American Rare Earths Limited ABN 83 003 453 503

ASX RELEASE

30 March 2023

American Rare Earths - 1.43 Billion Tonne JORC Resource

Halleck Creek is positioning itself to be one of the largest rare earth projects in the United States to become a key asset for the domestic supply chain

Highlights

- Total JORC Resource of 1.43 billion tonnes
- Estimated 4.73 million tonnes of contained Total Rare Earth Oxides (TREO) in-situ
- Mineralisation contains approximately 24% highly valuable magnetic rare earth elements
- TREO average grade of 3,309 ppm
- Significant upside potential with 75% of district yet to be drilled and deposit remaining open at depth
- Deposit is from surface to at least 150 metres with consistent grades throughout making it ideal for large scale, low-cost open pit mining
- Environmentally friendly with low levels of penalty thorium and uranium elements

The Board of American Rare Earths (ASX: ARR | OTCQB: ARRNF | FSE: 1BHA) the **'Company'** is pleased to announce a maiden JORC Resource estimate for its Halleck Creek Rare Earths Project **'Halleck Creek'** in Wyoming, USA. The JORC Resource at Halleck Creek is 1.43 billion tonnes with an average TREO grade of 3,309 ppm, with an average NdPr grade of 734 ppm. The JORC Resource estimate has exceeded expectations in comparison to previous exploration target estimates and has demonstrated the Halleck Creek project has the potential to become a world class deposit. The resource area covers 384 hectares (949 acres) of the total exploration area held by the Company which totals 3,304 hectares (8,165 acres), meaning the JORC Resource has the potential to greatly increase with future exploration campaigns.

Chief Executive Officer and Managing Director Chris Gibbs said*: "These results confirm the Company has a strategically significant rare earth asset critically, in the United States, which should enable the largest economy in the world to reduce its dependence on China or other imported rare earths.*

"Global magnetic rare earth oxide consumption is forecast to more than treble by 2035. The US government has made no secret that it is seeking to onshore supply of all critical materials for supply chain and national security purposes. There is only one producing rare earth mine within the USA, the Mountain Pass mine in California. The USA needs a number of these mines to secure onshore supply of rare earths and we believe Halleck Creek is part of the future solution.

"With a maiden JORC Resource estimate of 1.43 billion tonnes this project is strategically significant, containing over 4.73 million tonnes of rare earth oxides. With only a quarter of the licence area drilled and remaining open at depth, the upside potential is significant. The Halleck Creek project is shaping up to be a strategic asset for the USA to supply rare earths for future generations".

Table 1 summarises estimated in-situ resources at Halleck Creek by resource area and category using a TREO cut-off of 1,500 ppm.

Table 1 - Estimated Rare Earth Resources at Halleck Creek

Resource Area	**Tonnes (millions)**			**Kg TREO (millions)**			**Kg NdPr (millions)**			**Grade (ppm)**	
	Indicated	**Inferred**	**Total**	**Indicated**	**Inferred**	**Total**	**Indicated**	**Inferred**	**Total**	**TREO**	**NdPr**
Overton Mountain	348	434	782	1,202	1,464	2,666	274	326	600	3,408	767
Red Mountain	274	373	647	907	1,158	2,065	202	248	450	3,190	695
Grand Total	**622**	**807**	**1,430**	**2,109**	**2,622**	**4,731**	**477**	**573**	**1,050**	**3,309**	**734**

Next Steps

Under the supervision of Wood PLC, one of the world's leading consulting and engineering companies, metallurgical test work is ongoing to optimise the process flow sheet. This includes bulk WHIMS and floatation test work which are well advanced, to assess the likely constituents of an upgraded concentrate product. Testing will commence immediately thereafter on the further upgrade of the concentrates via a leaching process. The metallurgical test work will provide the foundation for the Scoping Study scheduled for later this year. Additional exploration and development work also continues at Halleck Creek.

"This is an excellent outcome from our drilling program and a key step towards creating significant shareholder value. We are committed to growing our rare earth resources and developing our operations in the USA.

"This market announcement has been authorised for release to the market by the Board of American Rare Earths Limited."

Mr Creagh O'Connor
Chairman

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Competent Persons Statement:

The information in this document is based on company work performed in March 2023. This work was reviewed and approved for release by Mr Dwight Kinnes (Society of Mining Engineers #4063295RM) is employed by American Rare Earths and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 JORC Code. Mr Kinnes consents to the inclusion in the report of the matters based upon the information in the form and context in which it appears.

The information in this document that relates to Mineral Resource Estimate is based on information provided by Mr Alfred Gillman. Mr. Gillman is Principal of the independent consultant firm Odessa Resources Pty Ltd. Mr. Gillman is a Fellow and Chartered Professional of the Australian Institute of Mining and Metallurgy (AUSIMM) and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 JORC Code. Mr. Gillman consents to the inclusion in the report of the matters based upon the information in the form and context in which it appears.

The information in this report that relates to Halleck Creek Exploration Results were reviewed by Mr. Jim Guilinger. Mr. Guilinger is a Member of a Recognised Overseas Professional Organisation included in a list promulgated by the ASX (SME Registered Member of the Society of Mining, Metallurgy and Exploration Inc). Mr. Guilinger is Principal of independent consultants World Industrial Minerals LLC. Mr. Guilinger has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking 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. Guilinger consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

About American Rare Earths:

One of the only ASX listed companies with exposure to the rapidly expanding US market, American Rare Earths is developing its 100% owned magnet metals projects, Halleck Creek in Wyoming and La Paz in Arizona. Both have potential to be among the largest, rare earths deposits in North America. The Company is concurrently evaluating other exploration opportunities while collaborating with US Government supported R&D to develop a sustainable domestic supply chain for the renewable future.

Modelling Results & Technical Summary

The Company prepared a comprehensive technical report for entitled "Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project March 2023" for the Halleck Creek project. This report is attached as an Appendix and available from the ARR website (www.americanrareearths.com.au).

The Company contracted Odessa Resources Pty Ltd in Perth, Western Australia to build geological and rare earth grade models for Halleck Creek. With the addition of 38 RC holes to the existing nine core holes at Halleck Creek, the Company has 47 drill holes as known data points to determine a maiden JORC resource estimate.

Company geologists interpreted lithological units and modelling domains within the drill hole data. The modelling domains are the primary geological units being modelled by Odessa refer to Figure 1. Odessa Resources created a geological resource model using the Leapfrog Edge geological modelling tools. Resource estimates were divided into two primary blocks: Overton Mountain to the north and Red Mountain to the South. A cut-off grade of 1,500 ppm TREO was to the project. Indicated and Inferred resource classes of 100m, and 300m were determined from geostatistical modelling in Leapfrog.

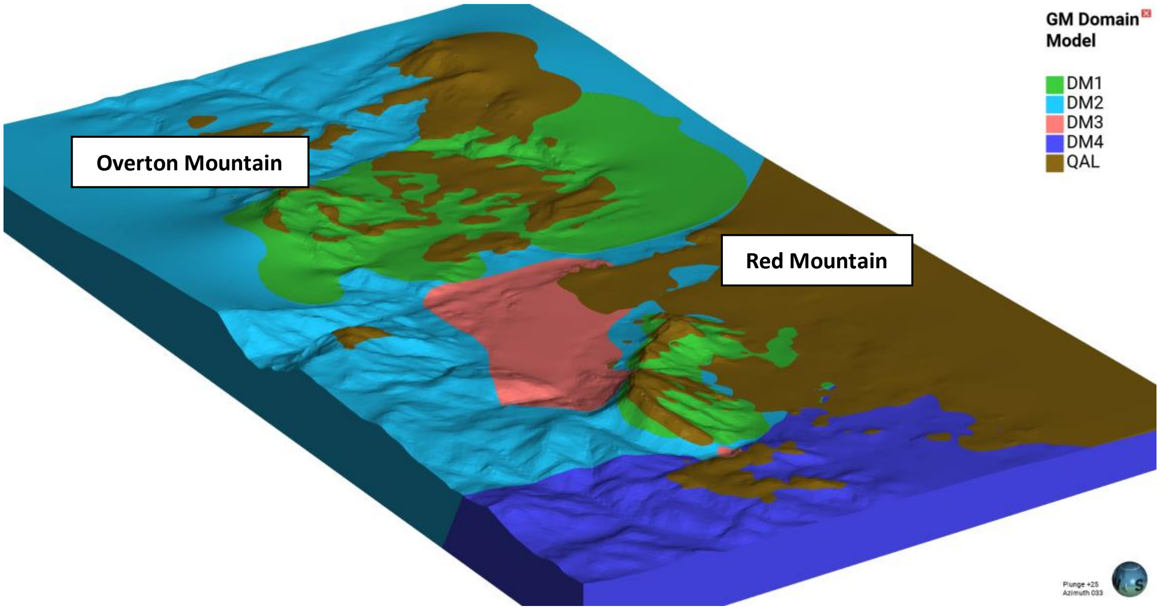

Figure 1 – Modelled geologic domains

The estimated in-place resource at Halleck Creek is 1.43 billion tonnes with an average TREO grade of 3,309 ppm , and an average NdPr grade of 734 ppm (Table 1). Total estimated indicated resources comprise approximately 43.5%, with 56.5% as inferred resources across the project area.

Table 2 shows the distribution, tonnage, and REO grade for each grade range. A cut-off grade of 1500 ppm TREO gives 1.43 billion tonnes with and average NdPr grade of 734 ppm. If using a cut-off grade of 500 ppm TREO, this would give 1.74 billion tonnes, with an average NdPr grade of 2928 ppm. Table 3 summarises estimated grades of light rare earth oxides, while Table 4 summarises estimated grades of heavy rare earth oxides.

Table 2 - Incremental and Cumulative Tonnage by Grade Range

Incremental Tonnes by Grade Range						Cumulative Tonnes by Grade Range					
Area/ Grade Range	Tonnes (millions)	Grade (ppm)				Area/ Grade Range	Cumulative Tonnes (millions)	Grade (ppm)			
		TREO	NdPr	LREO	HREO			TREO	NdPr	LREO	HREO
3000+	949	3,857	826	3,171	375	3000+	949	3857	826	3171	375
1500-3000	480	2,227	554	1,973	298	1500-3000	1,430	3309	734	2768	349
1000-1500	244	1,294	370	1,218	256	1000-1500	1,674	3015	681	2542	335
500-1000	68	804	378	1,043	197	500-1000	1,742	2928	669	2483	330
0-500	4	424	300	437	138	0-500	1,747	2922	668	2478	329

Table 3 - Estimated Light Rare Earth Oxides at Halleck Creek

Resource Category/		Light Rare Earth Oxides (ppm)				
Resource Area	Tonnes (millions)	La2O3	Ce2O3	Nd2O3	Pr6O11	Sm2O3
Indicated	**622**	**682**	**1,439**	**604**	**162**	**95**
Overton Mountain	348	721	1,502	621	167	95
Red Mountain	274	632	1,359	583	156	95
Inferred	**807**	**631**	**1,334**	**560**	**150**	**89**
Overton Mountain	434	691	1,439	591	159	92
Red Mountain	373	562	1,212	524	139	86
Grand Total	**1,430**	**653**	**1,379**	**579**	**155**	**92**

Table 4 - Estimated Heavy Rare Earth Oxides at Halleck Creek

Resource Category/		Heavy Rare Earth Oxides (ppm)									
Resource Area	Tonnes (millions)	Y2O3	Eu2O3	Gd2O3	Tb4O7	Dy2O3	Ho2O3	Er2O3	Tm2O3	Yb2O3	Lu2O3
Indicated	**622**	**186**	**12**	**65**	**9**	**42**	**7**	**19**	**2**	**15**	**2**
Overton Mountain	348	187	11	63	8	40	7	19	2	16	2
Red Mountain	274	184	12	68	9	43	8	19	2	15	2
Inferred	**807**	**177**	**11**	**61**	**8**	**39**	**7**	**18**	**2**	**14**	**2**
Overton Mountain	434	184	11	61	8	39	7	18	2	15	2
Red Mountain	373	169	12	62	8	39	7	17	2	14	2
Grand Total	**1,430**	**181**	**12**	**63**	**8**	**40**	**7**	**18**	**2**	**15**	**2**

Estimated Thorium and Uranium oxide values remain very low at Halleck Creek, refer to

Table 5. These penalty elements remain some of the lowest grades compared to any major rare earths project.

Table 5 - Estimated Thorium and Uranium Oxides at Halleck Creek

Resource Category/	Grade (ppm)	
Resource Area	ThO2	UO2
Indicated	**61**	**7**
Overton Mountain	62	7
Red Mountain	60	7
Inferred	**56**	**7**
Overton Mountain	59	7
Red Mountain	53	7
Grand Total	**58**	**7**

Appendix – JORC Table 1

JORC Code, 2012 Edition – Table 1 Halleck Creek Exploration Area

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 (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.*	ARR drilled 38 reverse circulation (RC) holes across the Halleck Creek Resource Claim area between October and December 2022. All holes were approximately 150 meters (492.13 feet) deep, with the exception of HC22-RM015 which went to a depth of 175.5 meters (576 feet). Chip samples were collected at 1.5-meter continuous intervals via rotary splitter. In March and April 2022, ARR drilled nine HQ-sized core holes across the Halleck Creek Resource claim area. All holes were approximately 350 ft with the exception of one hole which was terminated at 194 ft. Total drilled length of 3,008 ft (917 m). Rock core was divided into sample lengths of 5 ft (1.52 m) long and at key lithological breaks. An additional 71 surface rock samples were collected on claim areas east of the Overton Mountain study area. A total of 513 surface rock samples exist in the Halleck Creek database. Surface rock samples collected by ARR are logged, photographed and located using handheld GPS units. As part of reverse circulation (RC) exploration drilling at Halleck Creek. ARR collected XRF readings on RC chip samples. Elements included in XRF measurements include: Lanthanum, Cerium, Neodymium, and Praseodymium. ARR collected three XRF readings on each sample, then averaged the readings. Readings are performed at 25-meter intervals down each drill hole. These values

		are considered to be qualitative in natures and provide only rough indications of grade.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	Core recoveries and RQDs were calculated by ARR field geologists. For the April 2022 core drilling program
	Aspects of the determination of mineralisation that are Material to the Public Report.	The Red Mountain Pluton of the Halleck Creek Rare Earths Project is a distinctly layered monzonitic to syenitic body which exhibits significant and widespread REE enrichment. Enrichment is dependent on allanite abundance, a sorosilicate of the epidote group, which is most abundant within the clinopyroxene quartz monzonite. However, lower levels of REE enrichment can be found in other RMP units which notably include the fayalite monzonite and the biotite hornblende quartz syenite.
	In cases where 'industry standard' work has been done, this would be relatively simple (e.g. '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 (e.g. submarine nodules) may warrant disclosure of detailed information.	Reverse circulation rock chip samples were collected at 1.5-meter continuous intervals via rotary splitter. For each interval chip samples were placed in labelled sample bags weighing between 1-2kg. A 0.5-1kg sample was collected for reserve analysis and logging. Chip samples were also placed into chip trays with 20 slots for logging and XRF analysis. Rock core samples 5 ft (1.52 m) long are being fillet cut. The fillet cuts are being pulverised and sampled for 60 elements including rare earth elements using ICP-MS and industry standards. A select number of samples are additionally being assayed for whole rock geochemistry. American Assay Labs in Sparks, NV is performed the analyses.

		RC chip samples were sent to ALS labs in Twin Falls, ID for preparation and forwarded on to ALS labs in Vancouver, BC for ICP-MS analysis. ALS analysis: ME-MS81 The rock samples pulverised and analysed for 48 elements, including rare earth elements using ICP-MS. American Assay Labs in Sparks, NV is performed the analyses.
Drilling techniques	*Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or another type, whether the core is oriented and if so, by what method, etc.).*	A Schraam T-450 reverse circulation drill rig was used to drill all 38 RC drill holes. A continuous rotary sample splitter was used to collect the RC samples at 1.5m intervals. Core: HQ, diamond tip, 5-ft runs, unoriented. Total drilled depth of 3,008 ft (917 m).
Drill sample recovery	*Method of recording and assessing core and chip sample recoveries and results assessed.*	A continuous rotary sample splitter was used to collect the RC samples at 1.5m intervals. All drill core was visually logged, measured, and photographed by ARR geologists. Drill core was collected in lengths (runs) of 5 ft (1.52 m). Recoveries were calculated for each core run. Each rock sample was described, photographed with its location determined using handheld GPS.
	Measures are taken to maximise sample recovery and ensure the representative nature of the samples.	Reverse circulation rock chip samples were collected at 1.5-meter continuous intervals via rotary splitter. For each interval chip samples were placed in labelled sample bags weighing between 1-2kg. A 0.5-1kg sample was collected for reserve analysis and logging. Chip samples were also placed into chip trays with 20 slots for logging and XRF analysis. All core and associated samples were immediately placed in core boxes.
	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.	Recoveries were very high in competent rock. No loss or gain of grade or grade bias related to recovery

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.*	All RC samples were visually logged by ARR geologists from chip trays using 10x binocular microscopes. Samples at 25m intervals were photos and analysed using an Olympus Vanta handheld XRF analyser in triplicate. Lanthanum, Cerium, Neodymium, and Praseodymium were analysed via XRF. All drill core was visually logged, measured, and photographed by ARR geologists. Drill core was collected in lengths (runs) of 5 feet (1.52m). ARR geologists calculated recoveries for each core run. ARR geologists logged lithology, various types of alteration and mineralisation, fractures, fracture conditions, and RQD.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.	RC samples and logging is quantitative in nature. Chip samples are stored in secure sample trays. Chip samples were photographed and 25m intervals. Core logging is quantitative in nature. All core was photographed.
	The total length and percentage of the relevant intersections logged.	All RC samples were visually logged by ARR geologists for each 1.5-meter continuous sample. All drill core was visually logged, measured, and photographed by ARR geologists. Drill core was collected in lengths (runs) of 5 feet (1.52m). ARR geologists calculated recoveries for each core run. ARR geologists logged lithology, various types of alteration and mineralisation, fractures, fracture conditions, and RQD.
Sub-sampling techniques and sample preparation	*If core, whether cut or sawn and whether quarter, half or all core taken.*	RC chip samples were not cut. Drill core was fillet cut by American Assay Labs, with approximately 1/3 of the core used for assay. The remaining core material will be kept in reserve by ARR in a secure location.
	If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.	Samples varied between wet and dry. The course crystalline nature of the deposit minimizes adverse effects of wet samples. Samples were rotary split during drilling and sample collection. ALS labs dried wet samples using their DRY-21 drying process.

	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	RC samples were taken from pulverize splits of up to 250 g to better than 85 % passing minus 75 microns. All core samples were dry. Sample preparation: 1kg samples split to 250g for pulverising to -75 microns. Sample analysis: 0.5g charge assayed by ICP-MS technique. Both sampling methods are considered appropriate for the type of material collected and are considered industry standard.
	Quality control procedures adopted for all sub-sampling stages to maximise the representivity of samples.	Section 12.1 above outlines a detailed description of Q/Qc protocols used by ARR. ARR submitted CRM sample blanks, CRM standard REE samples from CND Labs and duplicate samples for analysis. Blank samples were added one for every 10 core samples, REE samples were added one for every 25 core samples, and Duplicate samples were added one per every 25 core samples.
	Measures are taken to ensure that the sampling is representative of the in situ material collected, including, for instance, results for field duplicate/second-half sampling.	RC samples were collected using a continuous feed rotary split sampler. Fillet cuts along the entire length of all core are representative of the in-situ material.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	Allanite is generally well distributed across the core and the sample sizes are representative of the fine grain size of the Allanite.
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.*	ALS uses a 5-acid digestion and 32 elements by lithium borate fusion and ICP-MS (ME-MS81). For quantitative results of all elements, including those encapsulated in resistive minerals. These assays include all rare earth elements.

		AAL Labs uses 5-acid digestion and 48 element analysis including REE reported in ppm using method REE-5AO48 and whole-rock geochemical XRF analysis using method X-LIB15.
	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.	Samples at 25m intervals were photos and analysed using an Olympus Vanta handheld XRF analyser in triplicate. Lanthanum, Cerium, Neodymium, and Praseodymium were analysed. Simple average values of three XRF readings were calculated. No downhole geophysical tools used in the drilling program.
	Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	For the RC drilling, ARR submitted CRM sample blanks, CRM standard REE samples from CND Labs and duplicate samples for analysis. CRM and Blank samples were inserted alternately at 20 sample intervals. Core the core drilling, ARR submitted CRM sample blanks, CRM standard REE samples from CND Labs and duplicate samples for analysis. Blank samples were added one for every 10 core samples, REE samples were added one for every 25 core samples, and Duplicate samples were added one per every 25 core samples. Internal laboratory blanks and standards will additionally be inserted during analysis.
Verification of sampling and assaying	*The verification of significant intersections by either independent or alternative company personnel.*	RC chip samples have not yet been verified by independent personnel. Consulting company personnel have observed the assayed core samples. Company personnel sampled the entire length of each hole.
	The use of twinned holes.	No twinned holes were used.
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	Data entry was performed by ARR personnel and checked by ARR geologists. All field logs were scanned and uploaded to company file servers. All photographs of the core were also uploaded to the file server daily. Drilling data will be imported into the DHDB drill

		hole database. All scanned documents are cross-referenced and directly available from the database. Assay data from the RC samples was imported into the database directly from electronic spreadsheets sent to ARR from ALS. Core assay data was received electronically from AAL labs. These raw data as elements reported ppm were imported into the database with no adjustments.
	Discuss any adjustment to assay data.	Assay data is stored in the database in elemental form. Reporting of oxide values are calculated in the database using the molar mass of the element and the oxide.
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.*	RC drill holes have been located using handheld GPS units. Final surveys of hole locations will be performed by professional surveyors. Drill hole location is based on GPS coordinates +/- 10 ft (3 m) accuracy.
	Specification of the grid system used.	The grid system used to compile data was NAD83 Zone 13N.
	Quality and adequacy of topographic control.	Topography control is +/- 10 ft (3 m).
Data spacing and distribution	*Data spacing for reporting of Exploration Results.*	Both randomly spaced and localised clustering of drillholes.
	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	The drill hole data is at a sufficient spacing to determine a mineral resource or reserve.
	Whether sample compositing has been applied.	Each sample is the result of assaying a 5 ft interval of core. Composite assay values have not been calculated or applied.

Orientation of data in relation to geological structure	*Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.*	Mineralization at Halleck Creek is a function of fractional crystallization of allanite in syenitic rocks of the Red Mountain Pluton. Mineralization is not structurally controlled and exploration drilling to date does not reveal any preferential mineralization related to geologic structures. Therefore, orientation of drilling does not bias sampling.
	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.	Orientation of drilling does not bias sampling.
Sample security	*The measures are taken to ensure sample security.*	All RC chip samples were collected from the drill rigs and stored in a secured, locked facility. Sample pallets were shipped weekly, by bonded carrier, directly to ALS labs in Twin Falls, ID. Chains of custody were maintained at all times. All core was collected from the drill rig daily and stored in a secure, locked facility until the core was dispatched by bonded courier to American Assay Labs. Chains of custody were maintained at all times. All rock samples were in the direct control of company geologists until dispatched to American Assay Labs.
Audits or reviews	*The results of any audits or reviews of sampling techniques and data.*	No external audits or reviews have been conducted to date. However, sampling techniques are consistent with industry standards.

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.*	ARR acquired 5 unpatented federal lode claims on BLM US Federal Land totalling 71.6 acres (29 has) from Zenith Minerals, Ltd (Zenith). in 2021. 67 unpatented federal lode claims were staked by ARR that totalled 1193.3 acres (482 ha) in Summer 2021. ARR staked 182 unpatented federal lode claims in March 2022 covering an area of approximately 3,088 acres (1,250 ha). ARR staked 118 unpatented federal lode claims in November 2022 covering an area of approximately 2,113 acres (855 ha). As of December 31, 2022, ARR controlled 367 unpatented federal lode claims and 4 Wyoming State mineral licenses covering 8,165 acres (3,304 ha).
	The security of the tenure held at the time of reporting and any known impediments to obtaining a licence to operate in the area.	No impediments to holding the claims exist. To maintain the claims an annual holding fee of $165/claim ($11,880) is payable to the BLM. To maintain the State leases minimum rental payments of $1/acre for 1-5 years; $2/acre for 6-10 years; and $3/acre if held for 10 years or longer.
Exploration done by other parties	*Acknowledgment and appraisal of exploration by other parties.*	Prior to sampling by WIM on behalf of Blackfire Minerals and Zenith there was no previous sampling by any other groups within the ARR claim and Wyoming State Lease blocks.
Geology	*Deposit type, geological setting and style of mineralisation.*	The REE's occur within Allanite which occurs as a variable constituent of the Red Mountain Pluton. The occurrence can be characterised as a disseminated type rare earth deposit.
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:*	FTE DRILLING USA INC. of Mount Uniacke, Nova Scotia used a Schraam T-450 track mounted rig to drill 38 reverse circulation drill holes. Drill hole depths for 37 holes was 150m and one hole at 175.5m. Authentic Drilling from Kiowa, Colorado used both a track mounted and ATV mounted core rig to drill nine HQ diameter core holes. From March to April 2022, ARR drilled nine core holes across the Halleck Creek claim area. Drill holes ranged in depth from 194 to 352.5 ft with a total drilled length of 3,008 ft (917 m).

	easting and northing of the drill hole collar	Drill hole locations, depths and orientations are described in "Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project March 2023" available from the ARR website (www.americanrareearths.com.au).
	elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar	
	dip and azimuth of the hole	
	downhole 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.	No Drilling data has been excluded.
Data aggregation methods	*In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.*	Average Grade values were cut at minimum of TREO 1,500 ppm.
	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.	Assays are representative of each 5 ft (1.52 m) sample interval.
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalents used.

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 unknown and only the downhole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').*	Allanite mineralization observed at Halleck Creek occurs uniformly throughout the CQM and BHS rocks of within the Red Mountain Pluton. Therefore, the geometry of mineralisation does not vary with drill hole orientation or angle within homogeneous rock types.
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.*	Detailed maps reside in the detailed report "Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project March 2023" available from the ARR website (www.americanrareearths.com.au).
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 practised to avoid misleading reporting of Exploration Results.*	The latest exploration results reported in "Mapping and Surface Sampling Summary at the Halleck Creek Project Area: April 2022". All relevant information for this section can be found in Table 1 of the report entitled "Summary" of Maiden Exploration Drilling at the Halleck Creek Project Area", "May 2022.
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.*	In hand specimen this rock is a red colored, hard and dense granite with areas of localised fracturing. The rock shows significant iron staining and deep weathering. Microscopic description: In hand specimen the samples represent light colored, fairly coarse-grained granitic rock composed of visible secondary iron oxide, amphibole, opaques, clear quartz and pink to white colored feldspar. All of the specimens show moderate to strong weathering and fracturing. Allanite content is variable from trace to 2%. Rare Earths are found within the Allanite.

		Historical metallurgical testing consisted of concentrating the Allanite by both gravity and magnetic separation. The current program employs sequential high gradient magnetic separation and flotation to produce a concentrate suitable for downstream rare earth elements extraction.
Further work	*The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).*	Further drilling is planned to increase the area of the project, and to increase confidence levels of resources. Geological mapping and surface sampling will also be performed to define and prioritize drilling targets.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Additional drilling is planned in new exploration areas and to increase resource confidence levels.

Section 3 Estimation and Reporting of Mineral Resources

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.*	Drill hole data header, lithologic data checked by field geologists and by visual examination on maps and drill hole striplogs. Assay and Qa/Qc data were imported into the database directly from electronic spreadsheets provide by laboratories. Histograms graphical logs were also prepared and reviewed by ARR geologists.

Criteria	JORC Code explanation	Commentary
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.*	Mr. Dwight Kinnes visited the Halleck Creek site during the RC and core drilling projects. Mr. Jim Guilinger has not visited the site during the RC and core drilling projects. ARR will facilitate a site visit during the 2023 calendar year. Mr. Alf Gillman has not visited the site during the RC and core drilling projects. Mr. Gillman resides in Perth, Western Australia. Site visits to the project have so far been logistically difficult and very expensive.
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 and controlling Mineral Resource estimation.* *The factors affecting continuity both of grade and geology.*	The Halleck Creek RE deposit is contained with rocks of the Red Mountain Pluton. These rocks consist primarily of clinopyroxene quartz monzonite (CQM), and biotite hornblende syenite (BHS). These two lithologies are difficult to visually distinguish. However, the concentration of rare earth elements is observable between lithologies. Rocks of the Elmers Rock Greenstone Belt (ERGB) and the Sybille (Syb) intrusion are easily distinguishable from rocks of the RMP. Thse rock units are essentially barren of rare earth elements. Therefore, the confidence in discerning rocks of the RMP from is high. The extent of the RMP relative to other units was outlined into modelling domains used for resource estimates. The distribution of allanite throughout CQM and BHS rocks of the RMP is generally uniform and is not structurally controlled. Potassic alternation observed does not appear to affect the grade of allanite throughout the deposit.

Criteria	JORC Code explanation	Commentary
Dimensions	*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.*	The Halleck Creek REE project currently contains two primary resource areas: the Red Mountain area and the Overton Mountain area. Resources also extend into the Bluegrass resource area. The Red Mountain resource area is bounded to the west by the ERGB, and to the south by the Syb. Further exploration is needed to determine the extent to the north and two the east. RC samples with TREO grades exceeding 1,500 ppm occurred at the base of 37 drill holes in the Red Mountain resource area extending down to depths of 150m with one hole extending to a depth of 175.5m. Therefore, ARR considers the Red Mountain resource area to be open at depth. The Overton Mountain resource area is bounded to the west by mineral claims, and therefore, remains open to the west. Lower grade BHS rocks occur at the northern end of Overton Mountain. Drilling data to the east and south indicate that the Overton Mountain resource area remains open across Bluegrass Creek. Like the Red Mountain drilling, RC samples at Overton Mountain contained TREO assay values exceeding 3,500 ppm to depths of 150m in 18 holes. Therefore, ARR considers the Overton Mountain resource area to be open at depth.
Estimation and modelling techniques	*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*	Odessa Resources created block models for Overton Mountain and Red Mountain using the Leapfrog geological modelling software.

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr>
<td></td>
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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.

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.

</td>
<td>

Overton Mountain Block Model Parameters

<table>
<tr><th>Block Model Parameter</th><th>Value</th></tr>
<tr><td>Parent Block Size</td><td>20m</td></tr>
<tr><td>Sub-block count (i, j, k)</td><td>4, 4, 4</td></tr>
<tr><td>Minimum block size (i, j, k)</td><td>5m ,5m 5m</td></tr>
<tr><td>Base point (x, y, z)</td><td>474000.00, 4634200.00, 2000.00</td></tr>
<tr><td>Boundary size (W x L x H)</td><td>2040.00, 2280.00, 400.00</td></tr>
<tr><td>Azimuth</td><td>0</td></tr>
<tr><td>Dip</td><td>0</td></tr>
<tr><td>Pitch</td><td>0</td></tr>
</table>

Red Mountain Block Model Parameters

<table>
<tr><th>Block Model Parameter</th><th>Value</th></tr>
<tr><td>Parent Block Size</td><td>20m</td></tr>
<tr><td>Sub-block count (i, j, k)</td><td>4, 4, 4</td></tr>
<tr><td>Minimum block size (i, j, k)</td><td>5m ,5m 5m</td></tr>
<tr><td>Base point (x, y, z)</td><td>474500.00, 4631600.00, 2000.00</td></tr>
<tr><td>Boundary size (W x L x H)</td><td>1660.00, 2240.00, 400.00</td></tr>
<tr><td>Azimuth</td><td>0</td></tr>
<tr><td>Dip</td><td>0</td></tr>
<tr><td>Pitch</td><td>0</td></tr>
</table>

The block models contain attributes pertaining to resource block, resource category, grade class, geologic domain and numerical attributes for TREO, rare earth oxides of all rare earth elements we well as thorium and uranium.

Geological domains focused on CQM and BHS lithologies provided control of resource block boundaries along with variography.

</td>
</tr>
</table>

Criteria	JORC Code explanation	Commentary
Moisture	*Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.*	Tonnages are based on dry basis.
Cut-off parameters	*The basis of the adopted cut-off grade(s) or quality parameters applied.*	Currently a subjective cut-off grade of 1,500 ppm TREO was applied to reported resource estimates. Ongoing metallurgical testwork and upcoming conceptual planning will provide input to determine a net smelter return.
Mining factors or assumptions	*Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining 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.*	No mine plan or design has been prepared at this stage however the shallow nature of the deposit assumes extraction by open pit mining methods.
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 rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.*	ARR is performing preliminary metallurgical testwork at Halleck Creek. At present ARR has not made any definitive metallurgical assumptions about the project.
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*	ARR is in the process of outlining environmental, social, and community impacts regarding the potential development of the project. These impacts are being included in conceptual designs of all facets of the project.

Criteria	JORC Code explanation	Commentary
	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.	
Bulk density	*Whether assumed or determined. If 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.*	Hydrological testwork performed by Nagrom lab shows that an average specific gravity of 2.70 represents the in-place ore material at Halleck Creek.
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 data).* *Whether the result appropriately reflects the Competent Person's view of the deposit.*	The basis of classification of mineral resources was based on geostatistical analysis of variograms of rare earth elements. The variographic results showed a resource boundary based on 90% of sill range of approximately 325-meters is applicable at Halleck Creek. These results do reflect the CP's view of the project.
Audits or reviews	*The results of any audits or reviews of Mineral Resource estimates.*	There have not been any audits of mineral resource estimates.
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*	Reported resources for Halleck Creek are in-place global estimates of tonnage and rare earth grade. The basis of classification of mineral resources was based

Criteria	JORC Code explanation	Commentary
	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 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.*	on geostatistical analysis of variograms of rare earth elements. Within the confines of the available data resource estimates should be

AMERICAN
RARE EARTHS
RESOURCING A RENEWABLE FUTURE

Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project

March 2023

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1 Summary

1.1 Project Synopsis

The Halleck Creek Rare Earth Elements Project is a rare earths exploration project located in the central Laramie Mountain range of southeastern Wyoming about 70 km northeast of Laramie, WY, and 30 km southwest of Wheatland, WY (Figure 1). American Rare Earths, Limited (ASX: ARR, OTCQB: ARRNF, FSE: 1BHA) (ARR or 'the Company'), through its wholly owned subsidiary Wyoming Rare (USA) Inc. controls 368 unpatented lode mining claims totaling 6,320 acres (2,558 ha). Additionally, ARR controls 4 Wyoming State Leases totaling 1,844 acres (746 ha).

ARR is actively performing detailed exploration mapping, surface sampling and exploration drilling at Halleck Creek for the purposes of developing mineable rare earth elements.

1.2 Location, Access, and Tenure

The Halleck Creek REE Project is located in the Central Laramie Mountains, approximately 70 km northeast of Laramie, and 30 km southwest of Wheatland, Wyoming. (Figure 1, Figure 2). Road access from Wheatland is via Wyoming State Highway 34 southwest for about 29 km and then an additional 10 km west on a County maintained gravel road number 720.

The Burlington Northern Santa Fe railroad mainline runs through the town of Wheatland, Wy. Interstate 25 also runs through the town of Wheatland. These transportation corridors link Wheatland to the entire United States.

Residential power runs along county road 720 through the project area. A 46kv substation is located along highway 34 and is approximately 3.7 km from the western side of Halleck Creek state mineral leases.

The climate is semi-arid and continental. The region experiences four seasons and is drier and windier in comparison to most of the United States with greater temperature extremes. Fall is the mildest time of year with little moisture and generally warm days. The prevailing vegetation consists of prairie grasses and sage brush.

The local economy is based largely on tourism and ranching. The town of Wheatland (pop. 3560; 39 km east by road) offers modest facilities including food, lodging, and fuel. Cell phone coverage is available throughout most of the area, including limited portions of the claim block. The I-25 freeway north-south transportation corridor passes through the town of Wheatland. A major east-west rail and I-80 freeway route passes through the town of Laramie located to the southwest of the property.

Wyoming Rare (USA) Inc. a wholly owned subsidiary of Western Rare Earths, Inc. who is in turn a wholly owned subsidiary of ARR controls 368 unpatented lode mining claims totaling 6,320 acres (2,558 ha) across the Halleck Creek Project area (Figure 4). ARR controls an additional 4 Wyoming State Mineral Leases which total 1,844 acres (745 ha).

Total mineral control held by ARR in the Halleck Creek district is 8,165 acres (3,304 ha).

1.3 History

During the 1950s uranium prospecting rush, a number of Rare Earth Element (REE), thorium, and uranium occurrences were discovered in nearby pegmatite bodies and throughout the Laramie range. None of these were seriously explored (drilling, trenching, etc.) and apparently none were mined. The region has received little attention since.

In 2010 Blackfire minerals acquired the current set of State Leases ARR now controls for the purpose of REE exploration activities. Based on research completed by World Industrial Minerals (WIM) areas of anomalous REE values were discovered in Red Mountain as part of a PhD thesis (Anderson, 1995). Much of Red Mountain was covered by a State Mineral Lease that was then acquired. In 2011 after initial sampling was completed the project was subsequently dropped due to low REE prices.

In 2018, the project was re-activated by Zenith Minerals, Ltd. (Zenith), an Australian Mining Company who applied for the same State leases and also staked 5 claims on land in which the BLM owned both the surface and minerals. Additional sampling was completed both on the State Lease applications and the mining claims on the BLM land. ARR acquired the mining claims and state leases in 2020.

1.4 Geology

The 1.43 Ga Laramie anorthosite complex (LAC) is exposed in the Laramie Mountains, a Laramide aged uplift, in southeastern Wyoming. The LAC consists of three major anorthositic intrusions: the Chugwater anorthosite, the Poe Mountain anorthosite, and the Snow Creek anorthosite. These three bodies are rimmed by associated monzonitic intrusions which include the Sybille intrusion, the Maloin Ranch pluton, and the Red Mountain pluton. The Halleck Creek project area is located within the Red Mountain Pluton (RMP), which is the youngest and smallest monzonitic intrusion associated with the LAC (Anderson et al., 2003).

Four units comprise the RMP including a fayalite monzonite (FM), clinopyroxene quartz monzonite (CQM), biotite-hornblende quartz syenite (BHS), and the Red Mountain granite (RMG). Three types of dikes also occur within the pluton, including fine quartz monzonite (FQM), medium quartz monzonite (MQM), and biotite-hornblende monzonite (BHM). The FM, CQM, and BHS are nearly indistinguishable from one another in the field: they are equigranular, medium-grained, and red-weathering. However, their subtle differences can be discerned through detailed petrography and whole rock geochemistry. Most of the units in the pluton carry mantle-like Nd, Sr, and Pb isotopic compositions similar to the least contaminated anorthositic and ferrodioritic rocks of the LAC. This indicates that the pluton evolved mainly via differentiation (Anderson et al., 2003).

Anderson et al. (2003) discovered that REE concentrations in the pluton are hundreds of times greater than average crustal abundance for lanthanum, and that the rocks are LREE-enriched and relatively HREE depleted. Further petrographic work showed that REE abundances in the pluton primarily correlate with modal abundances of allanite. Allanite is a sorosilicate within the epidote group, which contains a significant number of REEs and as such has been identified as the primary REE host in the Halleck Creek Project area. The FM, CQM, and BHS contain disseminated quantities (up to 2 weight %) throughout the RMP. Preliminary work has also shown that the MQM dikes on the northern margin of the RMP exhibit similar REE enrichment patterns to rocks of the CQM.

1.5 Exploration

The Company completed its maiden exploration drilling program at the Halleck Creek Resource Area during March and April of 2022. The drilling program included nine core holes, with five drilled on Overton Mountain and four on Red Mountain. Total length drilled resulted in 3,008 ft (917 meters), and a total of 822 core samples were collected and sent to American Assay Labs, NV for assay.

In May of 2022, the Company conducted a surface sampling initiative on rock outcrop east of Bluegrass Creek in order to collect data from newly claimed areas. The most recent program included 71 surface samples, which were sent for analysis to American Assay Labs in Sparks, NV. Results from this initiative were very encouraging and show that REE mineralization extends to the east of the current resource area at Overton Mountain.

In the Fall of 2022, the Company completed a comprehensive RC drilling program to define maiden resource estimates at both the Red Mountain and Overton Mountain resource areas. The exploration program began on October 5th, 2022 and concluded on December 11th, 2022. A total of 38 RC holes were completed with a total length drilled of 5,574.5 m (18,292 ft). 18 holes were drilled on Red Mountain, and 20 were drilled on Overton Mountain. RC samples were collected at 1.5-meter intervals and sent to ALS Global in Twin Falls, ID for sample cataloguing and preparation, and were subsequently sent to Vancouver, BC for REE analysis.

1.6 Mineral Resources

The Halleck Creek resource estimates were divided into two primary resource blocks: Overton Mountain to the north and Red Mountain to the south.

The Indicated resource class falls within 100 meters of a drill hole location. The Inferred resource class occurs between 100 meters and 300 meters of a drill hole location. These distances were based on variography of Halleck Creek drilling and assay data.

A specific gravity of 2.70 was applied to volumes to determine tonnages.

Table 1 summarizes estimated global in-place resources at Halleck Creek by resource area and category using a TREO cut-off of 1,500 ppm. These in-place resource estimates have not been optimized within any open pit designs. The estimated in-place resource at Halleck Creek 1.43 billion tonnes with an average TREO grade of 3,309 ppm (0.33%), and an average NdPr grade of 734 ppm (0.07%). Mineral Resources are not Mineral Reserves and do not have demonstrated economic viability. There is no certainty that all or any part of the Mineral Resource will be converted into a Mineral Reserve.

Approximately 4,731 million Kg TREO material occurs at Halleck Creek (Table 1Table 31). Approximately 1,050 million Kg of NdPr material also occurs at Halleck Creek.

Table 1 - Estimated Rare Earth Resources at Halleck Creek

Resource Area	Tonnes (millions)			In-Place Kg TREO (millions)			In-Place Kg NdPr (millions)			Grade (ppm)	
	Indicated	Inferred	Total	Indicated	Inferred	Total	Indicated	Inferred	Total	TREO	NdPr
Overton Mountain	348	434	782	1,202	1,464	2,666	274	326	600	3,408	767
Red Mountain	274	373	647	907	1,158	2,065	202	248	450	3,190	695
Grand Total	**622**	**807**	**1,430**	**2,109**	**2,622**	**4,731**	**477**	**573**	**1,050**	**3,309**	**734**

Table 2 summarizes the estimated light rare earth oxides at Halleck Creek. The table shows elevated Nd and Pr. Table 3 summarizes the estimated heavy rare earth oxides at Halleck Creek. Most of the heavy rare earth oxides are present, but at lower concentrations.

Table 2 - Estimated Light Rare Earth Oxides at Halleck Creek

Resource Category/	In-Place	Light Rare Earth Oxides (ppm)				
Resource Area	**Tonnes (millions)**	**La2O3**	**Ce2O3**	**Nd2O3**	**Pr6O11**	**Sm2O3**
Indicated	**622**	**682**	**1,439**	**604**	**162**	**95**
Overton Mountain	348	721	1,502	621	167	95
Red Mountain	274	632	1,359	583	156	95
Inferred	**807**	**631**	**1,334**	**560**	**150**	**89**
Overton Mountain	434	691	1,439	591	159	92
Red Mountain	373	562	1,212	524	139	86
Grand Total	**1,430**	**653**	**1,379**	**579**	**155**	**92**

Table 3 - Estimated Heavy Rare Earth Oxides at Halleck Creek

Resource Category/	In-Place	Heavy Rare Earth Oxides (ppm)									
Resource Area	**Tonnes (millions)**	**Y2O3**	**Eu2O3**	**Gd2O3**	**Tb4O7**	**Dy2O3**	**Ho2O3**	**Er2O3**	**Tm2O3**	**Yb2O3**	**Lu2O3**
Indicated	**622**	**186**	**12**	**65**	**9**	**42**	**7**	**19**	**2**	**15**	**2**
Overton Mountain	348	187	11	63	8	40	7	19	2	16	2
Red Mountain	274	184	12	68	9	43	8	19	2	15	2
Inferred	**807**	**177**	**11**	**61**	**8**	**39**	**7**	**18**	**2**	**14**	**2**
Overton Mountain	434	184	11	61	8	39	7	18	2	15	2
Red Mountain	373	169	12	62	8	39	7	17	2	14	2
Grand Total	**1,430**	**181**	**12**	**63**	**8**	**40**	**7**	**18**	**2**	**15**	**2**

The estimated content of penalty elements, ThO2 and UO2, remains very low at the Halleck Creek project, 58 ppm and 7 ppm, respectively (Table 4).

Table 4 - Estimated Thorium and Uranium Oxides at Halleck Creek

Resource Category/	Grade (ppm)	
Resource Area	**ThO2**	**UO2**
Indicated	**61**	**7**
Overton Mountain	62	7
Red Mountain	60	7
Inferred	**56**	**7**
Overton Mountain	59	7
Red Mountain	53	7
Grand Total	**58**	**7**

1.7 Mining Methods

No mining methods or mining plans have been defined or calculated for the Halleck Creek Project. However, rare earth mineralization occurs at surface and continues to depths of at least 150 meters. Therefore, open pit, surface mining methods will be investigated for the Overton Mountain and Red Mountain resource areas.

1.8 Environmental And Permitting

This is an early state exploration project and as such no mining related environmental studies or permitting have been undertaken. Exploration permits have been applied for and obtained by the Wyoming Department of Environmental Quality, and the US Bureau of Land Management. The social impact of the project is currently unknown.

1.9 Markets

Presently, this project is still in the preliminary stages of exploration and development, and as such, market studies and potential off-take agreements have yet to be performed.

1.10 Project Economics

Presently, this project is still in the preliminary stages of exploration and development, and as such, definitive economic studies have yet to be performed.

1.11 Risks

ARR is developing a comprehensive risk register as part of conceptual studies being performed for the Halleck Creek project. The risk register outlines potential risks for each component of the project, the level of severity to adversely affect the project, and the primary strategy to mitigate each risk.

1.12 Conclusions And Recommendations

The Halleck Creek Rare Earths Project is unique in that it contains large areas of near surface, moderately high-grade values of critical, magnet component and heavy rare earths. ARR has claims and mineral leases covering the mineralized areas at Halleck Creek. Exploration drilling demonstrates that rare earth mineralization, in CQM and BHS rocks, is widespread, consistent at depth and that the deposit remains open at depth and toward additional prospect areas within the Halleck Creek district.

Mineralogical characterization confirmed that allanite is the primary rare earth bearing mineral at Halleck Creek. The mineralogy showed that allanite can be liberated from the coarse-grained material.

Preliminary metallurgical testwork determined the specific gravity of ore material at 2.7. Grinding and comminution results using SMC test work, Bond abrasion index testing, and Bond mill work testing indicate that Halleck Creek ore should be suitable for processing in a SAG-Ball mill configuration without the need for pebble crushing and could also be processed in a single stage SAG mill. Batch WHIMS testing showed that core material at a 500 microns P_{80} grind recovered more than 90% of Allanite from non-magnetic material. Continuous WHIMS testing and leach testing is ongoing.

Geologic domains were interpreted into 47 drill holes across Halleck Creek. Geological domain, lithology and grade models were created across Halleck Creek. Geostatistical analysis determined resource boundaries and indicated and inferred resource classes to 100-meters and 300-meters from drill holes, respectively.

Using the geological models, a maiden in-place resource of 1.43 billion tonnes with an average TREO grade of 3,309 ppm was compiled for Halleck Creek. The 1.43 billion tonne resource estimate at Halleck Creek provides ARR with a starting point to develop technical, social and economic components needed to evaluate the full value of Halleck Creek.

1.13 Continued Project Development

ARR is performing comprehensive conceptual studies with respect to community impact, mine design and mine planning, plant design and ore processing, mine dumps and tailings, commodity marketing, associated costs and financial modeling. These conceptual studies will lead to a preliminary economic assessment for Halleck Creek.

Plans for infill drilling to increase resource confidence and to provide baseline data for permitting activities are being developed. Detailed field plans for mapping and XRF analysis across the Halleck Creek claim area have been made for the summer of 2023.

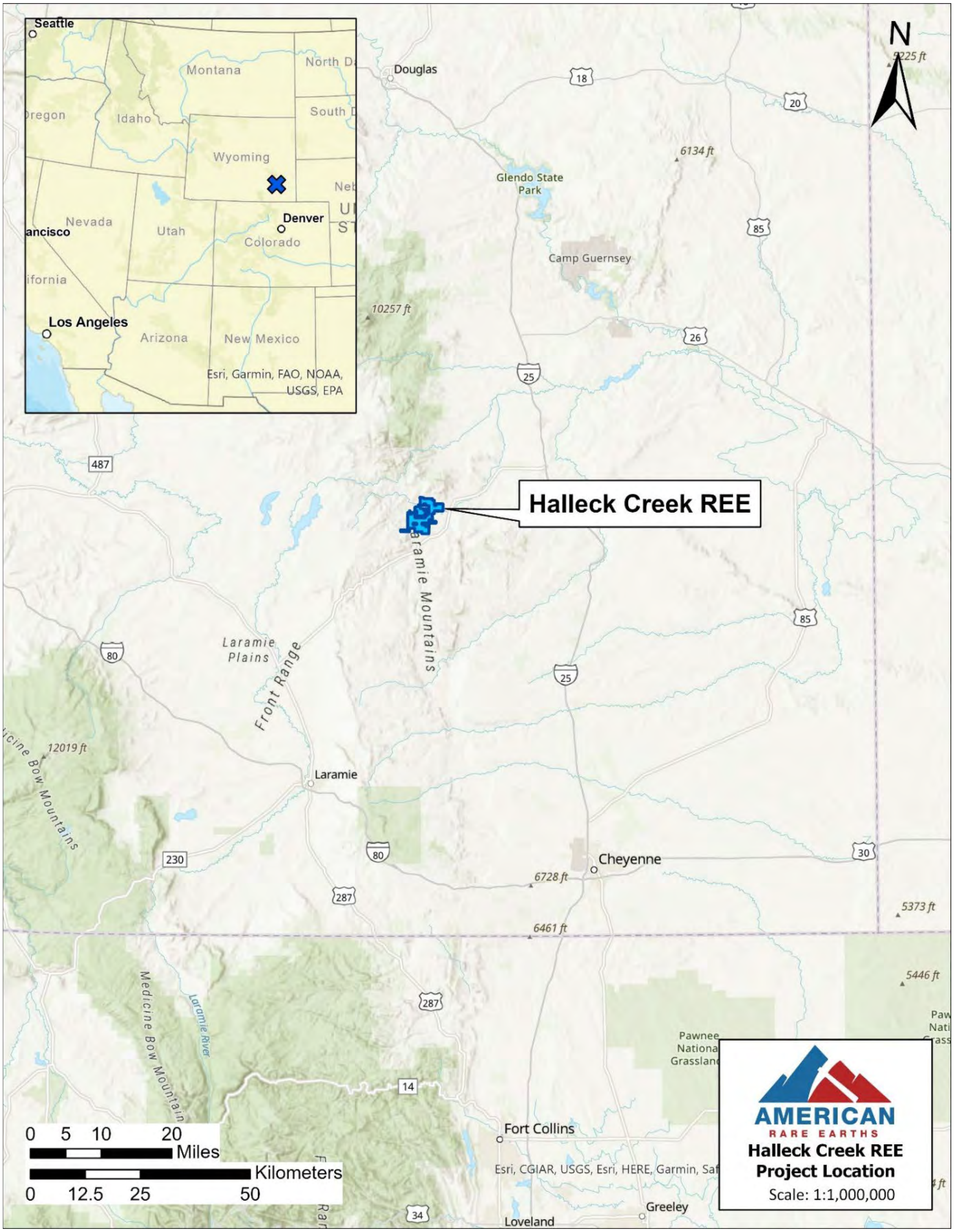


Figure 1 – Project Location

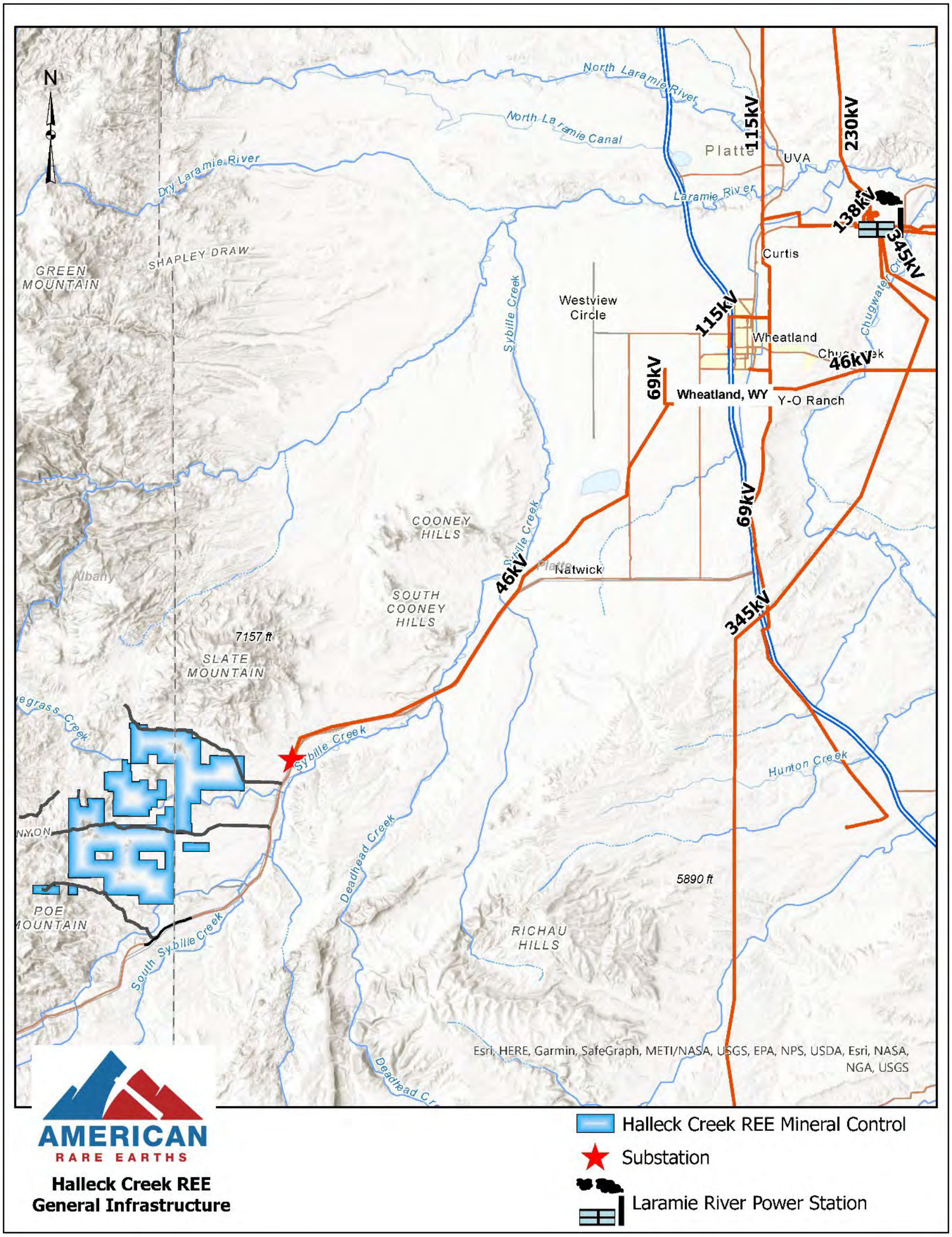


Figure 2 - General Infrastructure

2 Introduction

2.1 Terms Of Reference and Purpose of The Report

All measurements herein will be given in Metric system units (meters, metric tons, degrees centigrade, etc.) except where they are designated as Imperial units. All currency values are in United States Dollars except where designated otherwise. Also shown is a conversion table (Table 6) showing Rare Earth Elements converted to Rare Earth Oxides. Table 7 shows the conversion of uranium and thorium to oxides.

Table 5 - List of Abbreviations

Abbreviation	Description	Abbreviation	Description
°C	Degree Celsius	Ltd	Limited
°F	Degree Fahrenheit	M	Meter
ac	Acre	mm	Millimeter
AXS	Australian Stock Exchange	MREE	Magnet Rare Earths Elements
ATV	All-terrain vehicle	MREO	Magnet Rare Earth Oxides
BLM	Bureau of Land Management	mt	Metric ton
cm	Centimeter	ppm	Part per million
CREE	Critical Rare Earth Elements	REE	Rare Earths Element
CREO	Critical Rare Earth Oxides	REO	Rare Earth Oxides
ft	Foot	st	Short ton
‘	Feet	t	Metric ton
g	Gram	TREE	Total Rare Earths Elements
g/t	Gram per ton	TREO	Total Rare Earths Oxides
ha	Hectare	USGS	United States Geological Survey
HREE	Heavy Rare Earths Elements	WGS	Wyoming Geologic Survey
HREO	Heavy Rare Earths Oxides	WY	Wyoming
kg	Kilogram	Yr	Year
km	Kilometer	Gauss	unit of magnetic induction
LREE	Light Rare Earths Elements		
LREO	Light Rare Earths Oxides		

Table 6 – REE to REO Conversion and Type REO

Rare Earth Element	**Symbol**	**Heavy**	**Light**	**Critical**	**Magnet**	**Oxide**	**Conversion Factor***
		HREO	**LREO**	**CREO**	**MREO**		
Scandium	Sc					Sc_2O_3	1.5334
Lanthanum	La		X			La_2O_3	1.1728
Cerium	Ce		X			CeO_2	1.2284
Praseodymium	Pr		X		X	Pr_6O_{11}	1.2082
Neodymium	Nd		X	X	X	Nd_2O_3	1.1664
Samarium	Sm		X		X	Sm_2O_3	1.1596
Yttrium	Y	X		X		Y_2O_3	1.2699
Europium	Eu	X		X		Eu_2O_3	1.1579
Gadolinium	Gd	X				Gd_2O_3	1.1526
Terbium	Tb	X		X	X	Tb_4O_7	1.1762
Dysprosium	Dy	X		X	X	Dy_2O_3	1.1477
Holmium	Ho	X				Ho_2O_3	1.1455
Erbium	Er	X				Er_2O_3	1.1435
Thulium	Tm	X				Tm_2O_3	1.1421
Ytterbium	Yb	X				Yb_2O_3	1.1387
Lutetium	Lu	X				Lu_2O_3	1.1372

* PPM Element X Conversion Factor = PPM Oxide

[The factor is calculated by taking the formula weight divided by the atomic mass of the element within that formula. Example Dy_2O_3 formula weight is 372.997, and Dy atomic weight is 162.5. However, there are two Dy per unit (Dy_2O_3), so total Dy mass is 325 per unit. 372.997/325 = 1.1477]

Table 7 – Uranium and Thorium Conversion to Oxides

Element	Symbol	Oxide	Conversion Factor*
Uranium	U	U_3O_8	1.1792
Uranium	U	UO2	1.1344
Thorium	Th	ThO_2	1.1379

* PPM Element X Conversion Factor = PPM Oxide

The purpose of this report is to provide ARR, its investors and potential investors with a clear summary of the Company's resources. Included in this summary are recommendations for further exploration.

2.2 Qualifications of Qualified Persons

The Consultants preparing this Technical Report are specialists in the fields of geology, exploration, mineral resource estimation and classification, geotechnical, environmental, permitting, metallurgical testing, mineral processing, capital and operating cost estimation, and mineral economics.

None of the Consultants or any associates employed in the preparation of this Technical Report has any beneficial interest in American ARR or its subsidiary Wyoming Rare (USA) Inc. The Consultants are not insiders, associates, or affiliates of ARR.

Details of qualifications and consent of qualified persons can be found in Section 28.

2.3 Contributing Authors

Contributing authors include Company geologists Sara Stotter, Kayla Young, and Chief Technical Officer Dwight Kinnes.

2.4 Sources Of Information

The data in this Report comes from multiple sources. The data and information supplied herein are legal property of the Company. Chiefly, data was extracted and relied upon from the Wyoming Geological Survey and Academic Reports which are given in the Reference Section.

The Authors have reviewed, verified, interpreted, and analyzed all of the data presented in this Report.

It is believed that the underlying information contained herein is reliable, based on the systematic data verification procedures (including field examination of pertinent geologic features) performed by other Company geologists and myself.

The results and opinions expressed in this Report are conditional upon the aforementioned technical and legal information being current, accurate, and complete as of the date of this Report and the understanding that no information has been withheld that would affect the conclusion made herein.

2.5 Units Of Measure

Unless otherwise noted, the following measurement units, formats and systems are used throughout this Technical Report.

- Measurement Units: all references to measurement units use the System

International (SI, or metric) for measurement. The primary linear distance unit, unless otherwise noted, are metres (m).

- General Orientation: all references to orientation and coordinates in this report are presented as UTM.
- Currencies outlined in the Technical Report are stated in U.S. dollars (US$) unless otherwise noted.

3 Reliance on Other Experts

The Consultants' opinions contained herein are based on information provided to the Consultants by ARR throughout the course of the investigations. The Company relied on the following experts to aid in the completion of sections of this Technical Report.

ARR relied on Odessa Resources Pty Ltd (Odessa) perform geological modeling, grade modeling, geostatistical analysis, and to compile resource estimates.

ARR relied on World Industrial Minerals (WIM) to review the technical report.

ARR relied on DCM Science Laboratory, Inc in October of 2019 to conduct a petrographic analysis of four surfaces samples from the study area.

ARR relied on WWC Engineering to conduct a general hydrologic study of the Halleck Creek Resource Area in March of 2022.

ARR relied on SGS's Natural Resources division to complete a mineralogical characterization of core samples from the Halleck Creek Resource Area in December of 2022.

ARR relied on Wood, PLC from Perth Australia for sections pertaining to ongoing metallurgical characterization at Halleck Creek.

4 Property Description and Location

4.1 Location

The Halleck Creek REE Project is in the Central Laramie Mountains, approximately 70 km northeast of Laramie, a sparsely populated area of Albany and the Platte Counties in Southeastern Wyoming (Figure 1).

The project is comprised of 368 unpatented lode mining claims totaling 6,320 acres (2,558 ha) and are located as follows:

-
- Township 22 North, Range 71 West Sections 13, 23, 24, 25, 26, 35
- Township 22 North, Range 70 West Sections 07, 18, 19, 30, 31
- Township 21 North, Range 70 West Section 06
-

Albany County.

-
- Township 22 North, Range 70 West Sections 08, 17, 20, 29
-

Platte County.

-

Additionally, the Company controls 4 Wyoming State Mineral Leases totaling 1,844 acres (746 has) (Figure 4) and are located as Follows:

-
- Township 22 North, Range 70 West Sections 16, 28

Platte County.

-
- Township 22 North, Range 70 West Section 31
- Township 22 North, Range 71 West Sections 26, 34, 36
- Township 21 North, Range 70 West Sections Section 6
-

Albany County.

4.2 Surface Control

The surface lands within the Halleck Creek project area are predominantly privately owned, however a small portion of land in the region is administered by the Bureau of Land Management (BLM) (Figure 3).

4.3 Mineral Control

Most of the mineral lands within the Halleck Creek project area belong to the US Federal government, administered by the BLM.

4.3.1 Unpatented Federal Lode Claims

Wyoming Rare (USA) Inc. a wholly owned subsidiary of Western Rare Earths, Inc. who is in turn a wholly owned subsidiary of ARR controls 368 unpatented lode mining claims totaling 6,320 acres (2,558 ha) across the Halleck Creek Project area (Figure 4). ARR controls an additional 4 Wyoming State Mineral Leases which total 1,844 acres (745 ha).

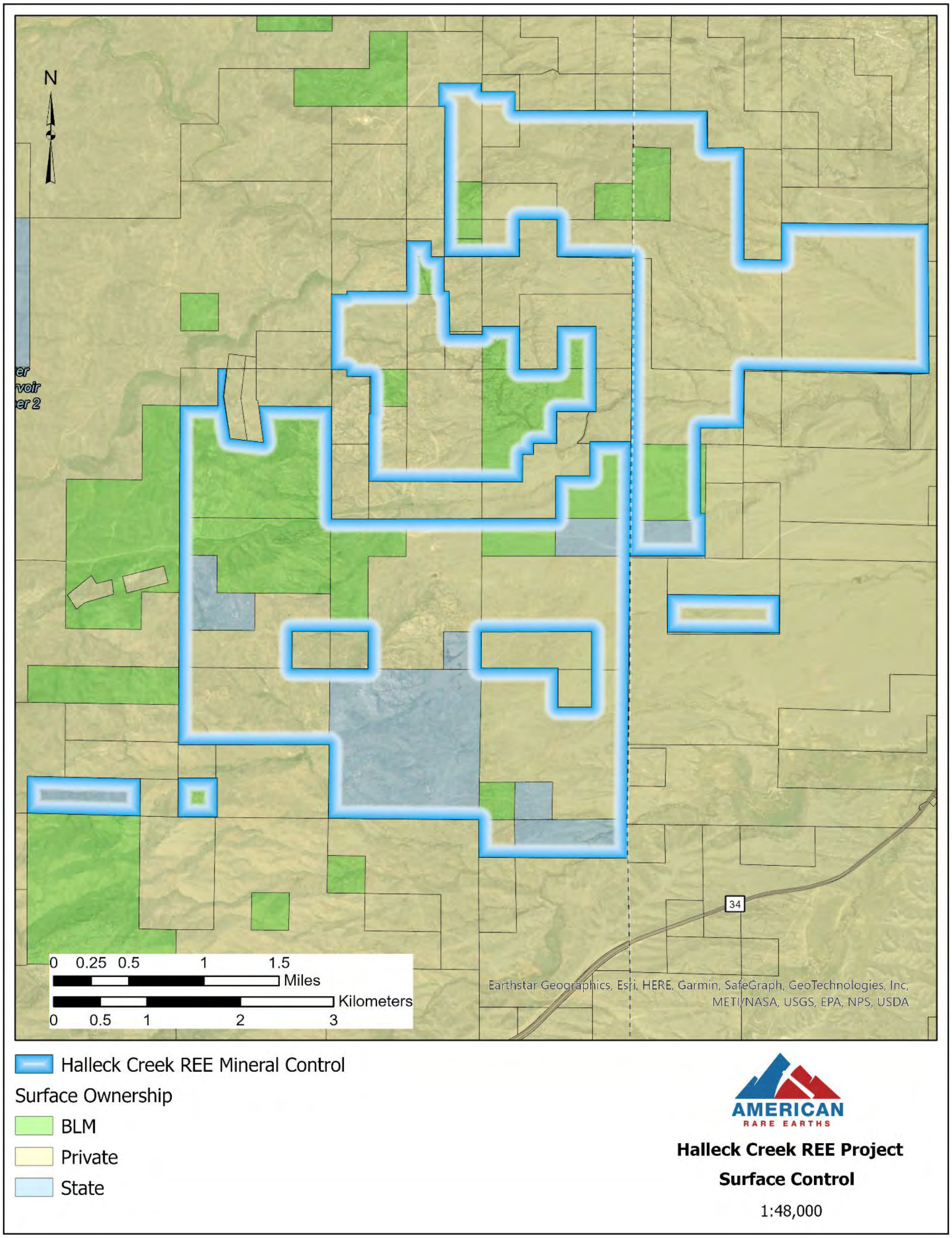
Total mineral control held by ARR in the Halleck Creek district is 8,165 acres (3,304 ha).

Table 8 - Summary of Halleck Mineral Claims and Leases

Mining tenements at the beginning of the quarter				Mining tenements acquired during the quarter		Mining tenements held at the end of the quarter		
Serial Number	**Claim Name**	**Claimant Name**	**Beneficial Interest %**	**Reference**	**Location**	**Serial Number**	**Claim Name**	**Claimant Name**
WY101766644 - WY101766648	REX-1 - REX-5	Wyoming Rare (USA) Inc	100%			WY101766644 - WY101766648	REX-1 - REX-5	Wyoming Rare (USA) Inc
WY105250218 - WY105250231	REX 10 - REX 23	Wyoming Rare (USA) Inc	100%			WY105250218 - WY105250231	REX 10 - REX 23	Wyoming Rare (USA) Inc
WY105260482 - WY105260501	REX 25 - REX 43	Wyoming Rare (USA) Inc	100%			WY105260482 - WY105260501	REX 25 - REX 43	Wyoming Rare (USA) Inc
WY105250232 - WY105250260	REX 44 - REX 72	Wyoming Rare (USA) Inc	100%			WY105250232 - WY105250260	REX 44 - REX 72	Wyoming Rare (USA) Inc
WY105772327 - WY105772255*	REX 75 - REX 165	Wyoming Rare (USA) Inc	100%			WY105772327 - WY105772255*	REX 75 - REX 165	Wyoming Rare (USA) Inc
WY105772203 - WY105772278*	REX 167 - REX 176	Wyoming Rare (USA) Inc	100%			WY105772203 - WY105772278*	REX 167 - REX 176	Wyoming Rare (USA) Inc
WY105772299 - WY105772326*	REX 178 - REX 257	Wyoming Rare (USA) Inc	100%			WY105772299 - WY105772326*	REX 178 - REX 257	Wyoming Rare (USA) Inc
WY105804752 - WY105804869	REX 258 - REX 375	Wyoming Rare (USA) Inc	100%			WY105804752 - WY105804869	REX 258 - REX 375	Wyoming Rare (USA) Inc
0-43568 – 0-43571	Halleck Creek	Wyoming Rare (USA) Inc	100%			0-43568 – 0-43571	Halleck Creek	Wyoming Rare (USA) Inc

*Non-inclusive range

Federal unpatented lode claims can be held in perpetuity provided an annual claim holding fee of $165.00 per claim is paid on or before September 1 of each calendar year the claims are held. Failure to pay this annual holding cost or paying late will result in the voiding of the claim. Additionally, claims must be recorded annually in the County in which they were staked. The federal lode claims are located in Albany County and Platte County, Wyoming.



Earthstar Geographics, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

Figure 3 – Surface Ownership

Once claims are staked and fees paid, the claim holder has a right of access on the claims and the right to explore once all required exploration permitting requirements is met. Other than the right to explore and develop the claims for their mining content, the claim holder has no other rights to the property.

Other than failing to pay the annual holding costs or paying late, which results in voiding of the claims, there are no other significant factors and risks discussed in this report that may affect access, title, or the right to ability to perform work on the property.

4.3.2 Wyoming State Mineral Leases

Wyoming Rare (USA) Inc. a wholly owned subsidiary of Western Rare Earths, Inc. who is in turn a wholly owned subsidiary of ARR controls 4 additional Wyoming State Mining Leases:

Lease 0-43568 consisting of 640 acres located in T22N R70W Section 16 all in Platte County Wyoming

Lease 0-43569 consisting of 283.72 acres located in T22N R70W Section 29 NESW:N2SE; Section 31 SESW; T21N R70 W Section 6 Lot1:L2:L3 in Platte and Albany Counties Wyoming

Lease 0-43570 consisting of 640 acres located in T22N R71W Section 36 all in Albany County Wyoming

Lease 0-43571 consisting of 280 acres located in T22N R71W Section 25 SESE; T22N R71W; Section 26 SWNW:N2SW; T22N R71W Section 34 S2SW:SWSE Albany County Wyoming

State Lease acreage totals 1,842.73 acres (744.5 has). The initial rental fee for the 4 leases is $1/year for a total of $1,843.00.

The overall fee structure is as follows: One dollar ($1) per acre for the first through the fifth years; Two dollars ($2) per acre for the sixth through tenth years of the primary lease term and for any renewal year within a second ten (10) year term; Three dollars ($3) per acre for renewal for third ten-year term; Four dollars ($4) per acre for each year for renewals for a fourth ten (10) year term.

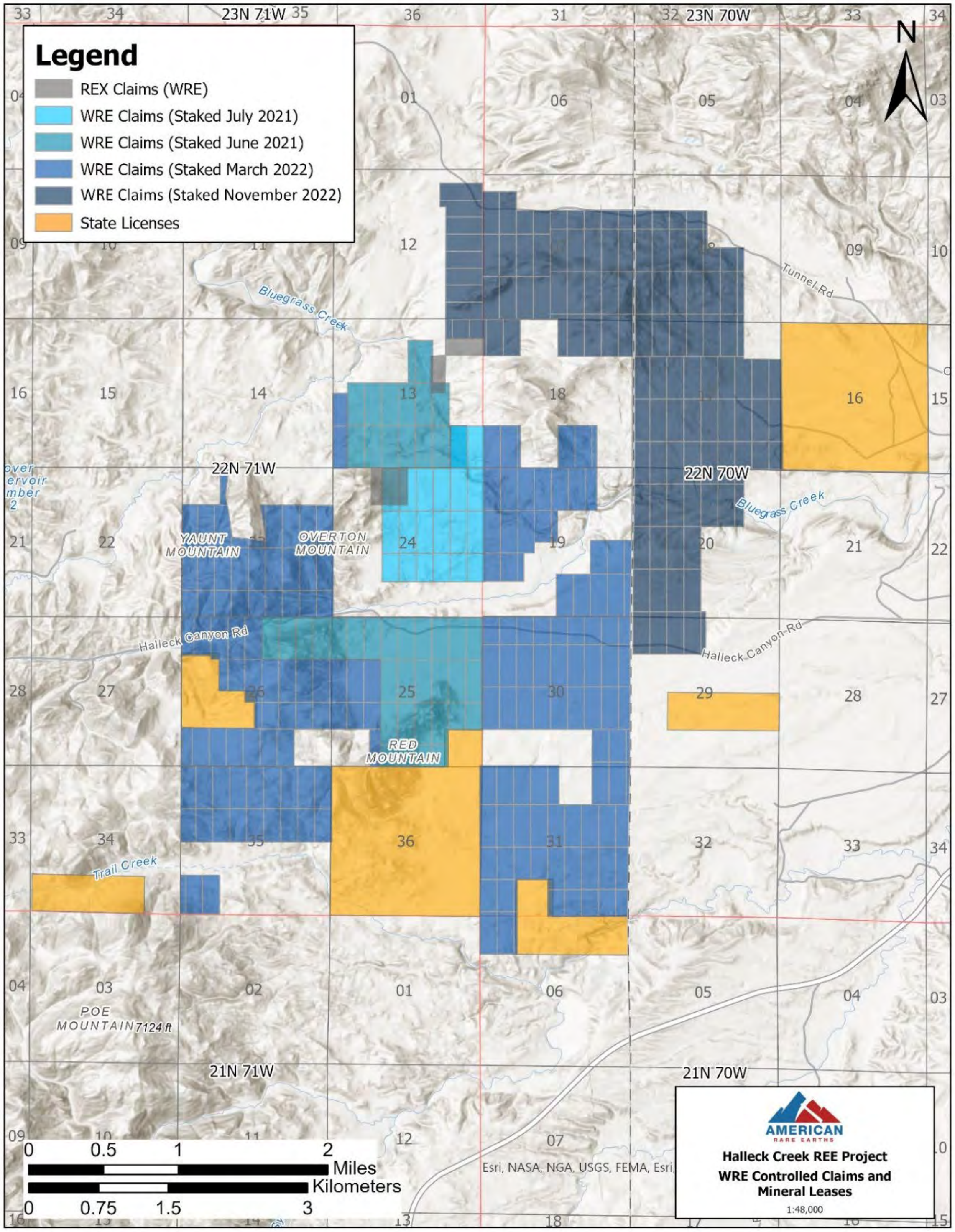


Figure 4 – Halleck Creek Claims and Mineral Leases

5 Accessibility, Climate, Local Resources, Infrastructure and Physiography

5.1 Accessibility

The Halleck Creek Project is located in eastern Albany County and western Platte County in southeastern Wyoming (Figure 1). By air, the Project is approximately 70 km northeast of Laramie, Wyoming and 30km southwest of Wheatland, Wyoming. Road access from Wheatland is via Wyoming State Highway 34 southwest for about 29 km and then an additional 10 km west on a County maintained gravel road number 720.

5.2 Climate

The climate is semi-arid and continental. The region experiences four seasons and is drier and windier in comparison to most of the United States with greater temperature extremes. Summers in Wyoming are warm and dry with July high temperatures averaging between 29 and 35 °C in most of the state. Winters are cold and moderately snowy averaging around 381 mm of moisture with temperatures ranging from -15 °C to +2 °C. Spring can be variably mild to very snowy. Fall is the mildest time of year with little moisture and generally warm days. The prevailing vegetation consists of pine trees, prairie grasses and sage brush.

5.3 Local Resources and Infrastructure

The local economy is based largely on tourism and ranching. The town of Wheatland (pop. 3560; 39 km east by road) offers modest facilities including food, lodging, and fuel. Cell phone coverage is available throughout most of the area, including limited portions of the claim block. The I-25 freeway north-south transportation corridor passes through the town of Wheatland. A major east-west rail and I-80 freeway route passes through the town of Laramie located to the southwest of the property.

5.4 Physiography

The project is located at the edge of the high plains of Wyoming characterized by short grass and sparse sagebrush. Elevations range from over 2,135 meters on mountain tops (Overton Mountain, Red Mountain) to 1,900 meters on average in the rolling hills portion of the project.

The project is located on split estate lands: public lands with the minerals administered by the U.S. Bureau of Land Management (BLM). The surface is privately owned with restricted access.

6 Project History and Prior Work

6.1 Prior Ownership

Prior ownership in the Halleck Creek project area was originally exercised by Blackfire Minerals in 2010, who were the first to acquire the current set of State mineral Leases ARR now controls. Blackfire Minerals let the leases lapse. In 2018, Zenith applied for the same Sate leases and staked 5 federal unpatented lode claims on BLM owned land and minerals. ARR acquired the mineral leases and BLM claims from Zenith in 2021.

6.2 Summary of Previous Exploration

In the 1960s or 1970s a small mine, extracting fuchsite (ornamental stone), operated to the northwest of the Halleck Creek claim area. Otherwise, no mining is known to have taken place in this portion of the Laramie range historically. During the 1950s uranium prospecting rush, a number of REE-thorium, and uranium occurrences were discovered in nearby pegmatite bodies and throughout the Laramie range. None of these were seriously explored (drilling, trenching, etc.) and apparently none were mined. The region has received little attention since.

In 2010 Blackfire minerals acquired the current set of State Leases ARR now controls for the purpose of REE exploration activities. Based on research completed by WIM, areas of anomalous REE values were discovered in Red Mountain as part of a PhD thesis (Anderson, 1983). Much of Red Mountain was covered by a State Mineral Lease that was subsequently acquired. Initial sampling was completed on this and other leases with results shown in Appendix E – Surface Sample Assay Data. In 2011 after initial sampling was completed the project was subsequently dropped due to low REE prices.

In 2018, the project was re-activated by Zenith who applied for the same State leases that Blackfire held and also staked 5 claims on land in which the BLM owned both the surface and minerals. Additional sampling was completed on both the State Lease applications and the mining claims on the BLM land. Results from 87 samples collected from 2019 showed broad areas of RE mineralization exceeding 2000 ppm TREO. Assay results from the 2018 sampling program are included in Appendix E – Surface Sample Assay Data.

6.3 Historical Resources

Previous exploration in the region was limited and never amounted to the development of a mineral resource.

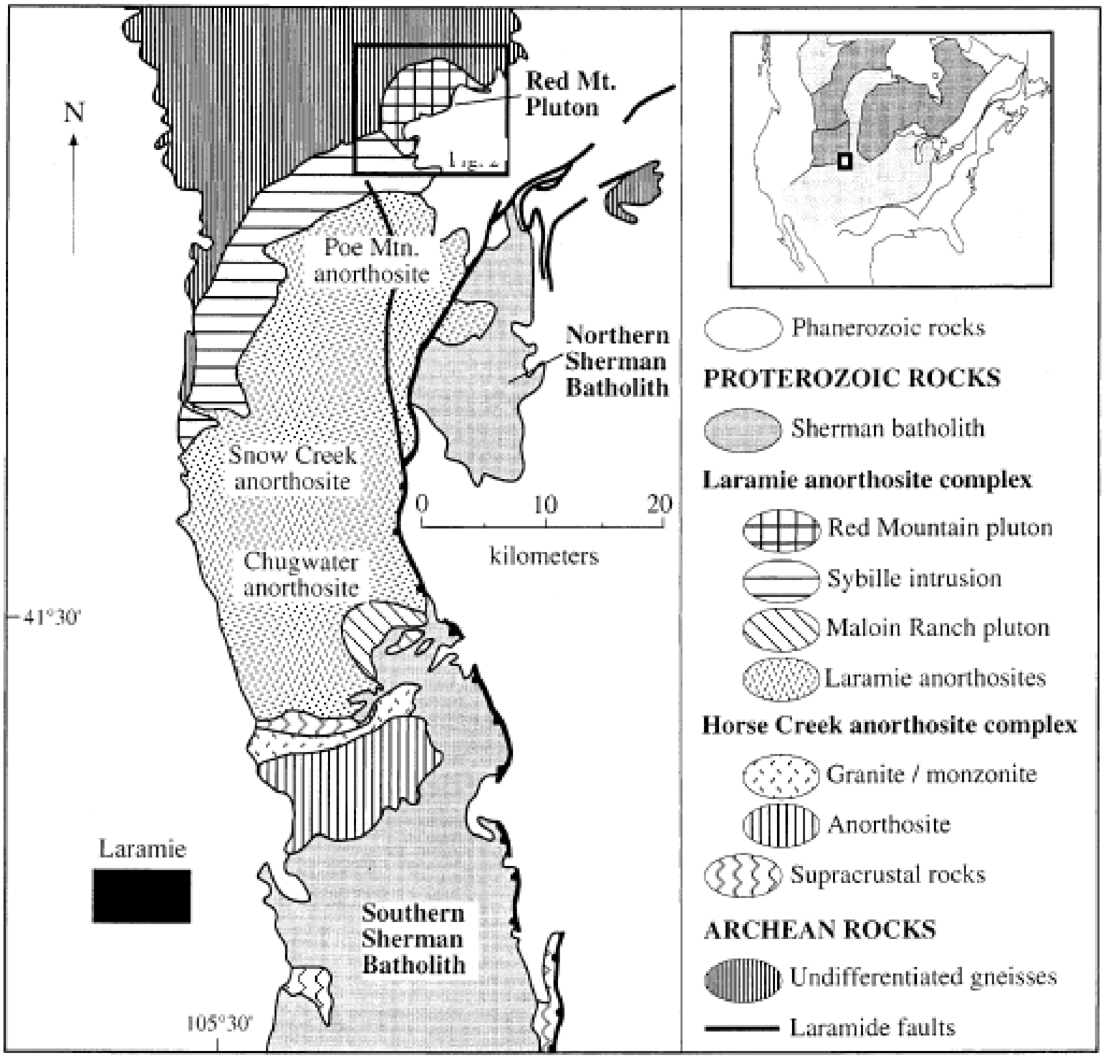
7 Geological Setting and Mineralization

7.1 Regional Stratigraphy or Lithology

The Halleck Creek Project area is located within the Laramie anorthosite complex (LAC), which represents the northernmost component of widespread 1.4 Ga magmatism in the western United States. The LAC massif was emplaced ca. 1437 ± 2.4 Ma and forms the core of the central Laramie Range, a Laramide aged uplift in southeastern Wyoming (Anderson et al., 2003).

The LAC was intruded into and obscures the trace of the Cheyenne Belt, which is a major terrane boundary that juxtaposes Archean rocks of the Wyoming Province to the north with accreted rocks of the Proterozoic Colorado Province to the south. This collisional event was known as the Medicine Bow Orogeny and occurred between 1.78-1.76 Ga. Along its north and northwest margins, the LAC intruded through the Archean Elmers Rock Greenstone belt (ERGB) and other Archean granitic gneisses and supracrustal schists. Along its southern margin, magmas navigated through predominantly Proterozoic rocks which at surface intrude the 1.76 Ga Horse Creek anorthosite complex. To the south and southeast, the LAC is bordered by the 1.43-1.44 Ga Sherman batholith (Anderson et al., 2003).

The LAC consists of three major anorthositic intrusions: the Chugwater anorthosite (ca. 1435.95 ± 0.687 Ma), the Poe Mountain anorthosite (1434.4 ± 0.5 Ma), and the Snow Creek anorthosite (ca. 1432-1434 Ma) (Frost et al., 2010). These three bodies are rimmed by associated monzonitic intrusions which include the Sybille intrusion (1435.7 ± 2.2 Ma), the Maloin Ranch pluton (1434.3 ± 2.1 Ma to 1435.6 ± 2.5 Ma), and the Red Mountain pluton (1431.3 ± 1.4 Ma) (Frost et al., 2010). Slightly predating the LAC is the northern Sherman batholith, which is composed of fayalite granite with minor monzodiorite. The southern lobe of the Sherman was contemporaneously emplaced with the final intrusions of the LAC (1437.8 ± 3.2 Ma to 1430.6 ± 2.5 Ma) and is dominated by biotite-hornblende granite with minor monzodiorite, minor fayalite granite, and minor pyroxene granite. The Halleck Creek project area is located within the Red Mountain pluton (RMP), which is the youngest and smallest monzonitic intrusion associated with the LAC (Anderson et al., 2003, Figure 5).



*From Anderson et al., 2003

Figure 5 – Generalized Geologic Map of southern Laramie Range

7.2 Regional Structure

The contacts of the Red Mountain Pluton with surrounding rock are strictly intrusive in nature. There are few country rock inclusions within the RMP, and the foliations in the surrounding Archean schists, particularly associated with the ERGB, wrap around the pluton. This suggests that the RMP was most likely emplaced by forcibly shouldering aside the country rock (Anderson et al., 2003) as part of late-stage development of the pluton.

7.3 Project Geology

7.3.1 Stratigraphy or Lithology

The four primary rock units that comprise the RMP include a fayalite monzonite (FM) (zircon dated at 1431.3 ± 1.4 Ma), clinopyroxene quartz monzonite (CQM), biotite-hornblende quartz syenite (BHS), and the Red Mountain granite (RMG). Three types of dikes also occur within the pluton, including fine quartz monzonite (FQM), medium quartz monzonite (MQM), and biotite-hornblende monzonite (BHM) (Figure 6 and Figure 7). The FM, CQM, and BHS are nearly indistinguishable from one another in the field: they are equigranular, medium-grained, and red-weathering. However, their subtle differences can be discerned through detailed petrography and whole rock geochemistry. The RMG, on the other hand, is the only unit that is readily identifiable in the field and forms a steeply dipping halo around the northern margin of the pluton. The rocks of the RMP are additionally easily distinguished from those of the adjacent Sybille intrusion: the Sybille is characterized by interlocking megacrystic feldspar with interspersed ferromagnesian minerals. The pluton is also geochemically distinct from both the Sybille and Sherman batholith due to its higher $FeO^t/(FeO^t + MgO)$, higher K2O, stronger enrichment in REEs, and at any given silica content it has lower abundances of TiO2, FeO^t, MgO, CaO, and P2O5 (Anderson et al., 2003).

Most of the units in the pluton carry mantle-like Nd, Sr, and Pb isotopic compositions similar to the least contaminated anorthositic and ferrodioritic rocks of the LAC, indicating that the pluton evolved mainly via differentiation (Anderson et al., 2003). Substantial crustal assimilation only occurred in the late dikes and the RMG.

While Red Mountain proper is dominantly composed of the primary REE-bearing clinopyroxene quartz monzonite, the northwest side of the project area is dominated by fayalite monzonite and metasedimentary rocks associated with the ERGB. Additionally, ERGB metasedimentary rocks are found to the north of Red Mountain, and Sybille monzosyenite can is located to the southwest and southeast of Red Mountain. The fayalite monzonite found at Red Mountain appears to grade into and may be interlayered with the CQM. Rocks of the ERGB can be found to the northwest of the fayalite monzonite as well as in an isolated raft north of Red Mountain near drill holes HC22-RM005 and HC22-RM006.

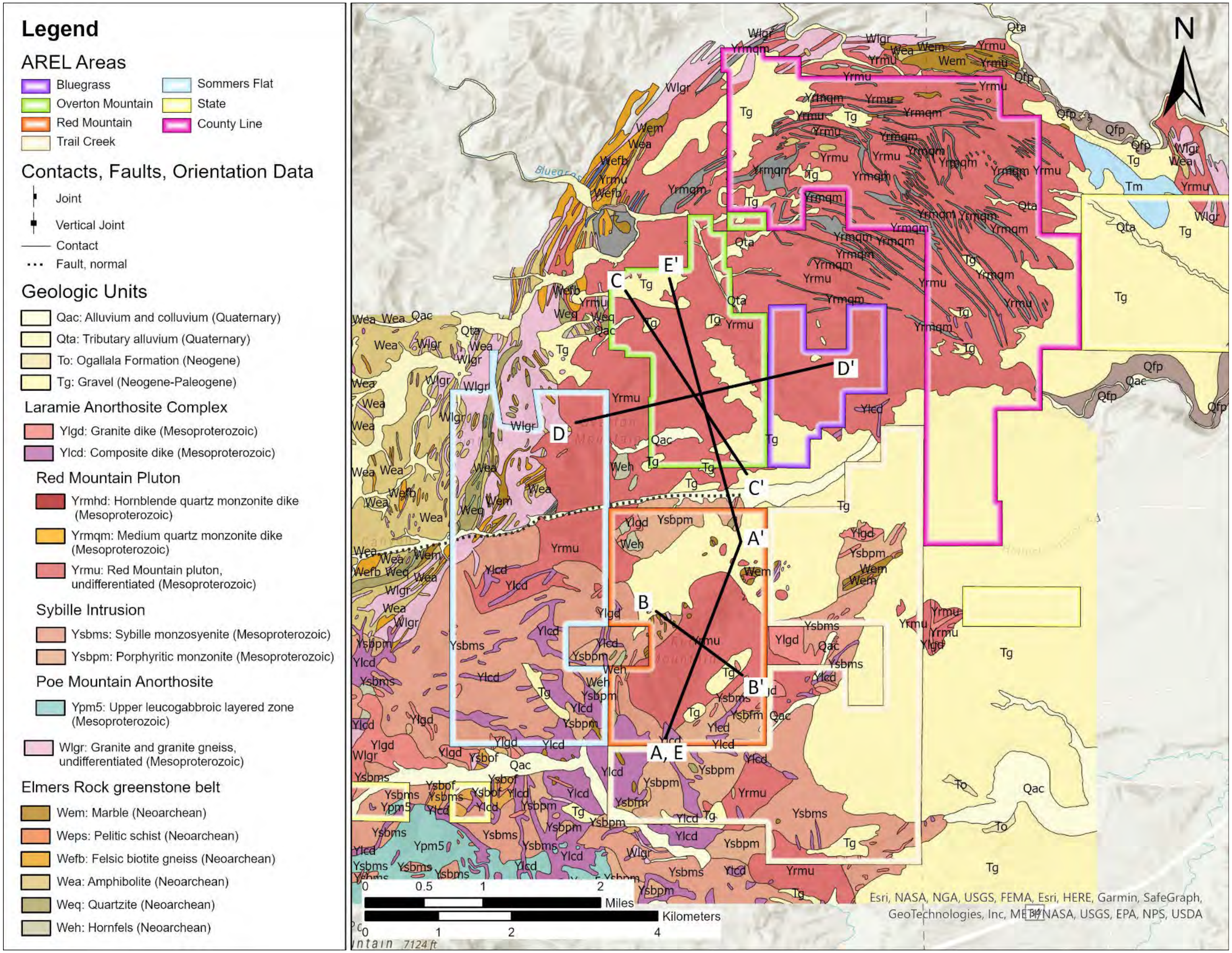


Figure 6 – Geologic Map of Halleck Creek Resource Area

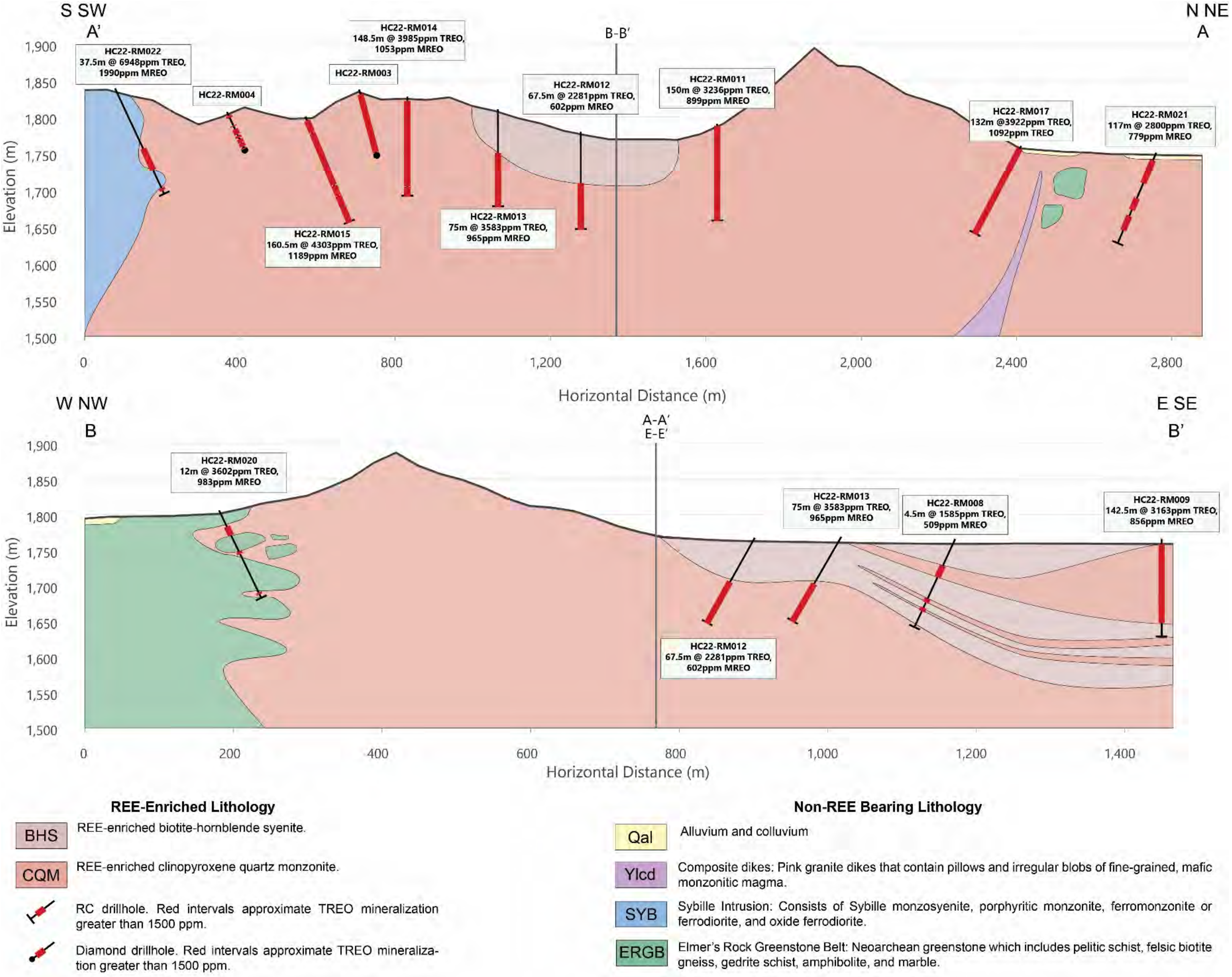


Figure 7 – Cross Sections from Red Mountain at Halleck Creek Resource Area

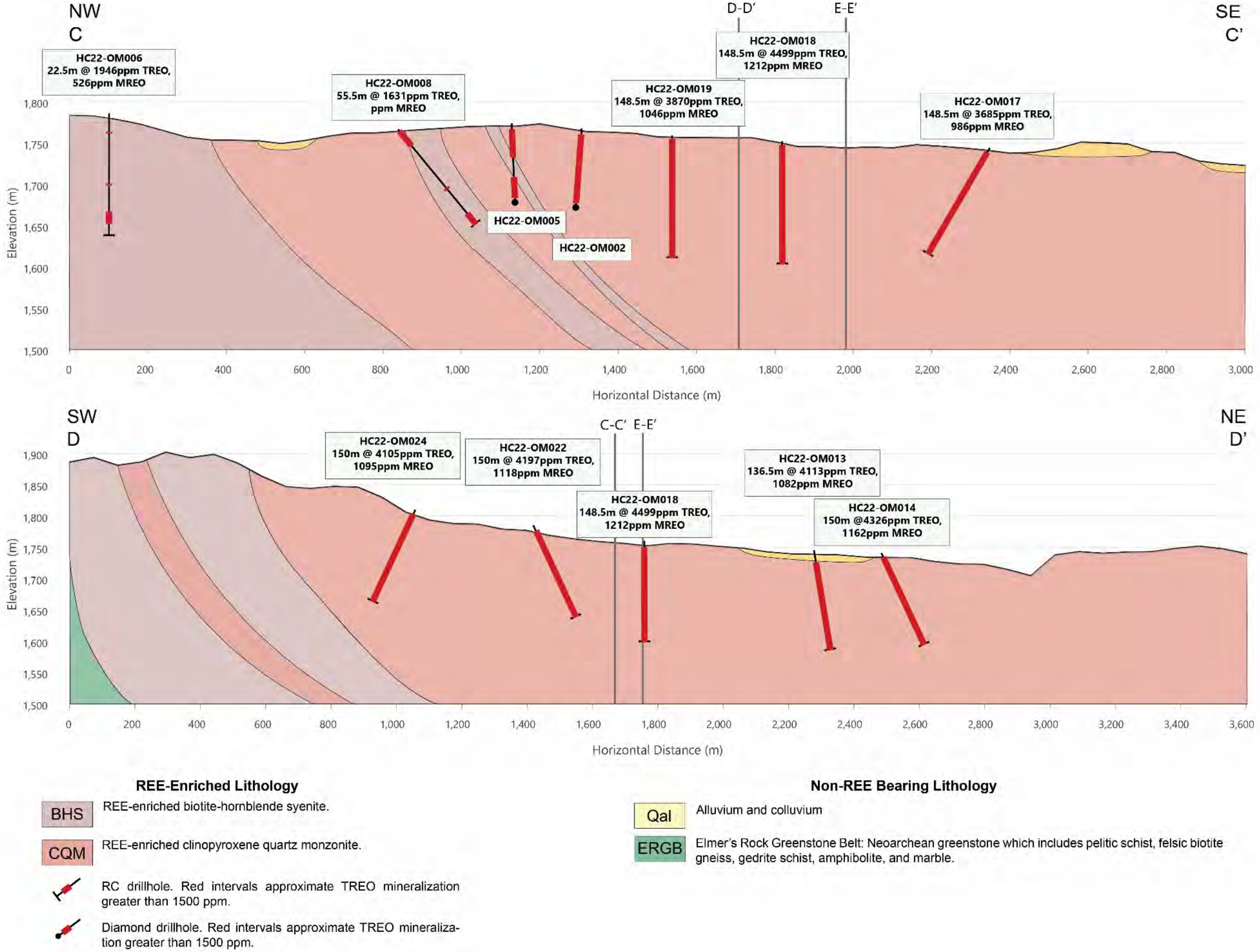


Figure 8 – Cross Sections from Overton Mountain at Halleck Creek Resource Area

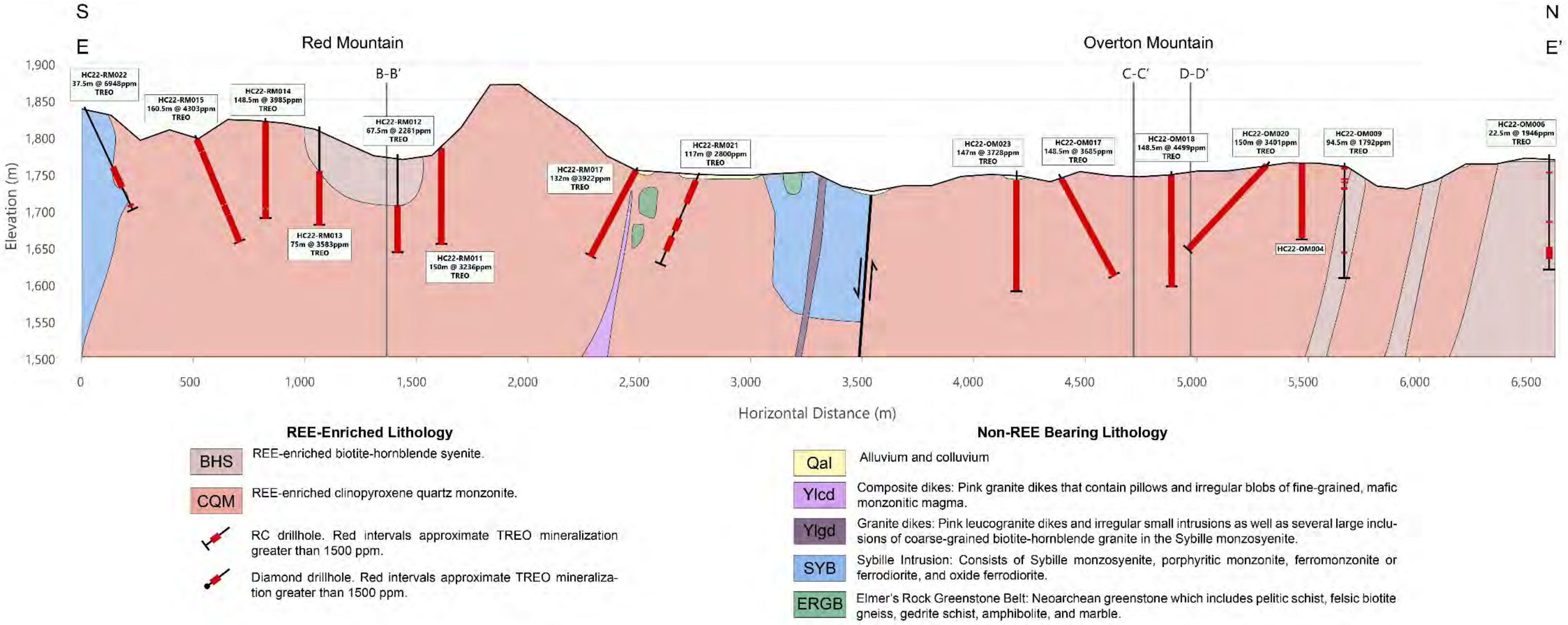


Figure 9 – Cross section from both Red Mountain and Overton Mountain at Halleck Creek Resource Area

The northern margin of the Overton Mountain project area suggests the presence of biotite hornblende quartz syenite based on preliminary petrography from the RC drilling program and markedly lower, yet still moderately enriched, TREO values. However, the project area is still dominated by the clinopyroxene quartz monzonite. Overton Mountain exhibits less lithologic variation than observed at Red Mountain.

7.4 Mineralization

Anderson, et. al. (2003) were the first to closely examine the rocks of the RMP and discovered that REE concentrations in the pluton are hundreds of times greater than average crustal abundance for lanthanum. They also discovered that the rocks are Light Rare Earth Element (LREE) enriched and relatively Heavy Rare Earth Element (HREE) depleted. Further petrographic work showed that REE abundances in the pluton primarily correlate with modal abundances of allanite.

Allanite is a sorosilicate within the epidote group, which contains a significant number of REEs in its primary mineral structure and as such has been identified as the primary REO host in the Halleck Creek Project area. The FM, CQM, and BHS contain disseminated quantities (historically up to 2 weight %) of allanite throughout the RMP. However, the RMG is generally devoid of allanite mineralization. Additional petrography proved that the CQM contains more allanite than the other two REE-bearing rock types, and as a result the CQM is considered the main ore bearing body. However, both the FM and BHS carry lower levels of REE enrichment. Both units were encountered in the Fall 2022 RC drilling program and showed TREE enrichment up to ~2500 ppm but exhibit on average ~1500 ppm. The FM and BHS are currently being investigated as a secondary REE-bearing resource. Preliminary work has also shown that the MQM dikes on the northern margin of the RMP exhibit similar REE enrichment patterns to rocks of the CQM. This will also require additional petrographic and geochemical work to determine the extent of mineralization within these features. Apatite within the main REE-bearing units contain REE oxide abundances from 0.75% to 3.0%, with major oxides being Ce_2O_3 and La_2O_3. As a result, apatite abundance within these units is a minor albeit important contributor to TREO within the RMP.

The REE analytical data suggests that crystal fractionation and accumulation played a major role allanite formation within the RMP. The evolution of the pluton began with the crystallization of a monzodioritic parent magma and subsequent crystallization of allanite and zircon-rich FM and CQM. This is supported by trace element variations throughout the pluton, which exhibit a decrease in Sr and Ba accompanied by an increase in Rb for samples with 65%

or more SiO_2, which is consistent with fractionation of plagioclase (Anderson et al., 2003). Further petrographic work by Anderson et al. (2003) suggested that olivine, clinopyroxene, plagioclase, apatite, zircon, and allanite are accumulative, whereas K-feldspar, hornblende, biotite, and quartz crystallized from intercumulus liquids. The main factors controlling the abundant formation of allanite within RMP rocks are low phosphorous content and high water activity (Anderson et al., 2003).

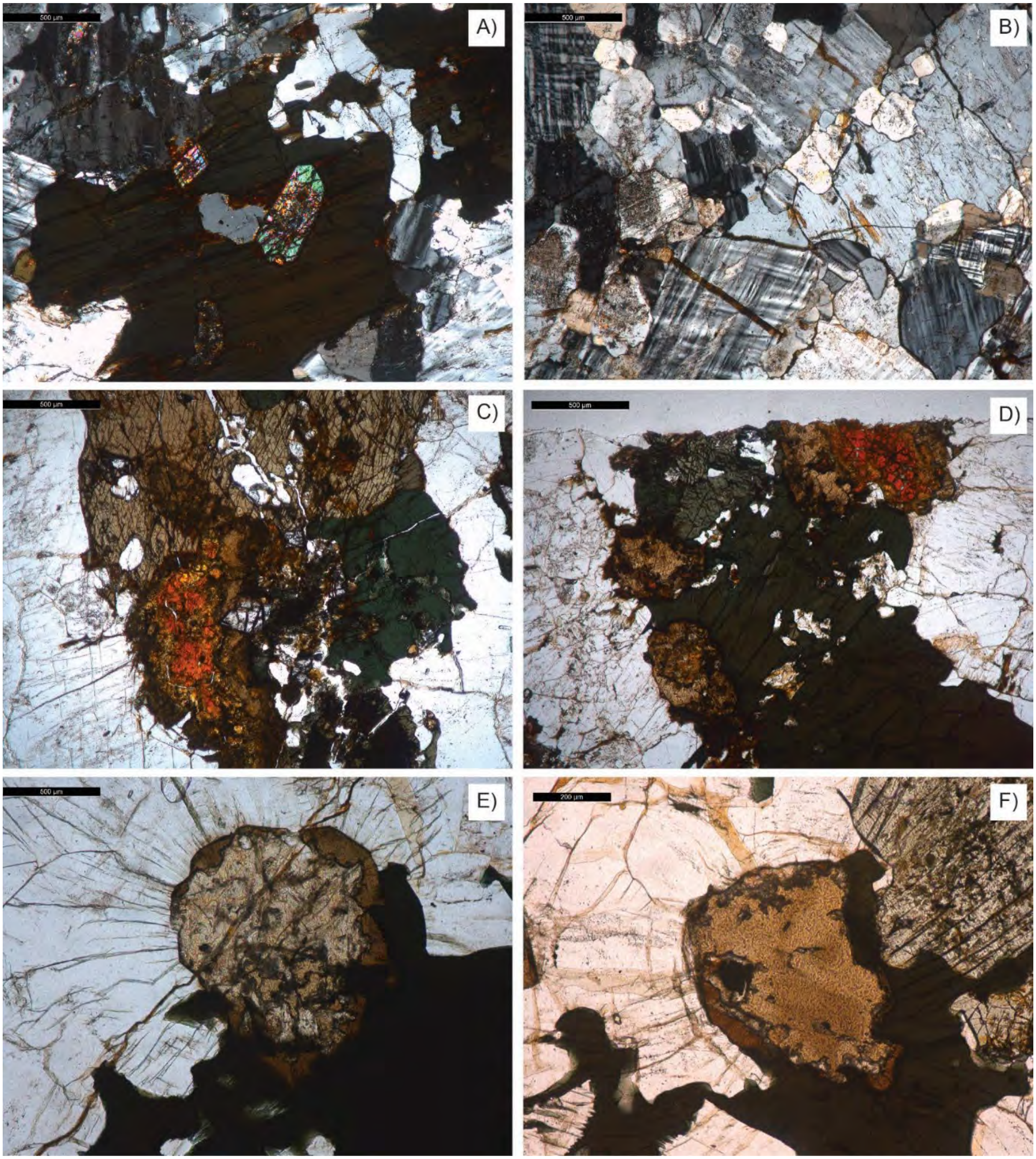
7.5 Petrography

To date, minimal petrographic work has been conducted on rocks of the clinopyroxene quartz monzonite from the Halleck Creek Resource Area. However, one report was completed by DCM Science Laboratory, Inc at the request of WIM and a brief, in-house petrographic study was conducted by Company geologist Sara Stotter. The results of this work have led to the following conclusions, and photographs of described textures can be observed in Plate 1 and Plate 2:

- Most allanite grains occur as inclusions in and around aggregates of fractured amphibole. Allanite measurements range from 400 µm up to 2.5 mm in diameter. Allanite occasionally exhibits thin rinds of epidote or iron-oxide as well as metamict, isotropic cores. Metamict allanite often caused radial fracturing in the surrounding minerals.
- Feldspars are the dominant silicate phase in the samples. Microcline is the primary feldspar, closely followed by plagioclase which ranges in composition from albite to oligoclase. Plagioclase is commonly weakly sericitized.
- Green amphibole is the second most abundant silicate, and typically comprises no more than 25% of the samples by volume. Amphibole typically occurs as aggregates and prisms up to 5 mm in size and exhibits mild to moderate decay to iron-oxide along cleavage planes.
- Quartz content comprises no more than 10-15% in each sample. Typically, anhedral/rounded grains which occur interstitially between feldspar and amphibole. Myrmekitic quartz is common throughout.
- Zircon is present in all samples as trace euhedral prisms and is most commonly hosted within amphibole. Ranges in diameter from 50-500 µm.
- Trace, rounded apatite occurs as inclusions within feldspar and quartz.
- Trace biotite occurs as aggregates associated with amphibole.
- All samples exhibit varying amounts of iron-oxide which occur as fracture fill or as replacement of amphibole. Ilmenite is the most common variety observed.
- Trace pyrite or pyrrhotite was observed in one sample and was identified using EDS spectrometry. Sulphides, when present, typically occur around

the edges of allanite grains.

Plate 1 - Polarizing light images of petrographic textures



* Descriptions on following page

A) Cross-polarized light image (5x) of euhedral, fractured zircon inclusions within hornblende. Hornblende exhibits strong evidence of decay to iron-oxide. Surrounding matrix feldspar is dominantly perthitic; weakly sericitized.

B) Photomicrograph of characteristic monzonitic matrix observed in all samples. Dominant phases are microcline, perthite, and plagioclase, with minor quartz. All phases are anhedral and interlocking with irregular grain boundaries. Plagioclase typically exhibits sericitization.

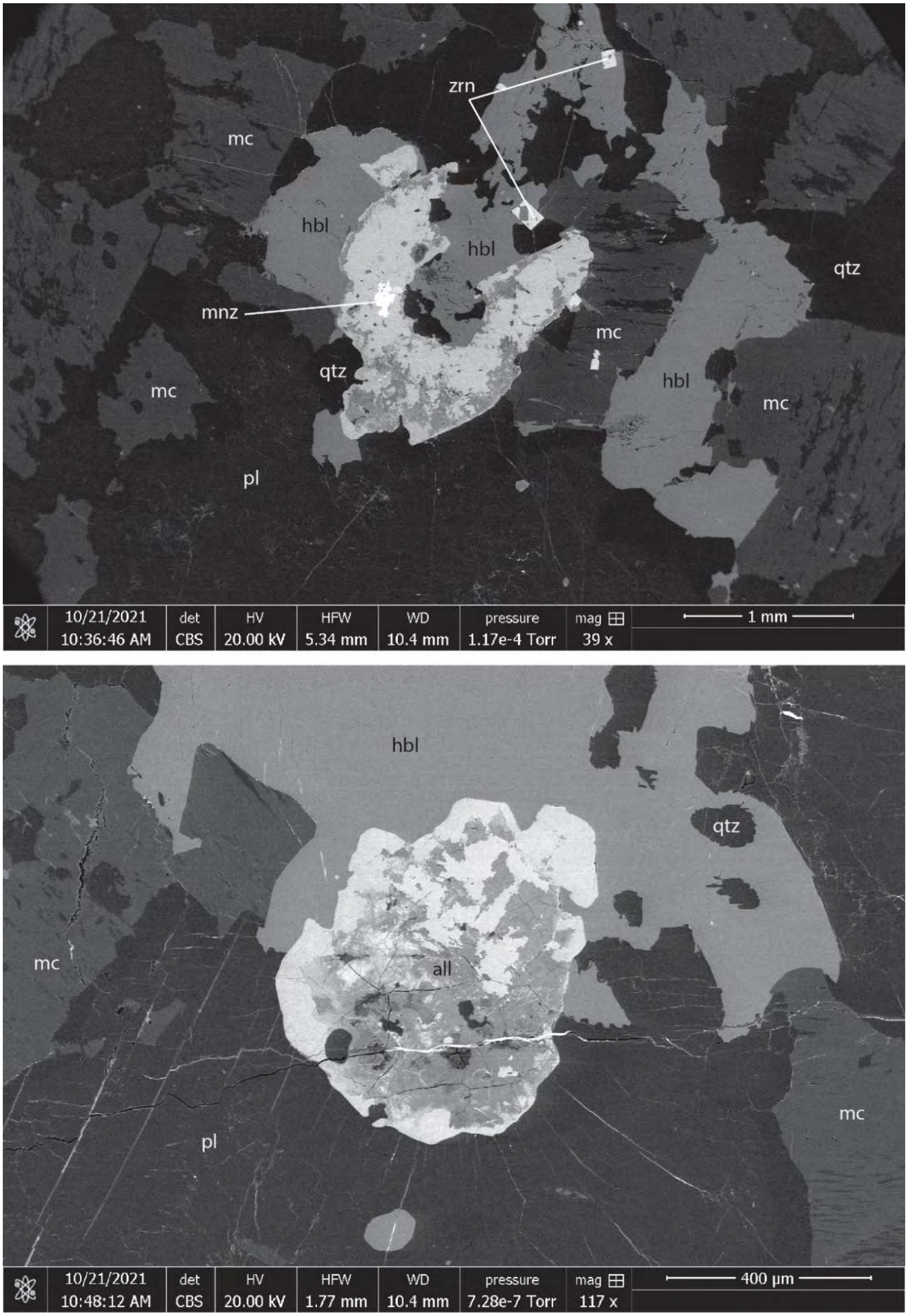
C) Photomicrograph of fractured amphibole glomeroblast with inclusions of altered and metamict allanite in a monzonitic matrix.

D) Photomicrograph of fractured amphibole glomeroblast with inclusions of altered and metamict allanite in a monzonitic matrix.

E) Image of rounded, metamict allanite grain on the edge of an amphibole aggregate exhibiting radial fracturing into the surrounding matrix. The welling and expansion occur because of hydration of the crystal structure due to radiation damage.

F) Image of rounded, metamict allanite grain on the edge of an amphibole aggregate exhibiting radial fracturing into the surrounding matrix. The welling and expansion occur because of hydration of the crystal structure due to radiation damage.

Plate 2 - Scanning electron microscope images of petrographic textures



7.6 Mineralogical Characterization

In the fall of 2022, the ARR sent a select set of core samples from the Maiden Drilling Program to SGS for detailed mineralogical characterization examination in Lakefield Ontario. Mineralogical work was conducted with TIMA-X (Tescan Integrated Mineralogical Analyzer), Electron Probe Micro-Analysis (EMPA), X-ray diffraction analysis (XRD), an electron-microscope, and chemical assays. The purpose of these tests was to determine the overall mineralogical assemblage of the clinopyroxene quartz monzonite and to define the liberation and association attributes of REE minerals (REM).

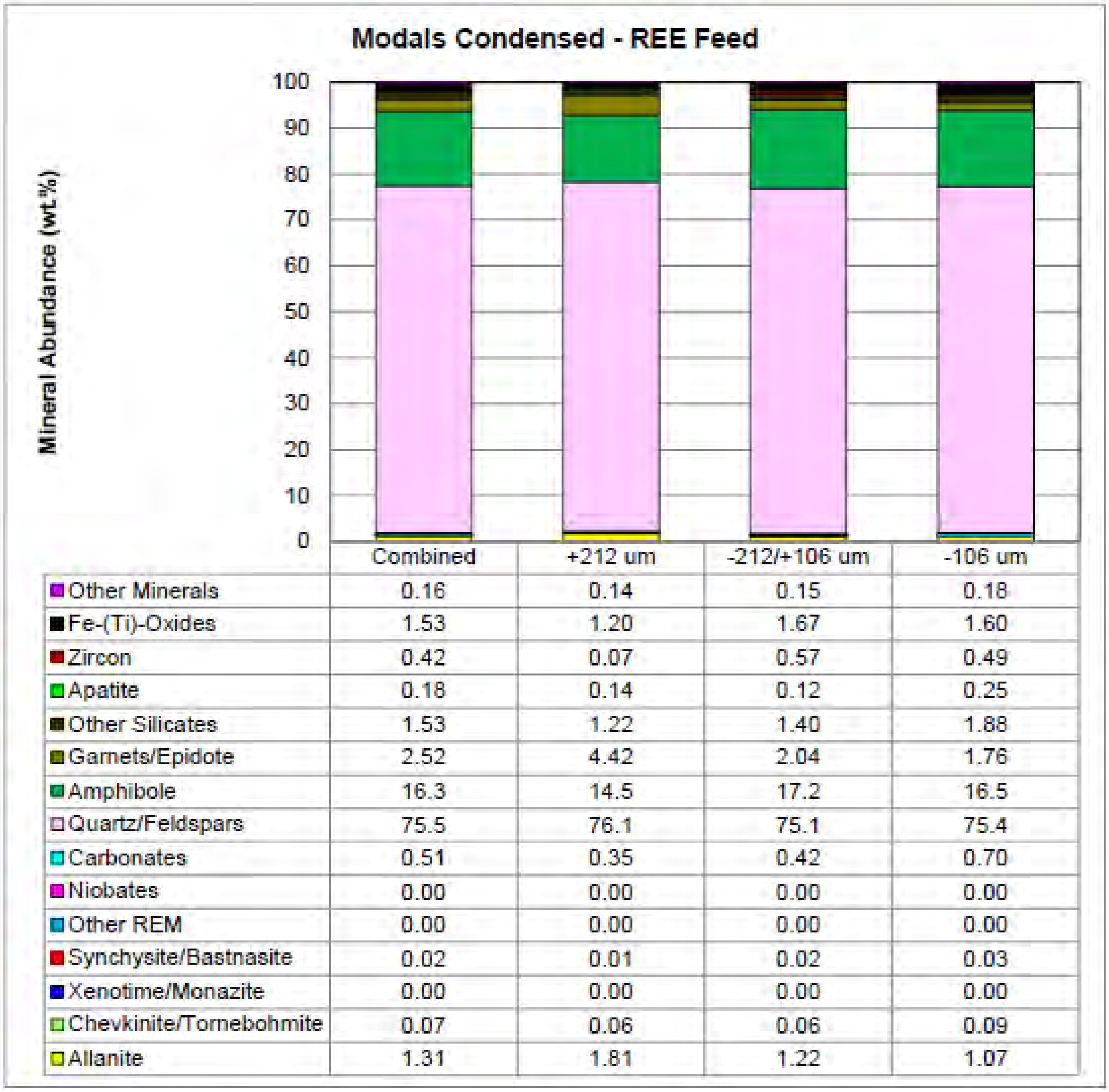
XRD analysis revealed the bulk crystalline mineralogy of the CQM to be albite (30%), microcline (34%), actinolite (12%), quartz (9%), and lower amounts of other silicates, Fe-(Ti) oxides, and carbonates. Modal mineralogy from TIMA-X analysis revealed similar results with orthoclase (39.9%), plagioclase (29.6%), amphibole (16.3%; includes minor pyroxene), quartz (6.6%), garnets/epidote (2.3%), biotite (1.2%), and trace amounts of carbonates, other silicates, apatite, sulphides, Fe-oxides, ilmenite, and other minerals (detailed results can be found in Figure 10).

The analysis revealed that while allanite is the dominant REE-bearing mineral, synchysite/bastnasite ($CaCe(CO_3)_2F$, $Ce(CO_3)F$) comprise 0.02% of modal mineralogy, and chevkinite/tornebohmite ($Ce_4(Ti,Fe^{2+},Fe^{3+})_5O_8(Si_2O_7)_2$, $Ce_2Al(SiO_4)_2(OH)$) comprise 0.07% (Figure 11). Liberated (pure, free, and liberated) allanite accounts for 87.5% in the sample, and the remainder occurs as complex particles (2.4%), middlings with quartz/feldspars (5.4%), amphibole (1.1%) and other minerals in trace amounts (<1%). As far as the minor REE-bearing phases, liberated chevkinite/tornebohmite accounts for 50.2% in the sample, and liberation of synchysite/bastnasite is 23%.

Sixty-one allanite grains were analyzed by EPM, and revealed that average REE oxides in the allanite are as follows (Table 9):

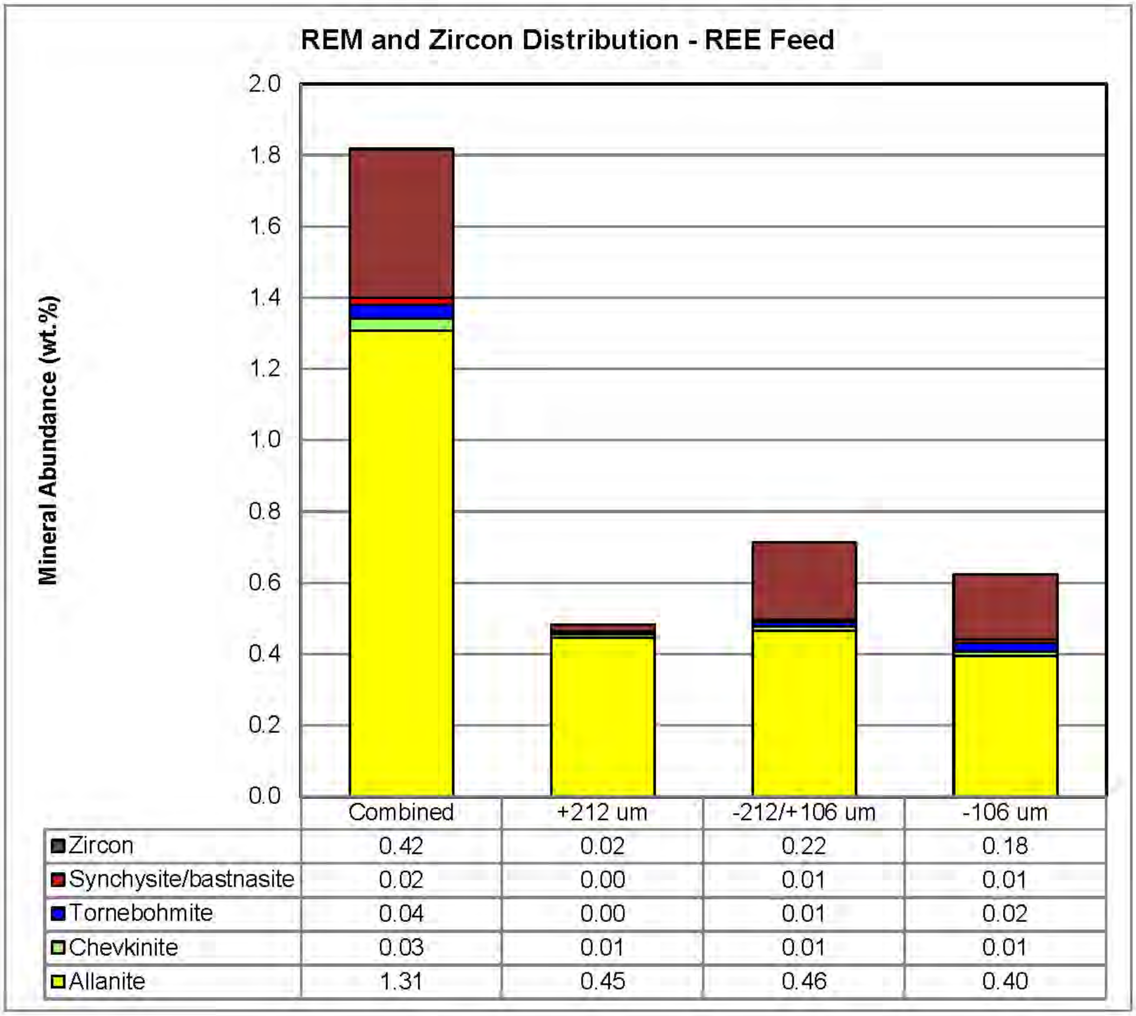
Table 9 – Average REE oxides per allanite grain

Oxide	Average
Ce_2O_3	11.22%
La_2O_3	5.46%
Nd_2O_3	4.63%
Pr_2O_3	1.25%
Gd_2O_3	0.30%
Sm_2O_3	0.56%
Y_2O_3	0.25%



	Combined	+212 um	-212/+106 um	-106 um
🟪 Other Minerals	0.16	0.14	0.15	0.18
⬛ Fe-(Ti)-Oxides	1.53	1.20	1.67	1.60
🟥 Zircon	0.42	0.07	0.57	0.49
🟩 Apatite	0.18	0.14	0.12	0.25
⬛ Other Silicates	1.53	1.22	1.40	1.88
🟫 Garnets/Epidote	2.52	4.42	2.04	1.76
🟩 Amphibole	16.3	14.5	17.2	16.5
⬜ Quartz/Feldspars	75.5	76.1	75.1	75.4
🟦 Carbonates	0.51	0.35	0.42	0.70
🟪 Niobates	0.00	0.00	0.00	0.00
🟦 Other REM	0.00	0.00	0.00	0.00
🟥 Synchysite/Bastnasite	0.02	0.01	0.02	0.03
🟦 Xenotime/Monazite	0.00	0.00	0.00	0.00
🟩 Chevkinite/Tornebohmite	0.07	0.06	0.06	0.09
🟨 Allanite	1.31	1.81	1.22	1.07

Figure 10 – Summary of Modal Mineralogy by Size and Calculated Head From SGS Report: January, 2023



	Combined	+212 um	-212/+106 um	-106 um
■ Zircon	0.42	0.02	0.22	0.18
🟥 Synchysite/bastnasite	0.02	0.00	0.01	0.01
🟦 Tornebohmite	0.04	0.00	0.01	0.02
🟩 Chevkinite	0.03	0.01	0.01	0.01
🟨 Allanite	1.31	0.45	0.46	0.40

Figure 11 – REM (rare earth mineral) and Zircon Mineral Mass by Size Fraction and Calculated Head for REE Feed From SGS Report: January, 2023

SGS determined Allanite association with matrix minerals in the core. They reported that approximately 87.5% of all Allanite exists as free, pure, or liberated forms (due to grinding), as depicted in Figure 12. The remaining 12.5% of Allanite is associated with matrix minerals (intergrowths with silicate gangue). The free, pure and liberated Allanite percentage increases to 90.2% for material exceeding 212 microns (Table 10).

Table 10 - Allanite Association / Mass % of Allanite [%] by Size Fraction

Allanite Association / Sample	REE Feed	REE Feed +212 um	REE Feed -212/+106 um	REE Feed -106 um
Pure Allanite	21.7	0.9	18.0	49.6
Free Allanite	46.9	63.3	51.9	22.6
Lib Allanite	18.9	26.0	15.7	14.5
Allan: Chevk/Torneb	0.70	0.14	0.44	1.64
Allan: Xenot/Monaz	0.00	0.00	0.00	0.01
Allan: Synch/Bastn	0.44	1.06	0.00	0.27
Allan: Other REM	0.00	0.00	0.00	0.00
Allan: Niobates	0.00	0.00	0.00	0.00
Allan: Carbonates	0.18	0.00	0.40	0.14
Allan: Feldspars/Quartz	5.26	4.07	6.84	4.76
Allan: Amphibole	1.10	0.48	0.87	2.05
Allan: Garnets/Epidote	0.36	0.26	0.66	0.13
Allan: Apatite	0.30	0.00	0.82	0.01
Allan: Zircon	0.04	0.00	0.01	0.14
Allan: Fe-(Ti)-Oxides	0.24	0.00	0.38	0.33
Allan: Other Minerals	0.03	0.00	0.09	0.01
Allan: Amph: Feld/Qtz	0.78	1.36	0.15	0.88
Allan: Amph: Feld/Qtz: Garn/Ep	0.44	0.81	0.24	0.27
Complex	2.62	1.64	3.45	2.74
Total	**100**	**100**	**100**	**100**
Total Allanite Liberation	87.5	90.2	85.7	86.6

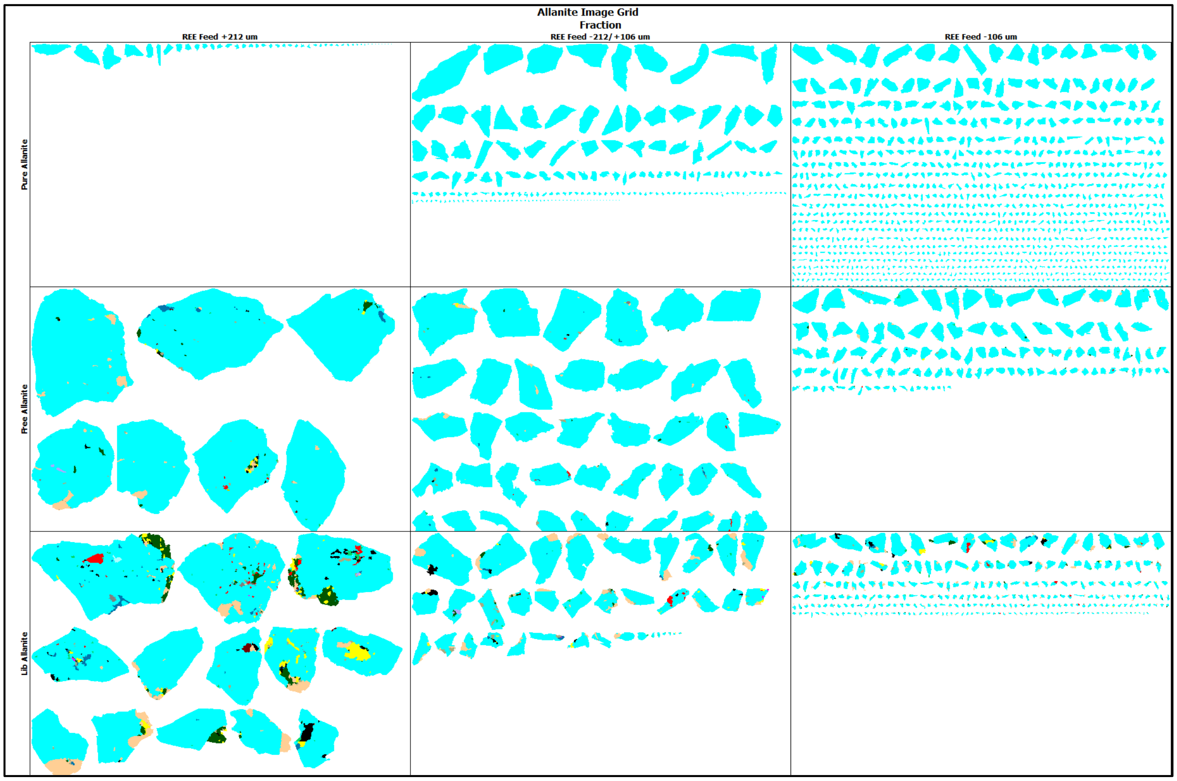


Figure 12 - TIMA Image of Allanite Liberation and Association Profile by Size Fraction From SGS Report: January, 2023

8 Deposit Type

8.1 Geological Setting

While “rare earth elements” are typically a misnomer due to the relative abundance of REEs within the Earth’s crust, they are rarely concentrated into mineable ore deposits of significant grade and size. Deposits of REEs can be divided into primary and secondary deposits: primary deposits are formed by magmatic, hydrothermal, and/or metamorphic processes, and secondary deposits are formed by erosion and weathering. Examples of primary deposits include alkaline igneous rocks and carbonatites, emplaced within extensional tectonic settings. More specifically, the hosts can range from nepheline syenites and trachytes to peralkaline granites. In nearly all of these cases, the REEs are present in accessory and trace minerals, of which the most common include bastnäsite, eudialyte, loparite, gittinsite, xenotime, monazite, zircon, and allanite. Secondary deposits are typically placers, laterites, and bauxites. The RMP itself is a primary alkaline igneous deposit composed of monzonitic and syenitic host rock. Alkaline igneous deposits are formed by the partial melting of mantle rock. These magmas are not only enriched in REEs, but are typically enriched in Zr, Nb, Sr, Ba, and Li. As mantle magma ascends through the crust, it changes chemically in response to a variety of factors including temperature, pressure, and chemistry of wall rock. These complex interactions result in wide varieties of REE deposits (Balaram, 2019).

In summary, the main factor in REE mineralization in deposits like the RMP at Halleck Creek is directly attributed to fractional crystallization in the late stages of magma body evolution. It is also common for the primary magmatic mineralization to be overprinted by late magmatic and/or hydrothermal fluids (Balaram, 2019). Primary alkaline deposits are commonly associated with elevated levels of Uranium and Thorium. However, the RMP deposit is unusually depleted of radioactive elements.

8.2 Genesis

The RMP is a residual alkaline melt body associated with the emplacement of the Laramie Anorthosite Complex ca. 1437 ± 2.4 Ma (Frost et al., 2010). The LAC intruded over the trace of the Cheyenne Belt (1.78-1.76 Ga), which is the suture zone between the Archean Wyoming province to the north and the Proterozoic Colorado province and associated island arcs to the south. The LAC consists of a core of anorthosite, which is comprised of three distinct bodies including the Chugwater anorthosite, the Poe Mountain anorthosite, and the Snow Creek anorthosite. The anorthosite core is rimmed by three residual monzonitic plutons, including the Maloin Ranch pluton, the Sybille intrusion, and the Red Mountain pluton. The Red Mountain Pluton is the ore body host at the Halleck Creek project area. Such monzonitic plutons are believed to be the result of open-system fractionation of a ferrodioritic parent magma, which is typical residua subsequent to the crystallization of the primary anorthosite bodies (Anderson et al., 2003).

Further fractional crystallization within the RMP played an important role in the formation of the REE deposit. Trace element variations within these rocks show a decrease in Sr and Ba, accompanied by an increase in Rb for samples with 65% or more SiO_2: this pattern is consistent with the fractionation of plagioclase. Additionally, Zr, Y, and Th contents increase from the LAC monzodiorites through FM to a peak at the CQM and MQM, and then decrease in the MQM and BHS (Anderson et al., 2003). Peaks in these elements within CQM and MQM correspond to high modal contents of zircon (0.5%), allanite (3%), and hornblende (25%). Allanite is the primary REE-bearing mineral in the deposit, abundant allanite directly correlates with TREO enrichment.

9 Exploration

9.1 Exploration Projects over time

9.1.1 Fall 2022 RC Drilling Program

The company conducted a reverse circulation (RC) drilling program at the Halleck Creek Rare Earth's Project during Q4 of 2022. The drilling program included 38 holes, with 18 drilled on Red Mountain (Table 11) and 20 drilled n Overton Mountain (Table 12, Figure 13). The primary objective of the program was to define a maiden resource estimate within the encompassing Halleck Creek Project Area.

The program began on October 5th, 2022 and concluded on December 11th, 2022. A total of 67 days split between five hitches were worked between three geologists and two drill crews. FTE Drilling Services (FTE) out of Canada performed the drilling on behalf of the Company. Total length drilled resulted in 5,575.5 ft (18,292.3 meters), and a total of 3,814 rock chip samples were collected and sent to ALS Global for assay.

Table 11 – Summary of Halleck Creek Exploration Drilling: Red Mountain

Drill Hole ID	Date Started	Date Ended	Easting*	Northing*	Azimuth/ Dip	Drilled Depth (m)	Drilled Depth (ft)	Samples Collected**
HC22-RM005	10/5/22	10/7/22	475748.96	4633192.15	150, -65	150	492.13	100
HC22-RM006	10/8/22	10/9/22	475748.96	4633192.15	180, -65	150	492.13	100
HC22-RM007	10/9/22	10/10/22	475613.37	4633063.16	270, -65	150	492.13	100
HC22-RM008	10/12/22	10/13/22	475444.97	4632492.94	300, -65	150	492.13	100
HC22-RM009	10/13/22	10/13/22	475577.78	4632309.39	0, -90	150	492.13	100
HC22-RM010	10/14/22	10/15/22	475449.8	4632667.46	0, -90	150	492.13	99
HC22-RM011	10/15/22	10/15/22	475245.94	4632699.70	300, -65	150	492.13	100
HC22-RM012	10/16/22	10/16/22	475194.18	4632498.81	270, -65	150	492.13	100
HC22-RM013	10/17/22	10/17/22	475200.04	4632320.59	270, -65	150	492.13	100
HC22-RM014	10/18/22	10/18/22	475196.48	4632135.07	280, -65	150	492.13	100
HC22-RM015	10/19/22	10/20/22	475040.07	4631971.30	340, -65	175.5	575.79	117
HC22-RM016	10/21/22	10/21/22	475610.67	4632832.45	310, -65	150	492.13	100
HC22-RM017	10/22/22	10/22/22	475478.14	4633278.68	210, -65	150	492.13	100
HC22-RM018	10/22/22	10/23/22	475279.29	4633269.48	130, -65	150	492.13	100
HC22-RM019	10/24/22	10/28/22	475077.06	4633075.34	150, -65	150	492.13	100
HC22-RM020	11/4/22	11/5/22	474818.89	4632864.51	130, -65	150	492.13	100
HC22-RM021	11/6/22	11/7/22	475477.09	4633528.27	180, -65	150	492.13	100
HC22-RM022	11/8/22	11/9/22	474655.77	4631816.11	20, -65	150	492.13	99
Totals						**2,575.5**	**8,449.87**	**1,815**

*UTM NAD 1983, Zone 13

**Excluding internal QA/QC

Table 12 – Summary of Halleck Creek Exploration Drilling: Overton Mountain

Drill Hole ID	Date Started	Date Ended	Easting*	Northing*	Azimuth/ Dip	Drilled Depth (m)	Drilled Depth (ft)	Samples Collected**
HC22-OM006	11/10/22	11/11/22	474453.90	4636138.91	0, -90	150	492.13	100
HC22-OM007	11/11/22	11/12/22	474336.27	4635641.71	180, -65	150	492.13	100
HC22-OM008	11/12/22	11/13/22	474662.25	4635621.55	200, -65	150	492.13	100
HC22-OM009	11/13/22	11/13/22	475021.50	4635648.93	200, -65	150	492.13	100
HC22-OM010	11/14/22	11/14/22	475246.37	4635668.80	220, -65	150	492.13	100
HC22-OM011	11/14/22	11/15/22	475454.96	4635586.47	50, -65	150	492.13	100
HC22-OM012	11/16/22	11/16/22	475632.58	4635428.20	0, -65	150	492.13	100
HC22-OM013	11/22/22	11/24/22	475539.20	4635251.10	90, -85	150	492.13	100
HC22-OM014	11/24/22	11/25/22	475703.61	4635229.55	90, -65	150	492.13	100
HC22-OM015	11/26/22	11/27/22	475622.75	4635052.85	270, -65	150	492.13	100
HC22-OM016	11/27/22	11/30/22	475758.58	4634921.59	0, -90	150	492.13	100
HC22-OM017	12/1/22	12/2/22	475378.11	4634744.92	290, -65	150	492.13	100
HC22-OM018	12/2/22	12/3/22	475194.78	4635079.42	0, -90	150	492.13	100
HC22-OM019	12/5/22	12/6/22	475059.49	4635246.08	0, -90	150	492.13	100
HC22-OM020	12/6/22	12/6/22	475154.24	4635400.65	200, -65	150	492.13	100
HC22-OM021	12/7/22	12/7/22	475053.71	4634871.73	290, -65	150	492.13	100
HC22-OM022	12/7/22	12/8/22	474934.56	4635044.02	360, -65	150	492.13	100
HC22-OM023	12/8/22	12/9/22	475250.25	4634562.95	0, -90	150	492.13	100
HC22-OM024	12/9/22	12/10/22	474663.17	4634971.48	240, -65	150	492.13	100
HC22-OM025	12/10/22	12/11/22	474783.85	4634503.85	360, -65	150	492.13	100
Totals						**3,000**	**9,842.52**	**2,000**

*UTM NAD 1983, Zone 13

**Excluding internal QA/QC

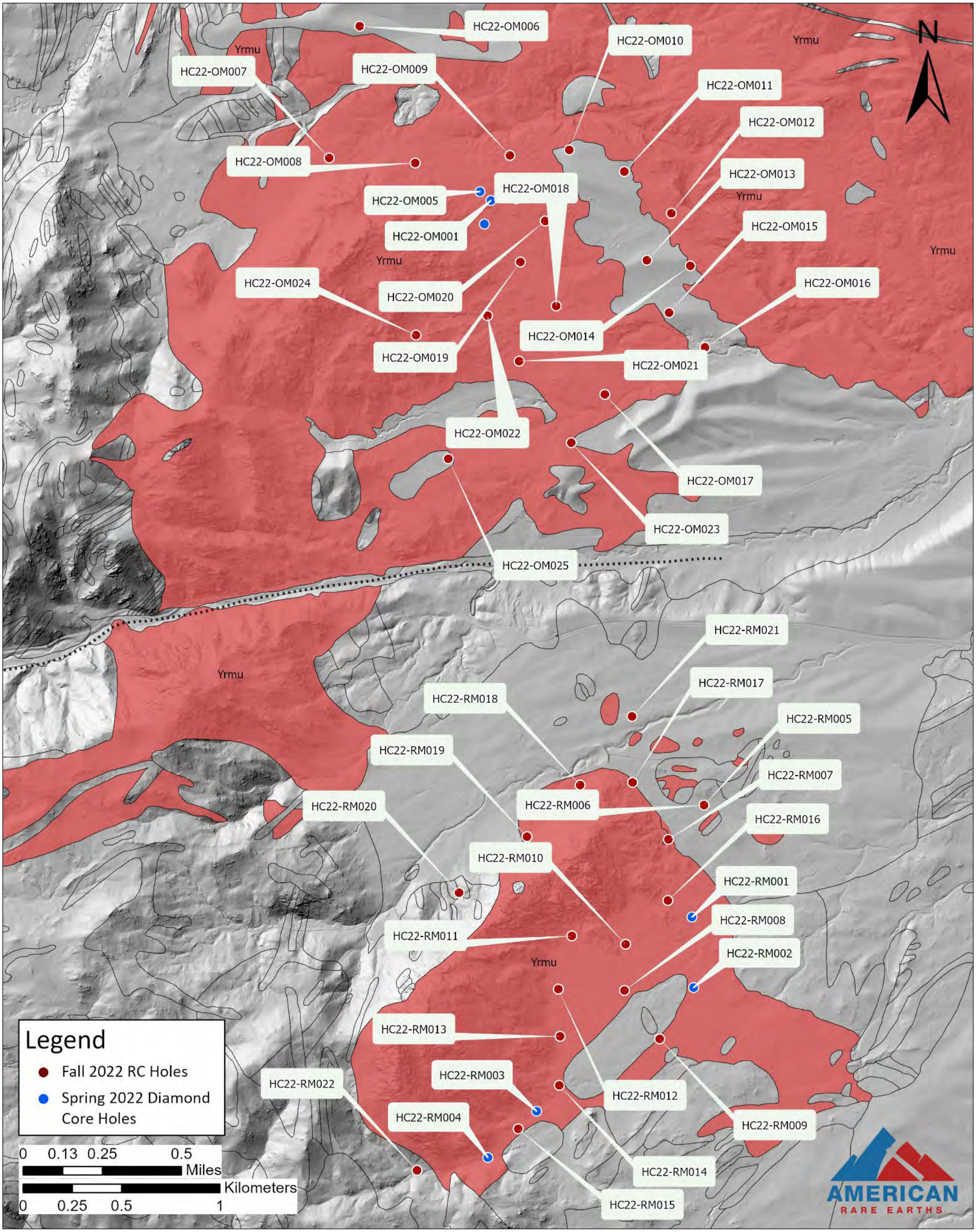


Figure 13 –Location of all Drill Holes at Halleck Creek REE Project

9.1.1.1 Assay Results

A summary of major intercepts from new assay data at both Overton Mountain and Red Mountain can be found in Table 13 and Table 14 below.

Table 13 – Summary of Assays within the Overton Mountain Resource Area*

DHID	Sample Count	Total Thick (m)	TREO			MREO			LREO			HREO		
			Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
HC22-OM006	15	22.5	1,946	1,532	2,563	526	411	698	1,572	1,213	2,163	374	319	446
HC22-OM007	59	88.5	2,348	1,510	6,710	662	432	1,837	2,030	1,240	6,228	318	257	482
HC22-OM008	37	55.5	1,631	1,500	2,434	454	415	641	1,368	1,235	2,030	262	234	404
HC22-OM009	63	94.5	1,792	1,501	2,815	486	409	735	1,468	1,175	2,457	324	264	417
HC22-OM010	97	145.5	3,080	1,541	5,579	835	437	1,457	2,759	1,271	5,154	321	229	426
HC22-OM011	98	147.0	4,219	2,944	5,872	1,122	747	1,606	3,861	2,687	5,375	357	257	497
HC22-OM012	99	148.5	4,255	2,436	5,313	1,146	664	1,452	3,873	2,220	4,837	382	216	476
HC22-OM013	91	136.5	4,113	1,564	5,083	1,082	420	1,354	3,737	1,315	4,605	376	249	479
HC22-OM014	100	150.0	4,326	2,331	5,942	1,162	639	1,611	3,936	2,112	5,386	390	219	556
HC22-OM015	94	141.0	3,570	1,579	5,874	960	409	1,579	3,191	1,299	5,282	378	253	592
HC22-OM016	71	106.5	2,954	1,510	4,532	788	379	1,243	2,602	1,233	4,105	352	182	546
HC22-OM017	99	148.5	3,685	1,765	5,070	986	459	1,312	3,312	1,593	4,611	372	172	540
HC22-OM018	99	148.5	4,499	3,236	6,234	1,212	852	1,697	4,083	2,935	5,660	416	301	600
HC22-OM019	99	148.5	3,870	2,955	5,419	1,046	805	1,467	3,494	2,657	4,976	376	298	443
HC22-OM020	100	150.0	3,401	2,322	4,635	920	628	1,263	3,063	2,042	4,227	339	280	408
HC22-OM021	99	148.5	3,790	2,842	5,071	1,006	754	1,362	3,386	2,509	4,577	404	320	537
HC22-OM022	100	150.0	4,197	3,084	5,273	1,118	836	1,395	3,804	2,778	4,810	392	306	463
HC22-OM023	98	147.0	3,728	2,931	5,121	998	802	1,392	3,329	2,564	4,483	399	287	702
HC22-OM024	100	150.0	4,105	2,602	9,310	1,095	706	2,585	3,708	2,300	8,585	397	302	725
HC22-OM025	100	150.0	3,538	1,962	6,483	950	509	1,752	3,180	1,767	5,847	358	195	636
Grand Total	**1,718**	**2,577.0**	**3,658**	**1,500**	**9,310**	**982**	**379**	**2,585**	**3,288**	**1,175**	**8,585**	**370**	**172**	**725**

TREO: Total rare earth oxide, MREO: Magnetic rare earth oxide, LREO: Light rare earth oxide, HREO: Heavy rare earth oxide

*TREO 1,500 ppm cut-off

Table 14 – Summary of Assays within the Red Mountain Resource Area*

DHID	Sample Count	Total Thick (m)	TREO			MREO			LREO			HREO		
			Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
HC22-RM005	26	39.0	2,623	1,687	4,233	702	402	1,098	2,300	1,359	3,844	323	149	495
HC22-RM006	16	24.0	2,480	1,619	3,832	687	463	995	2,123	1,418	3,293	357	201	539
HC22-RM007	100	150.0	3,966	2,238	6,666	1,084	620	1,801	3,523	1,965	5,881	443	269	785
HC22-RM008	3	4.5	1,585	1,513	1,663	509	491	536	1,258	1,201	1,321	327	312	342
HC22-RM009	95	142.5	3,163	1,501	4,726	856	408	1,350	2,863	1,277	4,159	300	157	567
HC22-RM010	99	148.5	2,596	1,776	3,221	709	482	887	2,287	1,518	2,838	309	206	403
HC22-RM011	100	150.0	3,236	2,102	3,675	899	570	1,066	2,856	1,813	3,257	381	265	453
HC22-RM012	45	67.5	2,281	1,603	2,985	602	438	783	2,040	1,379	2,699	241	187	345
HC22-RM013	50	75.0	3,583	1,699	4,323	965	453	1,196	3,283	1,498	3,952	301	194	371
HC22-RM014	99	148.5	3,958	2,897	4,572	1,053	766	1,260	3,639	2,621	4,200	319	239	372
HC22-RM015	113	169.5	4,303	1,635	5,762	1,189	470	1,596	3,860	1,373	5,084	443	230	678
HC22-RM016	99	148.5	3,495	1,890	4,246	954	497	1,174	3,106	1,686	3,782	389	204	464
HC22-RM017	88	132.0	3,922	1,903	5,969	1,092	607	1,705	3,382	1,334	5,129	540	357	984
HC22-RM018	33	49.5	2,225	1,507	4,639	700	459	1,342	1,824	1,212	4,182	401	274	604
HC22-RM019	63	94.5	3,071	1,597	8,784	866	464	2,321	2,722	1,310	8,335	349	215	730
HC22-RM020	8	12.0	3,602	1,592	8,359	983	446	2,307	3,162	1,367	7,466	439	225	893
HC22-RM021	78	117.0	2,800	1,504	7,183	779	430	1,942	2,492	1,216	6,589	309	239	594
HC22-RM022	25	37.5	6,948	1,828	10,636	1,990	493	3,097	6,239	1,620	9,704	710	208	964
Grand Total	**1,140**	**1,710.0**	**3,324**	**1,501**	**10,636**	**923**	**402**	**3,097**	**2,942**	**1,201**	**9,704**	**382**	**149**	**984**

TREO: Total rare earth oxide, MREO: Magnetic rare earth oxide, LREO: Light rare earth oxide, HREO: Heavy rare earth oxide

*TREO 1,500 ppm cut-off

Assay results from both the Overton Mountain and Red Mountain resource areas demonstrate that the clinopyroxene quartz monzonite (CQM) remains the primary rare earth element bearing unit within the RMP. Biotite hornblende quartz syenite (BHS) is observed in several Overton Mountain holes, and also exhibits significant REE enrichment.

Magnet REE (Nd, Pr, Dy, Tb, Sm) comprise approximately 26% of the total RE distribution (Figure 14). Distribution in TREO for the magnet REEs are: Nd_2O_3 at 661 ppm (17%), Pr_6O_{11} at 177 ppm (5%), Sm_2O_3 at 103 ppm (3%), Dy_2O_2 at 43 ppm (1%), and Tb_4O_7 at 9 ppm (0%). The ratio of Nd_2O_3: Pr_6O_{11} is 373% or 3.73:1.

The two dominant REO's across the 38 RC holes from the CQM are cerium and lanthanum, comprising 43% and 21% of all TREO, respectively. Light Rare Earth Oxides (LREO) comprise approximately 90% of TREO. Heavy Rare Earth Oxides comprise approximately 10% of TREO (Figure 15, Figure 16).

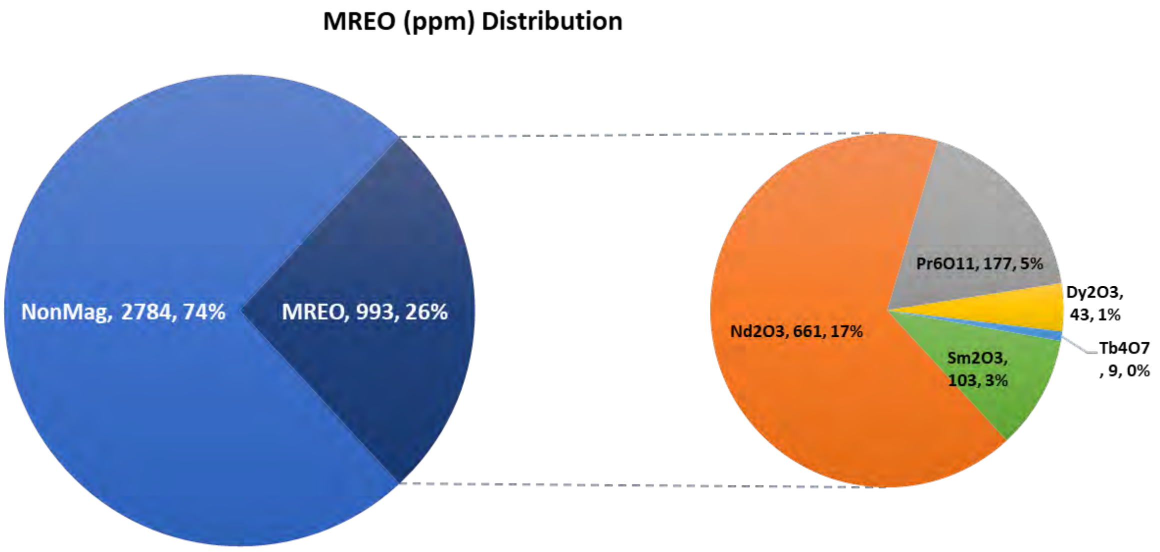


Figure 14 – Distribution of MREO: All CQM

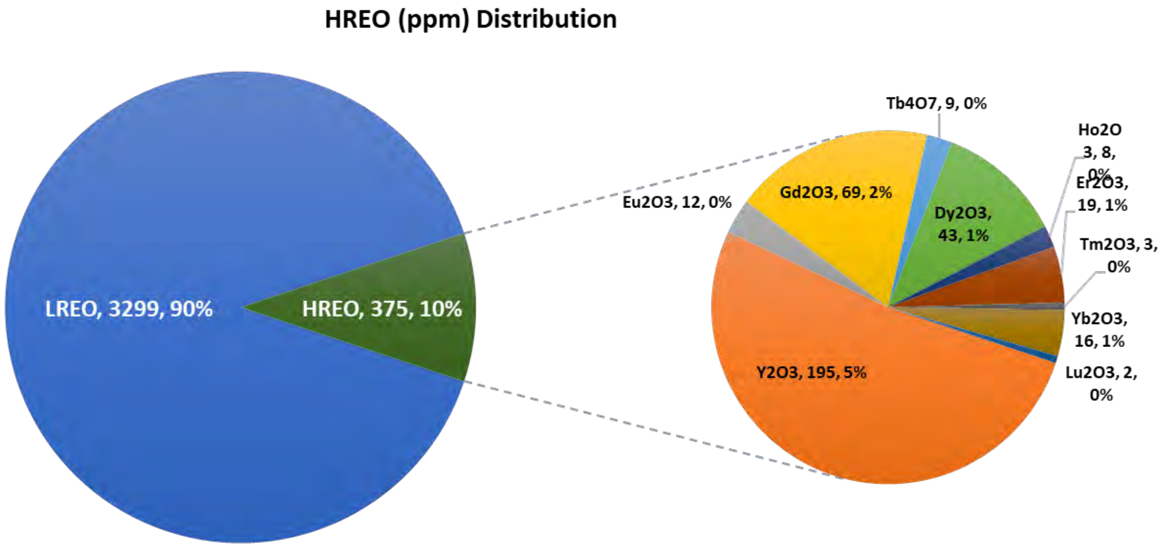


Figure 15 – Distribution of HREO: All CQM

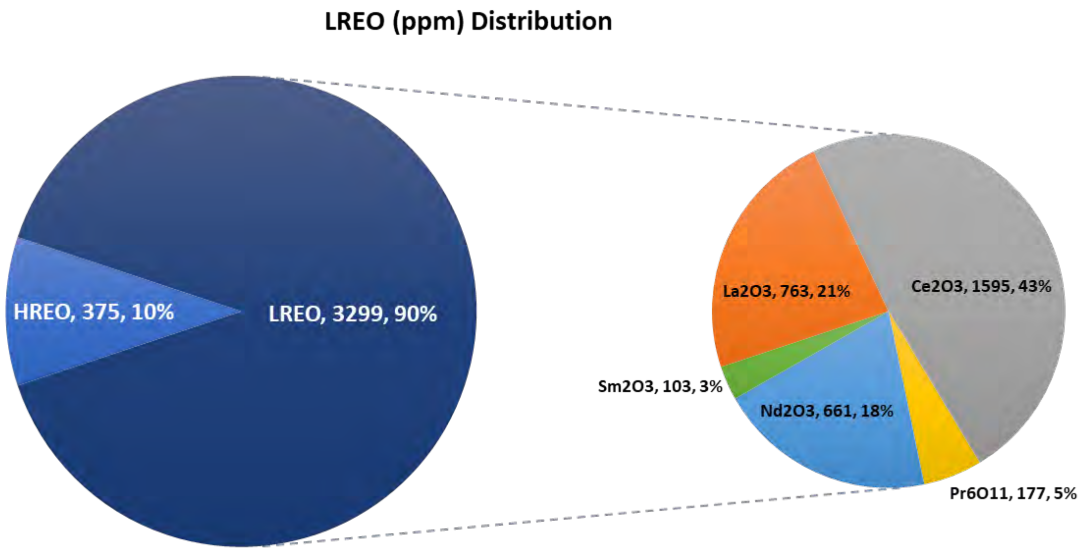


Figure 16 – Distribution of LREO: All CQM

Thorium and uranium content within the CQM samples are very low. Table 15 shows an average value of 63 for the combined oxides of Th and U.

Table 15 – Average ThO_2 and UO_2 values in CQM from RC program

ThO_2 (ppm)	UO_2 (ppm)	Th-U Combined (ppm)
56	7	63

9.1.2 2022 Surface Sampling Initiative

In May of 2022, the Company conducted a surface sampling initiative on rock outcrop east of Bluegrass Creek in order to collect data on unpatented federal lode claims staked by the company in March 2022 (Figure 17). The most recent program included 71 surface samples, which were sent for analysis to American Assay Labs in Sparks, NV. Results from this initiative were very encouraging, and show that REE mineralization extends to the east of the current resource area at Overton Mountain and will significantly increase the potential resource target at the Halleck Creek Project Area (Table 16, Table 17).

Table 16 – Statistical Summary of May 2022 Sampling Initiative

	Total Rare Earth Oxide ppm (TREO)	Magnetic Rare Earth Oxide ppm (MREO)	Light Rare Earth Oxide ppm (LREO)	Heavy Rare Earth Oxide ppm (HREO)
Minimum	265	60	236	29
Maximum	5065	1353	4604	461
Average	3051	812	2738	313

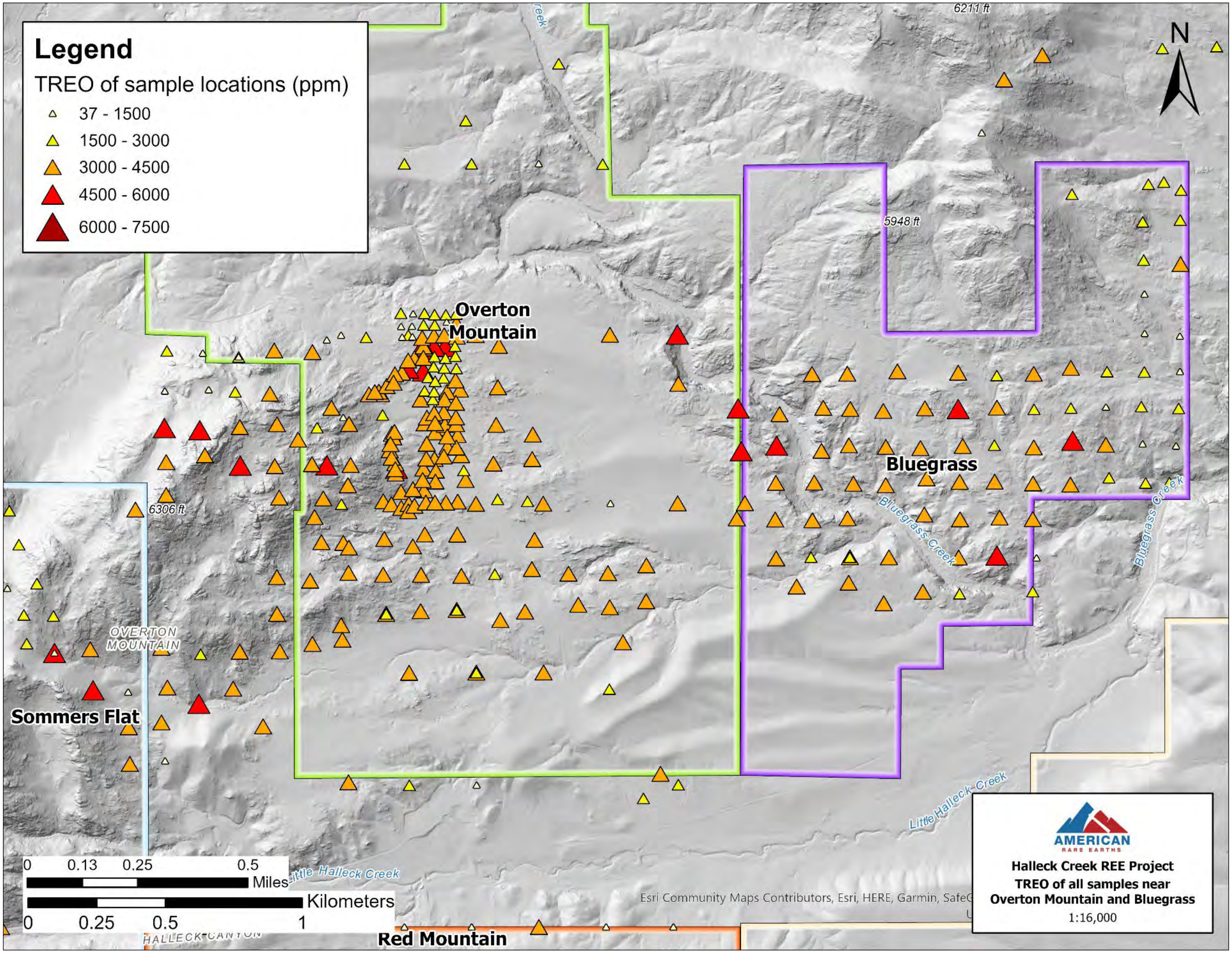


Figure 17 – Location of all samples, including May 2022 sampling initiative

Table 17 - Summary of Average REO Values using a 1,500 (ppm) Cutoff

Count	Total Rare Earth Oxide ppm (TREO)	Magnetic Rare Earth Oxide ppm (MREO)	Light Rare Earth Oxide ppm (LREO)	Heavy Rare Earth Oxide ppm (HREO)
62	3,329	883	3,000	329

All samples were from the clinopyroxene quartz monzonite (CQM) within the RMP, similar to the majority of surface samples that have previously been collected within the claim extent.

9.1.3 Maiden Drilling Program

The Company executed its maiden exploration drilling program at the Halleck Creek Resource Area during March and April 2022. The drilling program included nine core holes, with five drilled on Overton Mountain and four on Red Mountain (Figure 13). A total of 27 days split between three hitches were worked between two geologists and two drill crews. Total length drilled resulted in 3,008 ft (917 meters), and a total of 822 core samples were collected and sent to American Assay Labs, NV for assay (Appendix C – Maiden Drilling Program Assay Data).

Table 18 – Summary of Halleck Creek Exploration Drilling

Drill Hole ID	Date Started	Date Ended	Easting*	Northing*	Drilled Depth (ft)	Drilled Depth (m)	Total Recovery (%)	Samples Collected
HC22-RM01	3/15/22	3/18/22	0475701	4632770	352	107	98%	105
HC22-RM02	3/16/22	3/19/22	0475706	4632504	351	107	98%	102
HC22-RM03	3/20/22	3/22/22	0475109	4632039	351.5	107	99%	91
HC22-RM04	3/19/22	3/22/22	0474924	4631864	194	59	95%	61
HC22-OM01	3/28/22	3/31/22	0474948	4635480	352	107	100%	96
HC22-OM02	3/28/22	4/2/22	0474923	4635391	352.5	107	100%	93
HC22-OM03	4/3/22	4/20/22	0474996	4635508	352	107	99%	90
HC22-OM04	4/1/22	4/4/22	0475043	4635485	352	107	100%	92
HC22-OM05	4/20/22	4/24/22	0451328	4573254	351	107	99%	92
Totals					**3,008**	**917**		**822**

*UTM NAD 1983, Zone 13

The CQM is the primary REE-bearing lithology observed across all nine drillholes. The average TREO for all core samples from Overton Mountain is approximately 3,138 ppm, and the average TREO for core samples from Red Mountain (HC22-RM001, HC22-RM002, HC22-003) is approximately 4,252 ppm. HC22-RM004 was excluded from this average because the hole is dominated by non-REE bearing Sybille Pluton. A summary of assay data from all nine holes can be observed in Table 19.

Table 19 – Summary of assay data from Spring 2022 Core Program

DHID	Lithology	% CQM in core	Min TREO (ppm)	Max TREO (ppm)	Average TREO (ppm)	Average MREO (ppm)	Average LREO (ppm)	Average HREO (ppm)
HC22-OM01	RMP	60%	1,093	7,856	4,219	1,200	3,835	384
HC22-OM02	RMP	91%	1,532	5,682	3,245	834	2,919	326
HC22-OM03	RMP	52%	1,622	7,272	3,749	966	3,384	365
HC22-OM04	RMP	91%	2,083	7,260	3,497	1,103	3,142	355
HC22-OM05	RMP	71%	1,255	4,665	2,027	518	1,725	302
HC22-RM01	RMP	92%	2,319	5,035	4,115	1,039	3,651	464
HC22-RM02	RMP	88%	1,569	6,792	4,335	1,124	3,829	506
HC22-RM03	RMP	88%	1,575	11,981	4,317	1,147	3,931	385
HC22-RM04	RMP	21%	1,513	5,758	2,235	525	1,851	384

The two dominant REO's across the five Overton Mountain core holes are cerium and lanthanum, comprising 43% and 20% of all TREO, respectively. Light Rare Earth Oxides (LREO) comprise approximately 89% of TREO. Heavy Rare Earth Oxides (HREO) comprise approximately 11% of TREO. Across the Red Mountain core holes, cerium and lanthanum comprise 42% and 20% of all TREO, respectively. LREOs comprise approximately 89% of TREO, and HREOs approximately 11% of TREO at Red Mountain.

Thorium and uranium content from all nine core holes remain low. Table X shows an average value of 77 ppm for the combined oxides of Th and U.

Table 20 - Average ThO_2 and UO_2 values in Spring 2022 Core Holes

ThO_2 (ppm)	UO_2 (ppm)	Th-U Combined (ppm)
70	7	77

10 Drilling

10.1 Equipment

Authentic Drilling, based out of Kiowa, Colorado, was contracted for diamond core drilling for the Maiden Drilling Program which occurred in Spring of 2022. The two rigs utilized included an Acker CME 55/300 rubber track rig and an Acker CME 550X buggy rig. Support vehicles included Ford F550s and a Morooka 600MST rubber track carrier.

FTE Drilling Services, based out of Canada, was contracted for RC drilling for the Fall 2022 Drilling Program. The rig utilized was a Schramm T450 Series hydraulic rubber track rig. Support vehicles included Ford F550s and additional air compressors.

10.2 Protocols

Personal protective equipment (PPE) was required by all drillers and on-site geologists and included the following: hard hats, hi-vis reflective vests, eye protection, ear plugs, gloves, steel toed boots, and long pants. Additional safety measures included GPS communicators held by both the drillers and geologists in the field, wheel chocks for the truck, tire plug and repair kits, first aid kits, fire extinguishers, and daily safety meetings held at the core logging site each morning.

Planned drill hole locations were initially located using a handheld Garmin GPSMap 66i device and marked with wooden stakes. A tracked excavator and skid steer was used to construct the drill pads for the core program which had dimensions of approximately 50x50 ft. Drill pads were not constructed for the RC program unless necessary to facilitate the drill rig. For angled holes, a geological compass was used to sight in the drill to the planned azimuth and inclination.

Overburden was cased in all drill holes to varying depths, and all core was drilled as HQ-sized core. During the operation, the core was retrieved from the core barrel and laid sequentially into wax-impregnated core boxes by the drilling contractor and/or geologists on site. Once each box was full, the ends and top of the box were labelled with drill hole identification, the sequential box number, and to-and-from depths. Upon completing a box, it was stacked on a truck bed at the drill rig and was subsequently transported to the on-site core logging location.

For the RC program, overburden was also cased in all drill holes to varying depths. Samples were collected in 1.5 m (4.92 ft) homogenized intervals. Each sample bag was laid out in sequential order for each drill hole as they were collected. Geologists came to collect sample bags at site each morning and transported them directly to the logging facility in Laramie, WY.

Abandonment of the drill holes for both drilling programs consisted of cementing from total depth to surface. Surface completion consisted of a cement pad around the surface casing and was marked with rebar and a wooden stake.

10.2.1 Chip Logging Protocol

Rock chips were collected in 1.5 m intervals for each hole during drilling and placed into chip trays pre-labelled with the unique sample number for each depth interval. Chip logs of alteration and lithology were produced for each hole which included attention to alteration, mineralogy, and secondary mineralization by depth. Photographs of intervals at depths of 24-25.5 m, 49.5-51 m, 75-76.5 m, 99-100.5 m, 124.5-126 m, and 148.5 to 150 m were taken for each drill hole using a stereo microscope.

10.2.2 Core Logging Protocol

After core boxes were delivered to the core logging site, boxes were arranged on tables in downhole order. The following procedures followed:

- Rinsing the core and reconstructing the core at major fractures if necessary.
- Collecting rock quality designation (RQD) data.
    - This also included reconciling the length cored vs. length recovered, documenting fracture type and fracture conditioning, determining the hardness of rock in the core interval, and noting any other important structural features observed.
- Completing the lithologic log sheet.
    - This included documenting the rock type, noting alteration (oxidation, argillation, silicification, sulfidic, epidote, chlorite), logging any additional structures observed in the lithologic interval, and writing a thorough geologic description.
- Sampling the core: this will be discussed in detail in Section 11.
- Taking high resolution photos of the annotated core, both wet and dry.
- Boxing up completely processed core and placing sequentially on pallets in the logging yard to be shipped to the assay lab.

11 Sample Preparation, Analysis and Security

11.1 Sampling Methods and Protocols

11.1.1 Core Sample Preparation

Rock core was typically divided into 5 ft (1.5 m) sample intervals, except for when lithologic breaks occurred down hole. As a result, sample intervals never crossed lithology boundaries to ensure assays accurately reflected potential differences in REE mineralization associated with different rock types within the RMP. Each sample was given a unique sample ID and tag, labeled with the drill hole ID number, sample number, and labelled with sample interval depths.

11.1.2 RC Chip Sampling Preparation

Rock chips were collected in 1.5 m (~5 ft) intervals. Using a rotary sample splitter, the RC drilling produced three separate rock chip samples for each 1.5 m (~5 ft) of depth of the drill hole. These included a sample for the chip trays, one sample for in-house XRF analysis, and one sample for external REE assay. Each sample interval was given a unique, pre-labeled sample ID that is shared between the identical chip tray, XRF, and lab assay samples. Chip trays and XRF samples have been retained and stored for ARR records and future usage. Rock chip trays and assay samples were retrieved from the drill sites daily to be logged and prepared for shipment, respectively. Samples were stored within locked storage units, or in ARR offices at all times until shipped by bonded carrier to ALS Global labs.

11.2 Laboratories

Core samples were sent for assay at American Assay Laboratories (AAL) in Sparks, Nevada which has ISO 17025 Accreditation and is approved by the Nevada Division of Environmental Protection (Appendix F – American Assay Labs Certifications).

Rock chip samples were sent to ALS Global in Twin Falls, ID for processing and sample prep, but were subsequently assayed at ALS Global in Vancouver, British Columbia. ALS Vancouver has an ISO 17025 Accreditation and is also accredited by the Canadian Association for Laboratory Accreditation, Inc (Appendix G – ALS Lab Certifications).

11.3 Sample Preparation and Analyses

Methods for core sample preparation are provided by AAL, and can be observed below:

- Samples are prepared by milling to >90% passing 150 mesh.
- Sample pulps are weighted with QC controls, blanks, CRMs, and sample

duplicates.

- Entire batch of samples digested and brought up to working volume with inclusion of HF, $HClO_4$, HNO_3, HCl, and H_3BO_3 and DI H_2O.
- Samples are analysed on ICP-OES and ICP-MS for ICP-5AM60/REE-5AM60 packages.

Methods for RC chip sample preparation are provided by ALS, and can be observed below:

- Samples undergo fine crushing to 70% passing 2 mm.
- Excessively wet samples undergo drying in drying ovens.
- Samples are pulverised up to 250g to 85% passing 75 µm.
- Samples marked for duplicates are split using a riffle splitter.
- Samples undergo lithium borate fusion prior to acid dissolution.
- Samples are analysed on ICP-MS for ME-MS81 package.

11.4 Security

Prior to sample shipping, all drill core resided in the storage yard which was securely locked when there were no ARR employees on site.

RC chips were stored in a locked shipping container prior shipment.

Core and RC were shipped to the labs via bonded carrier. ARR personnel prepared each shipment and supervised the loading of each shipment.

12 Data Verification and Data Management

12.1 QA/QC Analysis for Spring 2022 Maiden Drilling Program

QA/QC analysis for Rare Earths is at an early stage. Available standards are generally carbonatite sourced and may impact the controls on analysis methodology for silicate-based matrices.

Standards were inserted at a rate of 5.2% (1 standard per 25 samples), blanks were inserted at a rate of 12.6% (1 blank per 10 samples), and duplicates were inserted at a rate of 4.1% (1 duplicate per 25 samples).

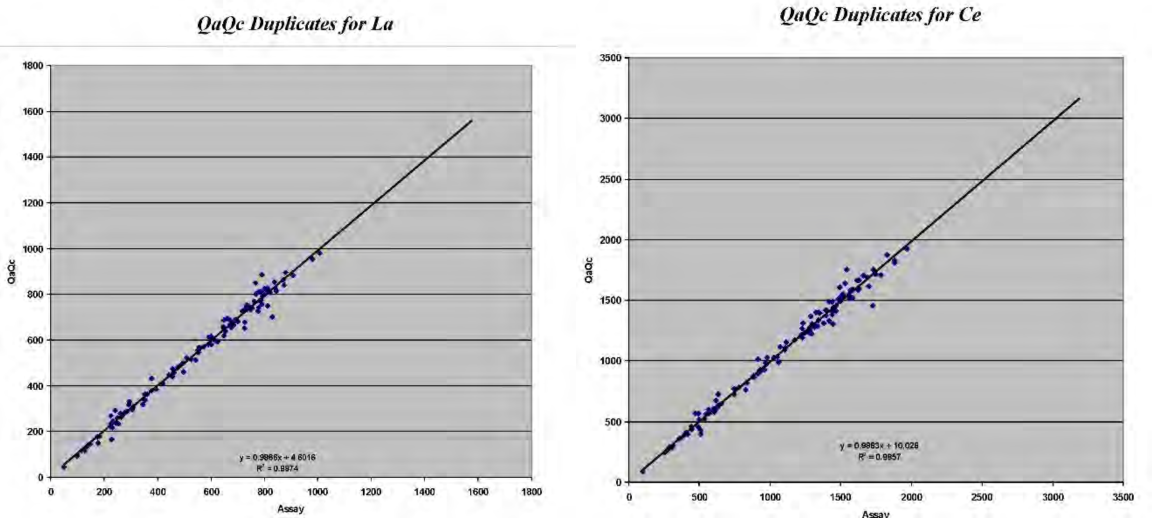
12.1.1 Blanks

ARR sourced blank material for the spring 2022 core drilling from CDN Labs in Langley, British Columbia. This blank material, CDN-BL-10, is a blank for gold and precious metals and derived from a granitic source rock. However, this blank material appears to contain low levels of rare earth elements. As a result, the sample results for the blanks are not as conclusive as ARR would prefer. New sources of blank material exclusive of rare earth elements are being used for future exploration programs.

As part of AAL's internal Qa/Qc, company geologists inserted blank material into the sample stream. The blank material used by AAL is coarse river gravel sourced from the Reno area. The assay results using the AAL river gravel show the absence of rare earth elements.

12.1.2 Duplicates

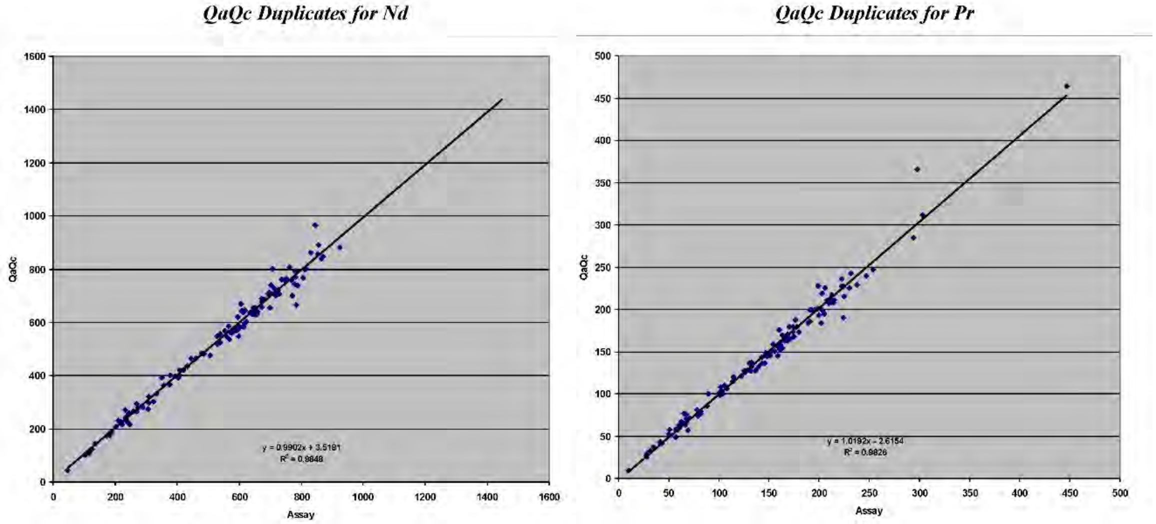
Riffle splits of the coarse rejects were taken for the duplicate samples by AAL and analyzed for the same methods. The results below show that overall, the duplicates indicate acceptable precision with some minor variance on the high and low ends. ARR plotted a regression curve and R^2 factor for select rare earth elements. Figure 18 and Figure 19 illustrate results of duplicate analysis for La, Ce, Nd, and Pr. The R^2 value exceeded 0.97 for all elements, except Terbium, indicating a very high level of correlation in the duplicate samples. Terbium values at Halleck Creek are very low, most times at or below detection limits. As a result, the Terbium values are slightly skewed.



QaQc Duplicates for La

QaQc Duplicates for Ce

Figure 18 - Charts of Duplicates for La and Ce



QaQc Duplicates for Nd

QaQc Duplicates for Pr

Figure 19 - Charts of Duplicates for Nd and Pr

12.1.3 CRM Standards

ARR acquired rare earth standard certified reference material (CRM) from CDN Labs in Langley, British Columbia. ARR inserted CRM standards for low, medium and high rare earths (RE-1201, RE-1202, RE-1203) at a rate of 5.2%, Table 21. As with the blanks and duplicates, the very low Terbium values cause disruptions on the CRM charts.

AAL inserted rare earth CRM material from OREAS labs as part of their internal Qa/Qc procedures. OREAS 600b was the most common CRM used by AAL.

Table 21 - Summary of CRMs used during Maiden Drilling Program

Element	Recommended Value (ppm)						
	CDN-RE-1201 (2SD)	CDN-RE-1202 (2SD)	CDN-RE-1203 (2SD)	OREAS 245 (2SD)	OREAS 279 (2SD)	OREAS 600b (2SD)	OREAS 602b (2SD)
Cerium	1327 ± 110	3199 ± 257	8110 ± 624	66 ± 58	29.8 ± 26.8	93.0 ± 16	51.0 ± 9
Lanthanum	959 ± 107	2488 ± 246	6508 ± 422	32.6 ± 28.1	16.2 ± 14.6	44.1 ± 10	23.5 ± 4.3
Neodymium	311 ± 18	666 ± 54	1573 ± 101	29.0 ± 25.9	14.9 ± 13.0	39.6 ± 8.2	21.8 ± 3.7
Praseodymium	112 ± 7	252 ± 16	619 ± 32	7.82 ± 6.98	3.82 ± 3.52	10.7 ± 1.8	6.52 ± 0.9
Dysprosium	14.3 ± 0.9	20.5 ± 1.9	36.1 ± 3.3	2.74 ± 1.71	1.81 ± 1.70	3.50 ± 0.38	2.06 ± 0.51

12.2 QA/QC Analysis for Fall 2022 RC Drilling Program

Certified reference material was inserted at a rate of 1.64% (1 standard per 21 samples), blanks were inserted at a rate of 1.67 % (1 blank per 21 samples), and duplicates were inserted at a rate of 1.67 % (1 duplicate per 21 samples).

12.2.1 Blanks

ARR sourced blank material for the fall 2022 RC drilling campaign from OREAS North America in Sudbury, Ontario CA. The blank material, OREAS-22h, is a quartz sand blank to which 0.5% Fe-oxide has been added to produce a pale grey pulp. The blanks contain very low levels of REEs, which are shown in Table 22 below. Only one sample exhibited possible contamination. Regardless, the potential contamination of that sample (HC22-1569) only exhibited low REE concentrations and is not cause for concern (Figure 20 through Figure 25).

Table 22 – REE Concentrations in OREAS-22h Blank

Constituent	Certified Value* (ppm)	2SD* (high)
Cerium	2.11	2.75
Lanthanum	1.02	1.30
Dysprosium	0.11	-
Erbium	0.063	-
Europium	<0.05	-
Gadolinium	0.14	-
Holmium	0.022	-
Lutetium	0.011	-
Praseodymium	0.23	-
Samarium	0.17	-
Terbium	0.017	-
Thulium	<0.02	-
Yttrium	0.61	0.71
Ytterbium	0.071	-

*Option of 2SD low or 2SD high from OREAS-22h certificate

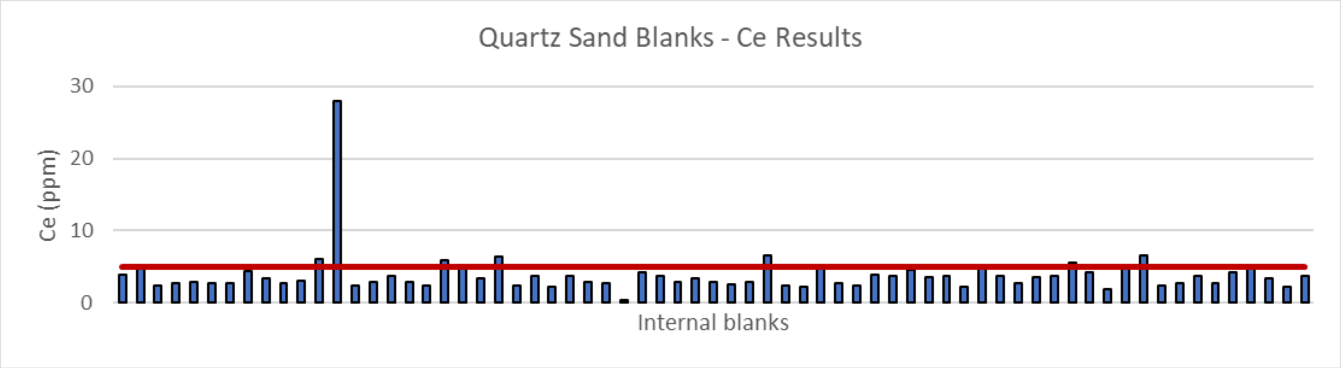


Figure 20 - Chart of internal OREAS 22-h blank for Ce

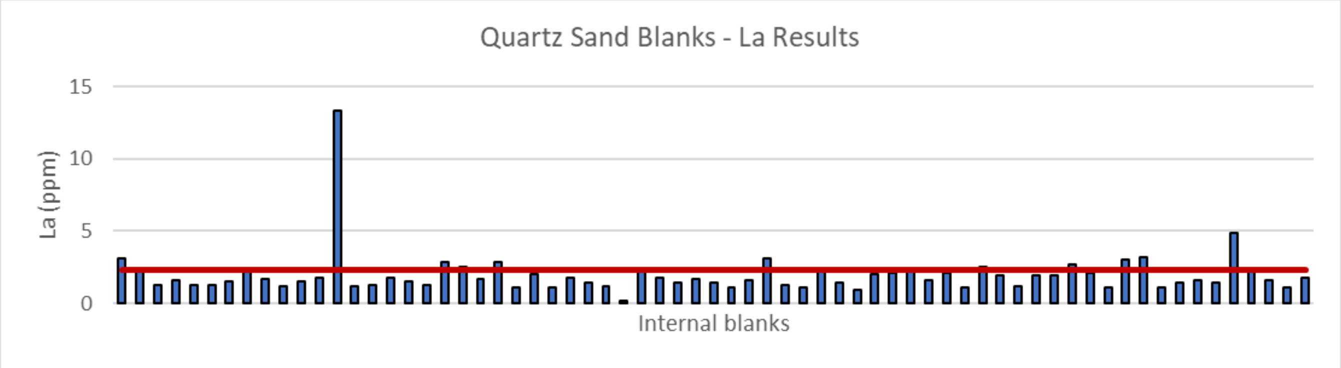


Figure 21 - Chart of internal OREAS 22-h blank for La

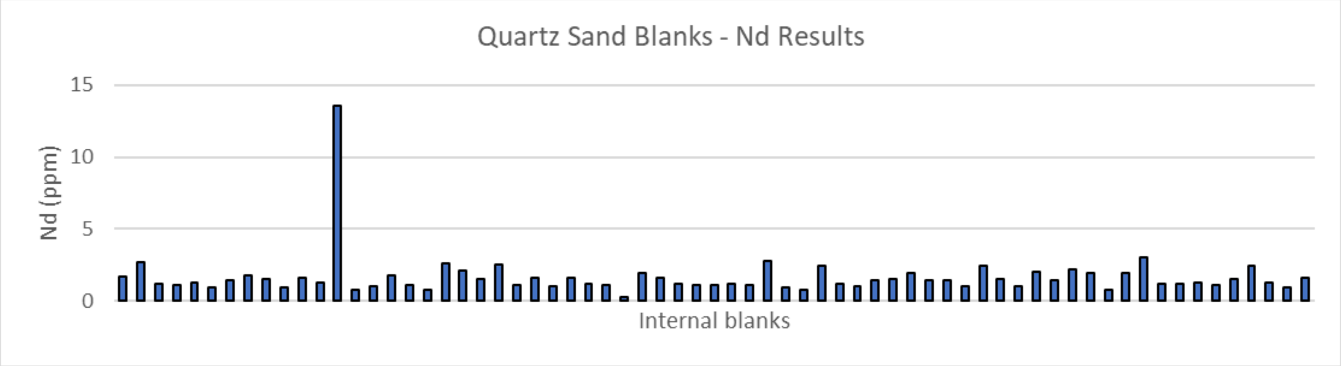


Figure 22 – Chart of internal OREAS 22-h blank for Nd

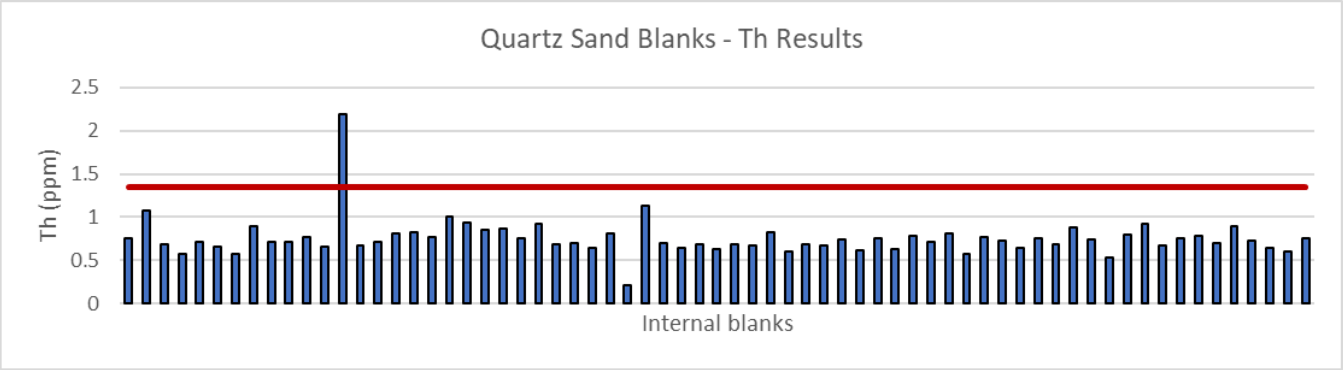


Figure 23 – Chart of internal OREAS 22-h blank for Pr

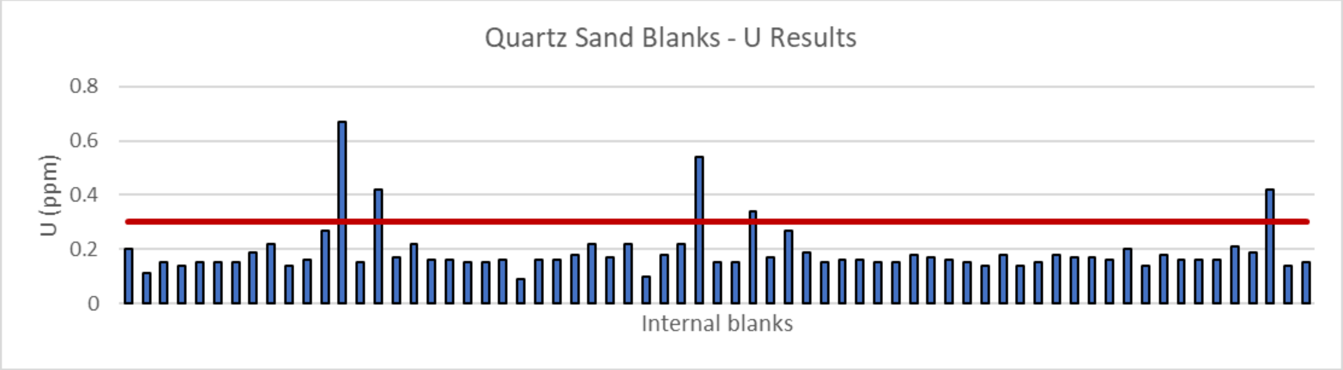


Figure 24 – Chart of internal OREAS 22-h blank for U

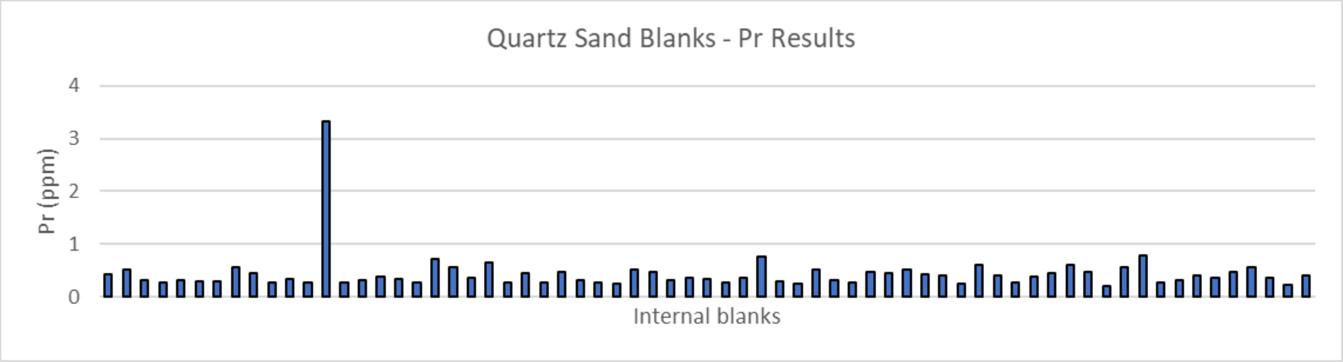
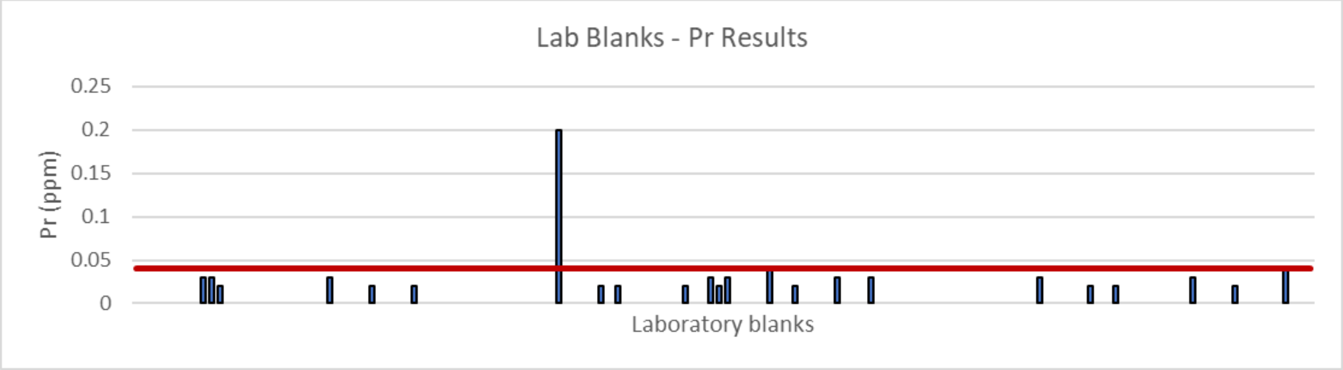


Figure 25 – Chart of internal OREAS 22-h blank for Th

As part of ALS's internal Qa/Qc, additional blank material was inserted into the sample stream. The blanks utilized by ALS also contain very low quantities of REEs, and only one sample was shown to be above upper acceptable bounds as determined by the lab (Figure 26 through Figure 29).



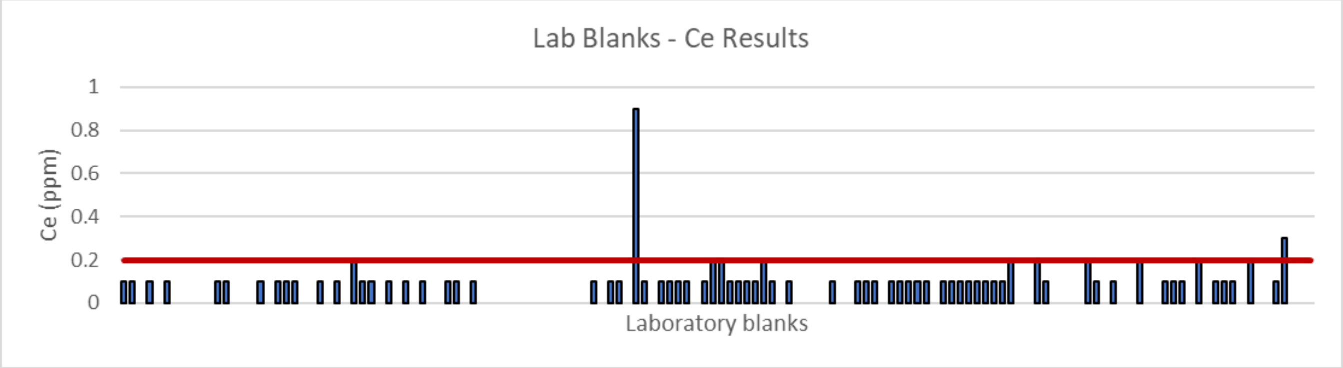


Figure 26 – Chart of laboratory blank for Ce

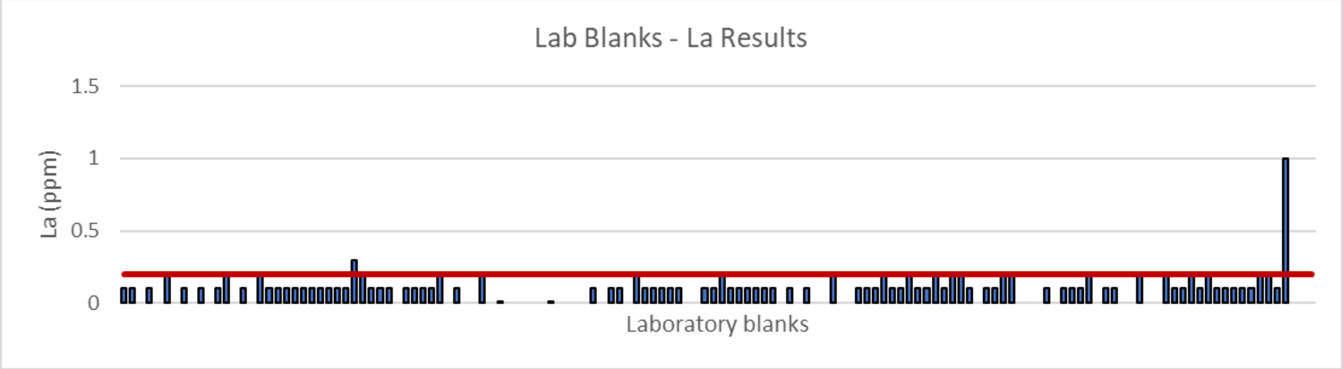


Figure 27 – Chart of laboratory blank for La

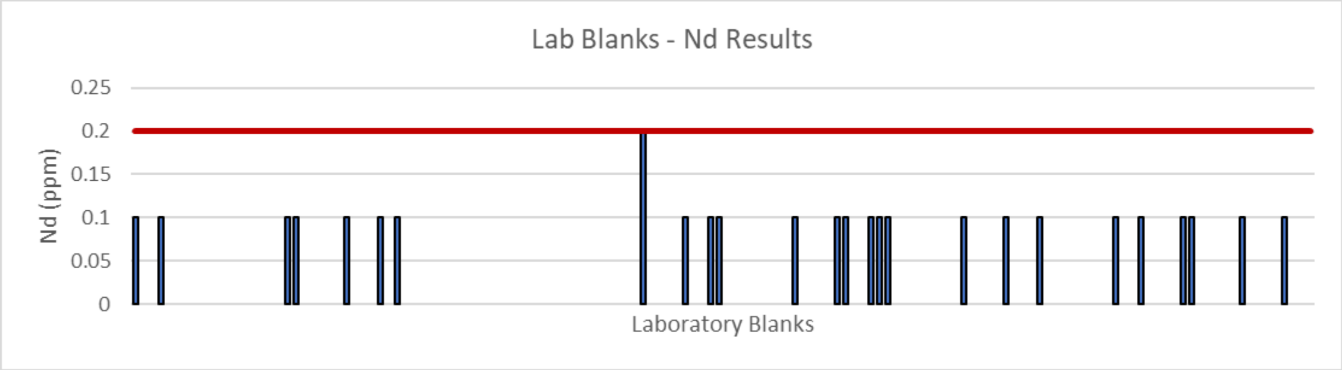


Figure 28 – Chart of laboratory blank for Nd

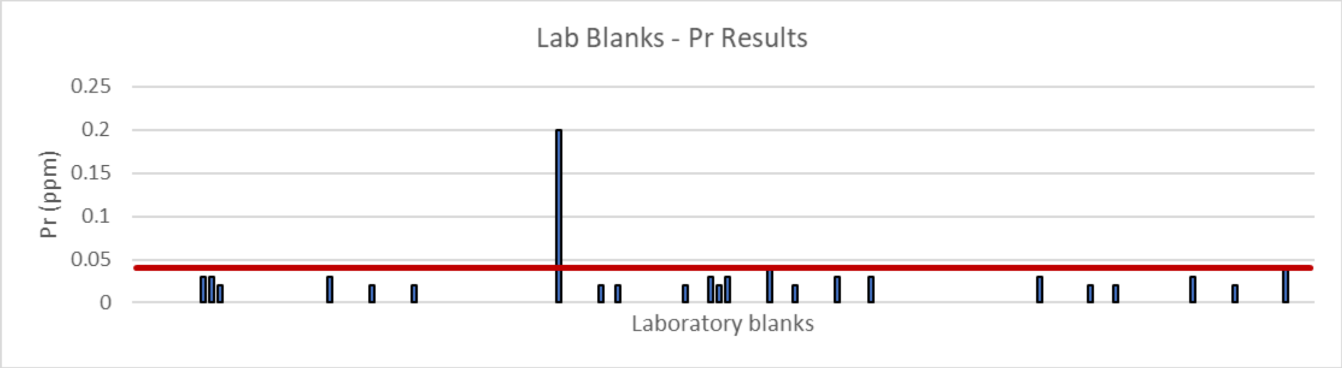


Figure 29 – Chart of laboratory blank for Pr

12.2.2 Duplicates

Riffle splits of coarse rejects were taken for duplicate samples indicated by ARR and by ALS for internal Qa/Qc purposes. The results how that the duplicates indicate acceptable precision with minor variance on the high and low ends. ARR plotted a regression curve and R2 factor for TREE, Ce, La, Nd, and Pr shown in Figure 30 through Figure 32. The R2 value exceeded 0.993 for all 5 values, indicating a very high level of correlation in the duplicate samples.

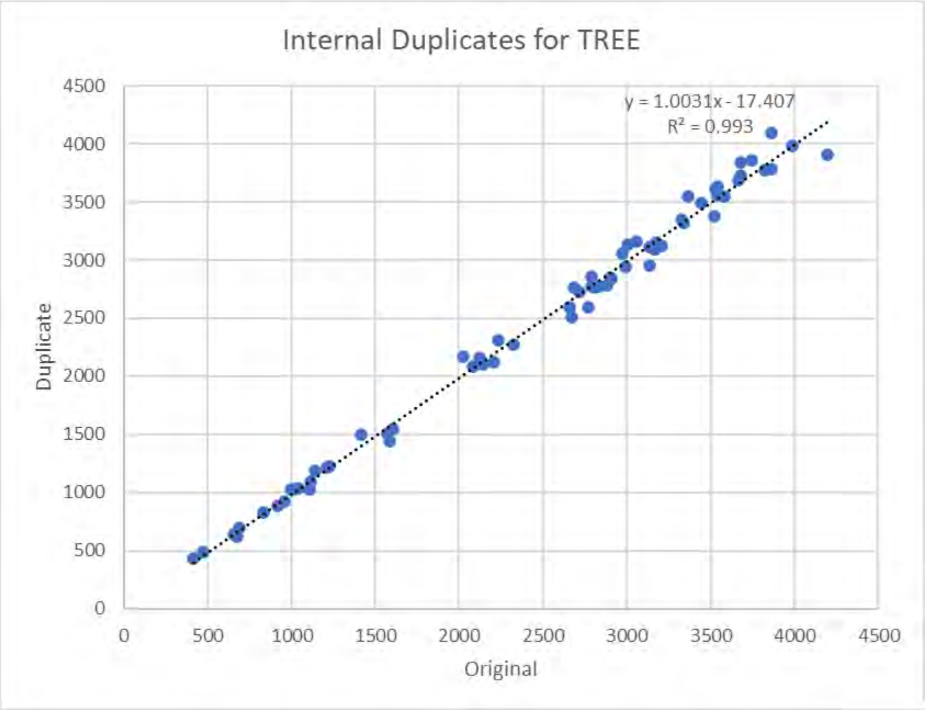


Figure 30 – Chart of internal duplicates for TREE

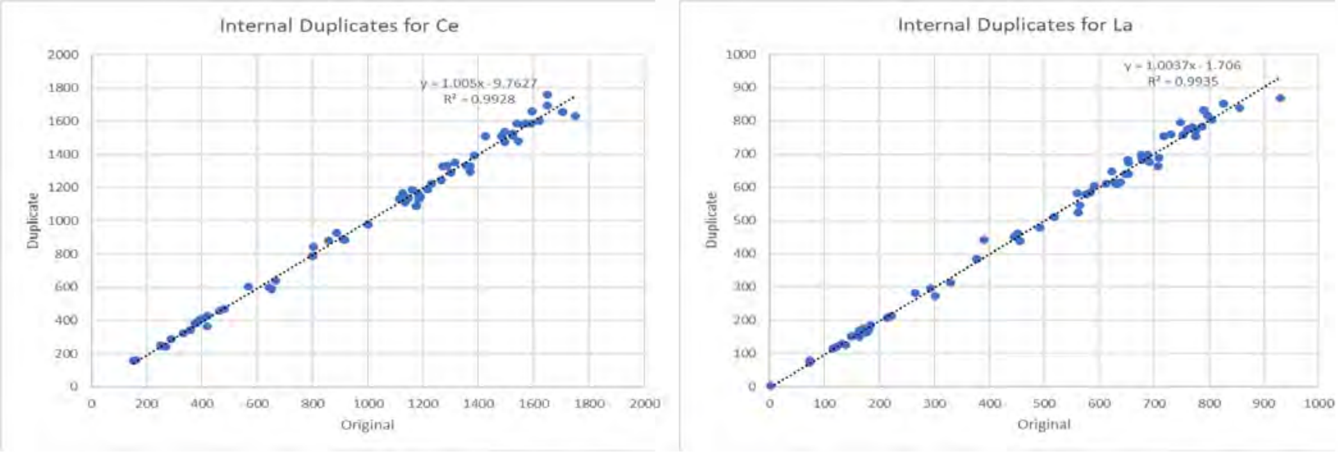


Figure 31 – Charts of internal duplicates for Ce and La

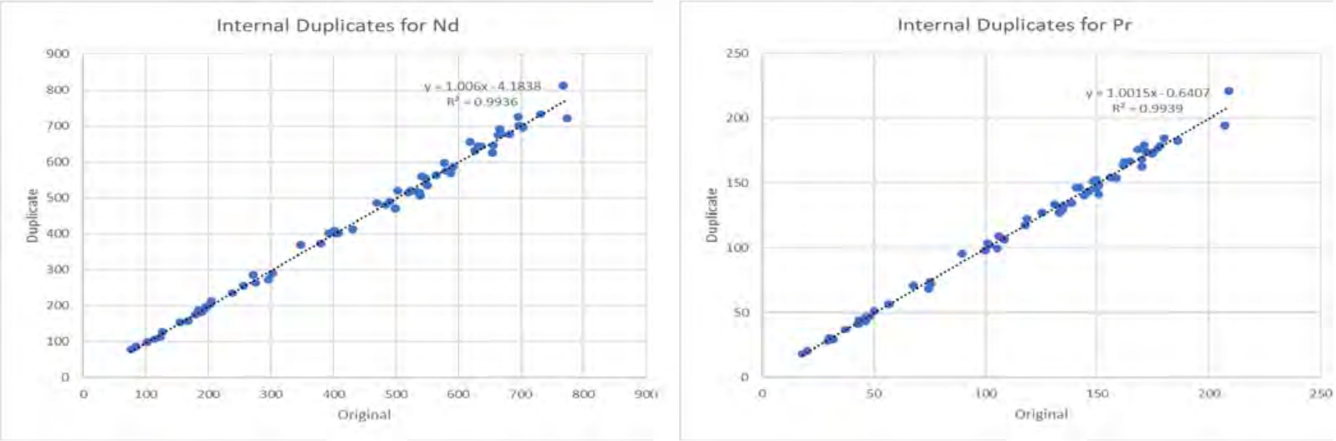


Figure 32 – Charts of internal duplicates for Nd and Pr

ALS also prepared riffle splits of coarse rejects for select samples from each workorder received. In total, ALS analyzed 120 duplicates. Their results also indicate acceptable precision with minor variance for higher grade samples. ARR plotted a regression curve and R2 factor for TREE, Ce, La, Nd, and Pr, show in Figure 33 through Figure 35. The R2 value exceeded 0.996 for all 5 values, indicating a very high level of correlation in the duplicate samples.

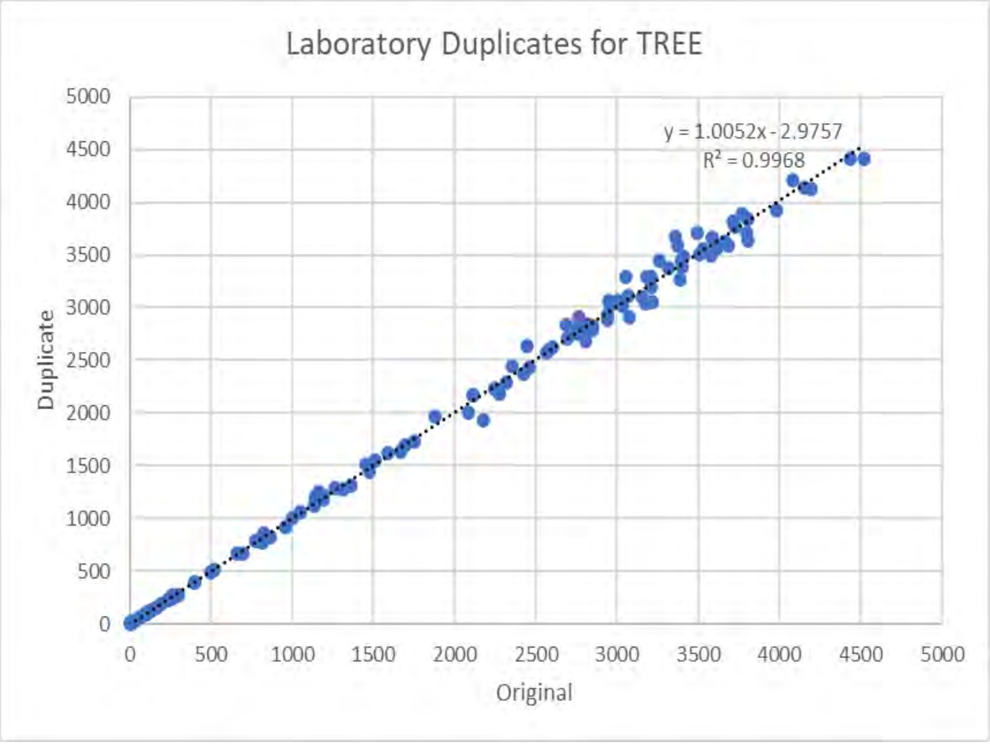


Figure 33 – Chart of laboratory duplicates for TREE

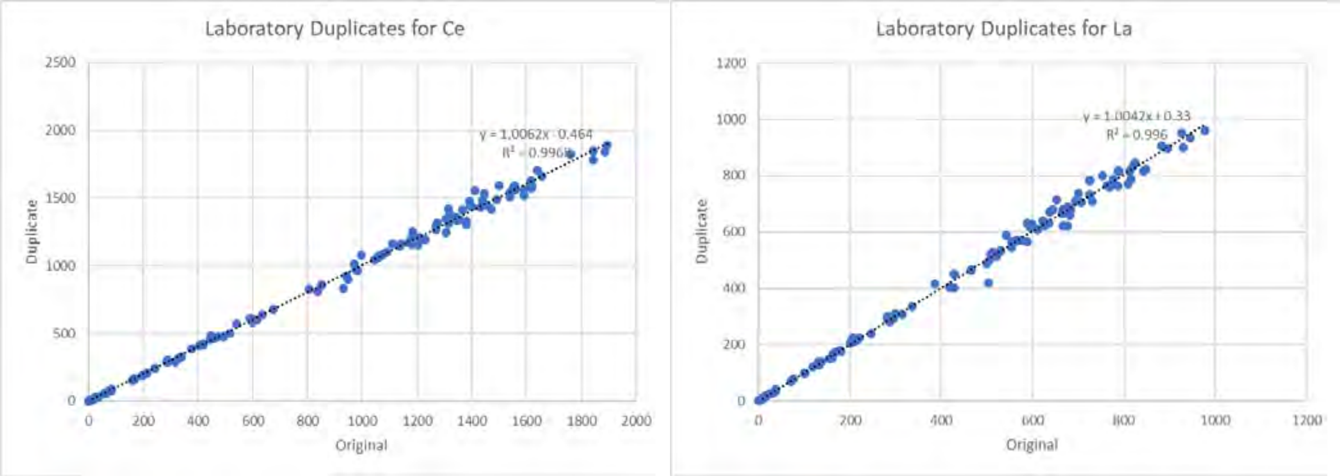


Figure 34 – Chart of laboratory duplicates for Ce and La

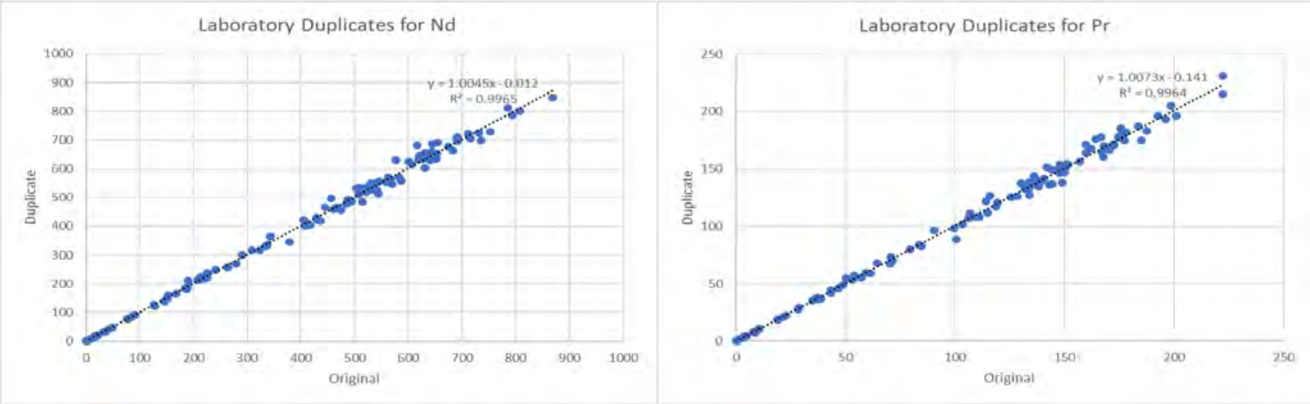


Figure 35 – Chart of laboratory duplicates for Nd and Pr

12.2.3 CRM Standards

ARR acquired rare earth standard certified reference material (CRM) from CDN Labs in Langley, British Columbia. ARR inserted CRM standards for low, and medium rare earths (RE-1201 and RE-1202) at a rate of 5.2%. ALS inserted rare earth CRM material from multiple sources including African Mineral Standards (AMiS), OREAS labs, and from the Canadian Certified Reference Materials Project (CCRMP).

Table 23 - Summary of CRMs used during Fall 2022 RC Program

Element	Recommended Value (ppm)					
	CDN-RE-1201 (2SD)	CDN-RE-1202 (2SD)	AMiS0304 (2SD)	OREAS 101b (1SD)	OREAS146 (1SD)	SY-5 (1SD)
Cerium	1327 ± 110	3199 ± 257	8090 ± 692	1331 ± 135	4691 ± 360	459 ± 27
Lanthanum	959 ± 107	2488 ± 246	3610 ± 311	789 ± 66	2513 ± 185	225 ± 11
Neodymium	311 ± 18	666 ± 54	3875 ± 442	378 ± 35	2182 ± 192	208.1 ± 6.9
Praseodymium	112 ± 7	252 ± 16	1007 ± 89	127 ± 9	548 ± 36	55.3 ± 2.5
Dysprosium	14.3 ± 0.9	20.5 ± 1.9	N/A	32.1 ± 1.5	224 ± 16	11.33 ± 0.39

The majority of all CRM standards from both internal and laboratory QaQc fell within acceptable standards, with the exception of few minor outliers as observed in Figure 36 through Figure 46.

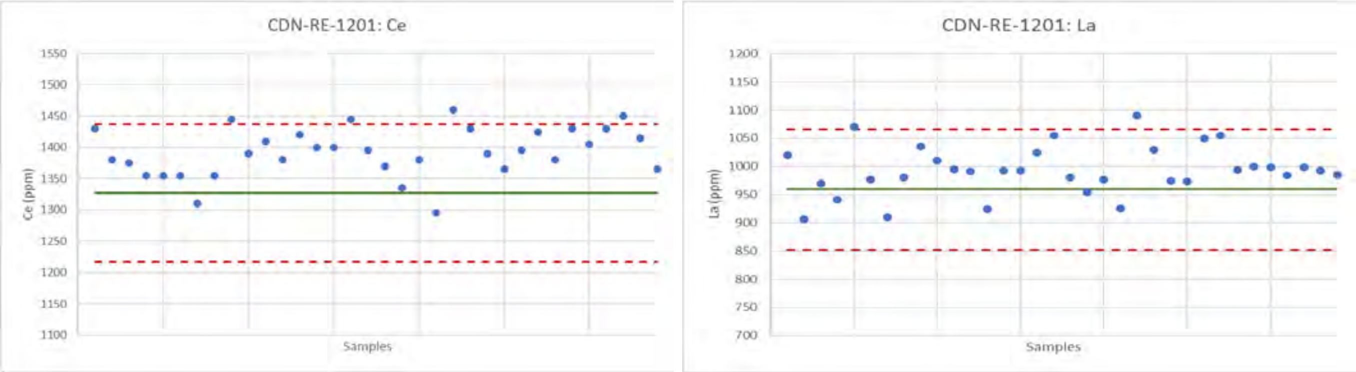


Figure 36 – Graphs of internal CRM tolerances for Ce and La: CDN-RE-1201

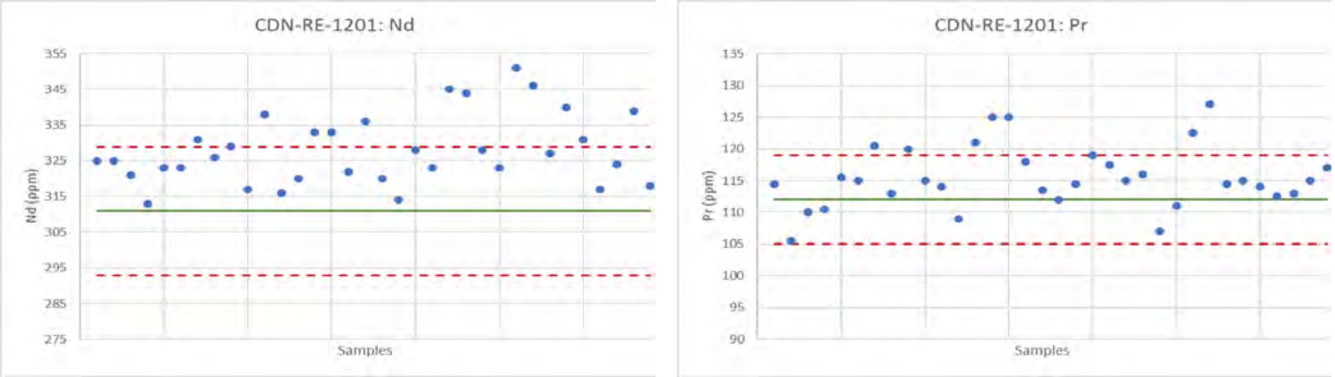


Figure 37 – Graphs of internal CRM tolerances for Nd and Pr: CDN-RE-1201

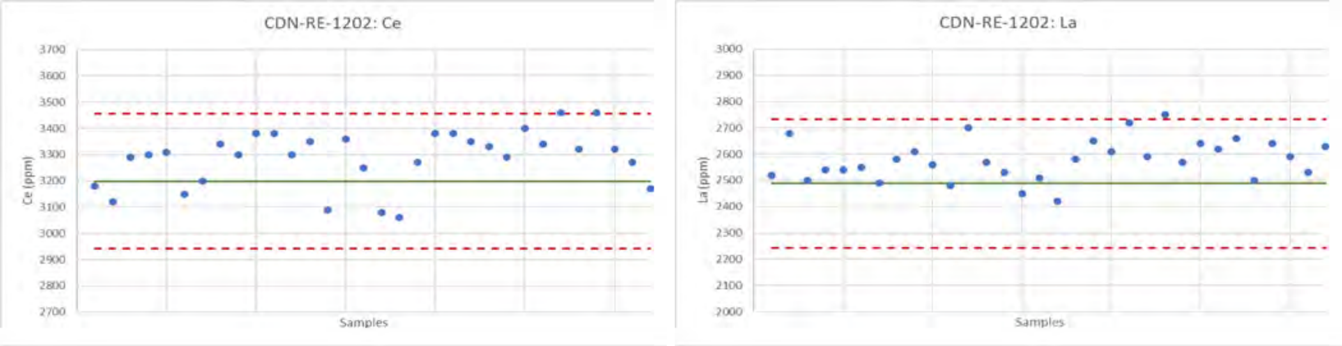


Figure 38 – Graphs of internal CRM tolerances for Ce and La: CDN-RE-1202

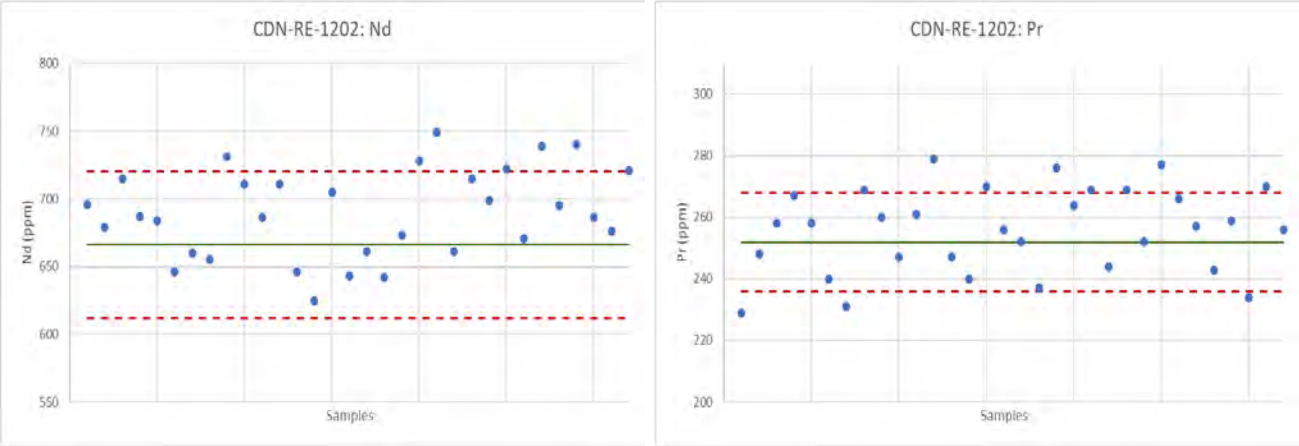


Figure 39 – Graphs of internal CRM tolerances for Nd and Pr: CDN-RE-1202

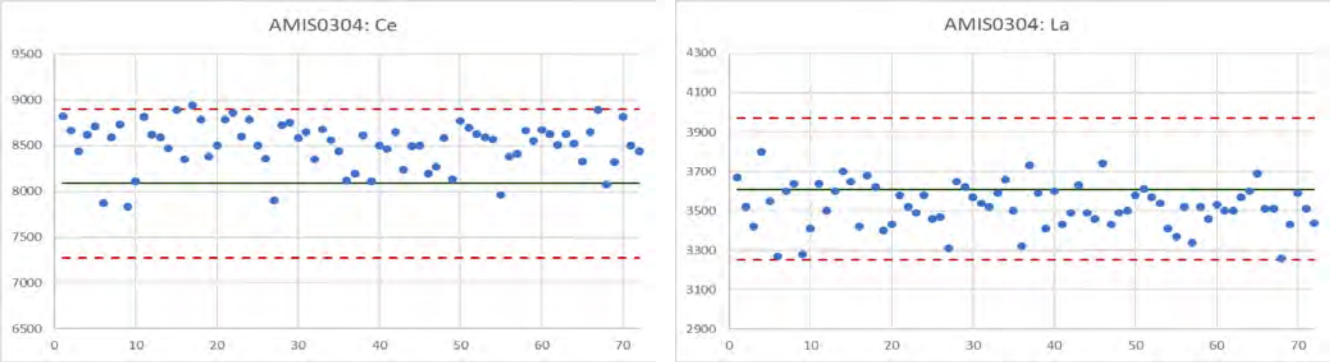


Figure 40 – Graphs of laboratory CRM tolerances for Ce and La: AMiS0304

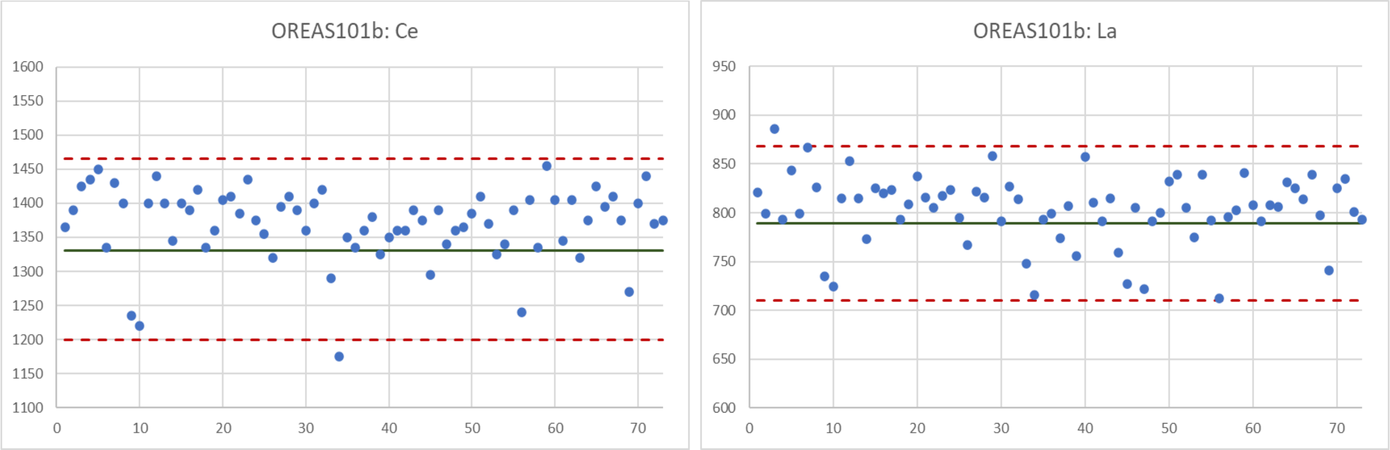
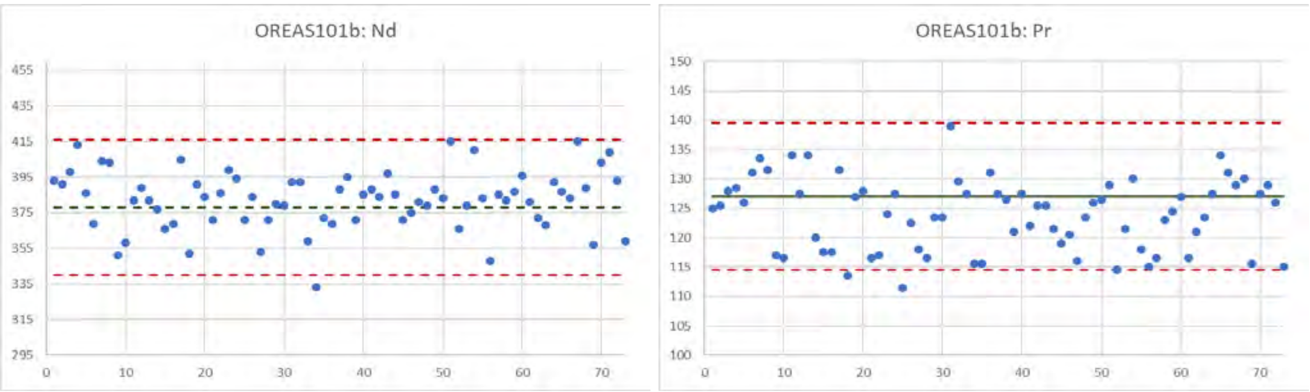
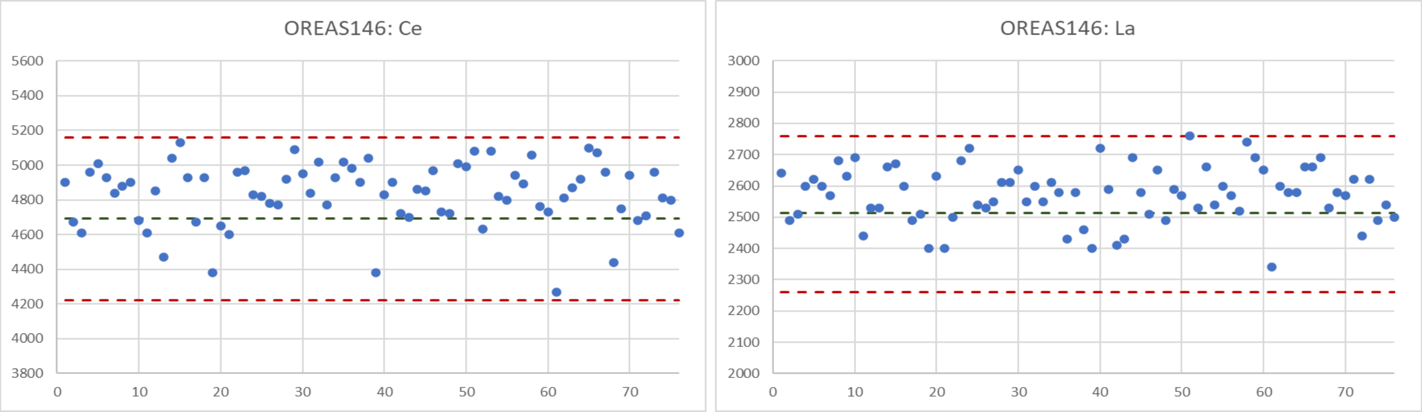


Figure 41 – Graphs of laboratory CRM tolerances for Ce and La: OREAS101b


OREAS101b: Nd

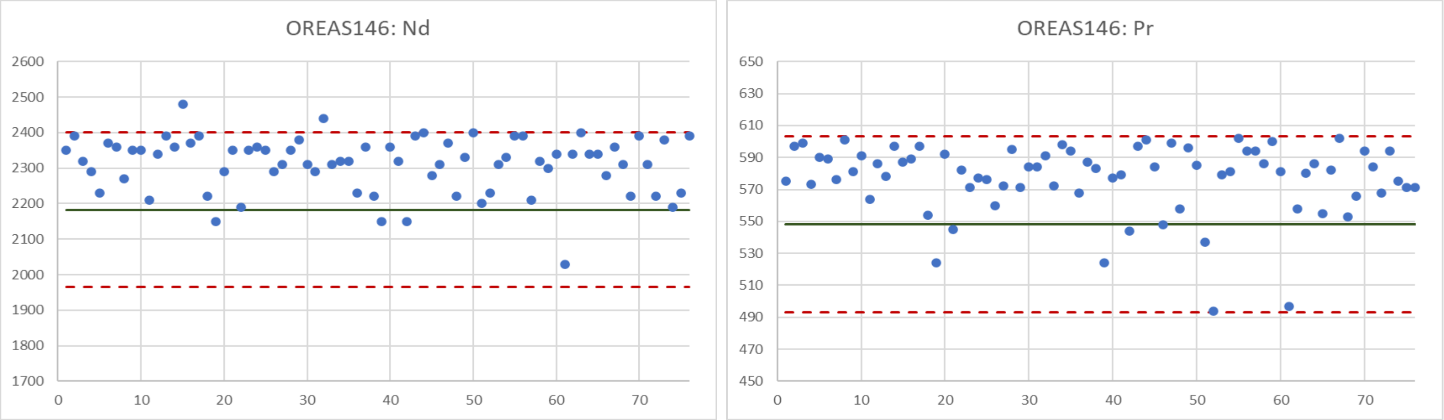
OREAS101b: Pr

Figure 42 – Graphs of laboratory CRM tolerances for Nd and Pr: OREAS101b


OREAS146: Ce

OREAS146: La

Figure 43 – Graphs of laboratory CRM tolerances for Ce and La: OREAS146


OREAS146: Nd

OREAS146: Pr

Figure 44 – Graphs of laboratory CRM tolerances for Nd and Pr: OREAS146

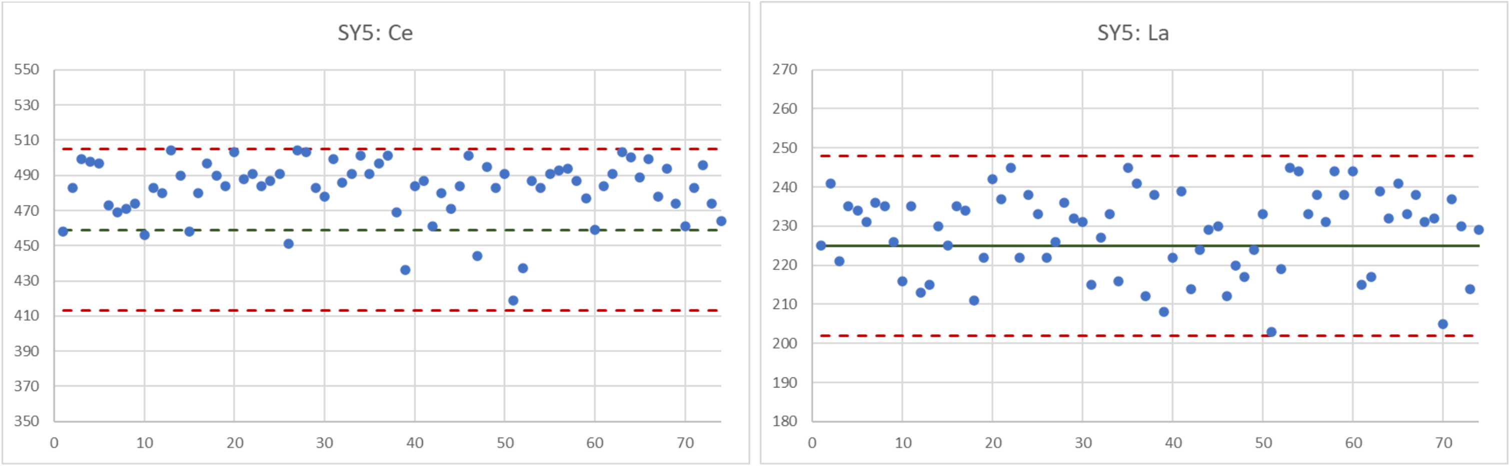


Figure 45 – Graphs of laboratory CRM tolerances for Ce and La: SY5

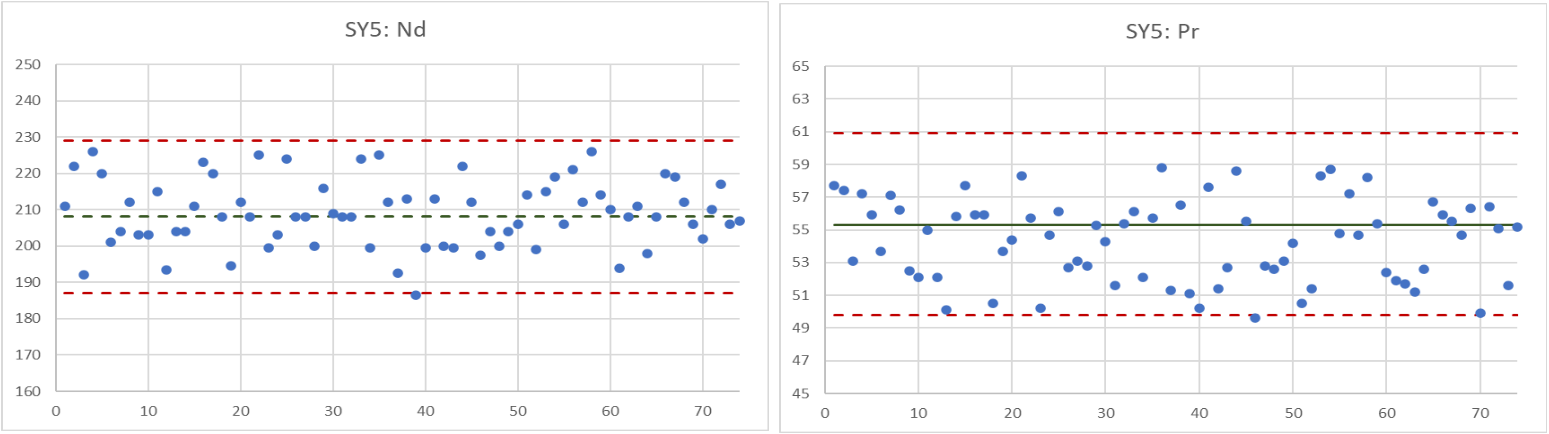


Figure 46 – Graphs of laboratory CRM tolerances for Nd and Pr: SY5

12.3 Database

All drill hole and surface sample data for the Halleck Creek project was imported into the DHDB drill hole database system. DHDB was written and maintained by Dwight Kinnes of Highland GeoComputing, LLC, and has been in used by various mining companies since 2004. Highland GeoComputing, LLC tailored DHDB to store and process rare earth element data. The DHDB database provides complete access to all drilling records, scanned field logs, analytical data and allows for processing and reporting of the Halleck Creek drill hole data (Table 24).

Table 24 - Data Type and Counts in DHDB

Data Type	Number
Core Holes	9
Reverse Circulation Holes	38
Channel Samples	14
Surface Samples	513
Core Assays	675
RC Chip Assays	4036
Surface/Channel Sample Assays	557
Blanks (ARR/Lab)	190
Duplicates (ARR/Lab)	196
CRM Standards (ARR/Lab)	160

12.4 Data Management

DHDB provides secure user access and audit tracking within the database.

Assay and QaQc data is imported directly from certified data supplied by laboratories. Therefore, data entry errors are minimal.

Detailed validation queries are applied to the drill hole data to minimize data entry errors. Validation includes:

- checking for gaps and overlaps in lithology, alteration and assay data.
- Cross-referencing total depths of collar and lithologic data
- Cross-referencing to data dictionaries to restrict data entry to approved values.

Original field logs, core and chip sample photos, certified assay certificates, and other drill hole specific data is stored with DHDB and cross-referenced with each drill hole. This data is directly accessible from DHDB.

Detailed drill hole reports from DHDB for Halleck Creek reside in

12.5 General Database Components

Drill hole, trench and surface sample locations are stored in DHDB using the NAD 1983, UTM Zone 13 coordinate system. WGS 1984 latitude and longitude coordinates are stored as secondary coordinates in DHDB.

Lithologic and Assay sample depths are stored in feet and meters.

Assay data is stored in DHDB as elemental data in units of parts per million (ppm). Conversion of rare earth elemental data to rare earth oxide data is performed using the values listed in the conversion Table 6 above.

13 Mineral Processing and Metallurgical Testing

13.1 Historic Metallurgical Testwork of Surface Samples

Preliminary metallurgical testwork has been performed at the Halleck Creek project area on surface channel samples. The preliminary test work was performed by Nagrom on behalf Zenith who owned the Halleck Creek project prior to ARR.

Nagrom performed preliminary processing and metallurgical tests on sample pulps from 87 surface samples and channel samples collected at Halleck Creek in 2019 (Table 25).

Table 25 - Metallurgical Testwork performed by Zenith

Company	Testwork
Townsend Mineral Laboratory	Optical/SEM of four allanite bearing products
Townsend Australia	Semi-quantitative XRD analysis
Nagrom	Sizing and Wet High Intensity Magnetic Separation (WHIMS)

In a press release from February 11, 2020, Zenith stated that "mineral separation by magnetic methods recovered 87% of the REE minerals into 27% of the mass whilst rejecting 73% of the waste material at a crush size of -0.5mm. The magnetic separation results were from rougher magnetic separation and two scavenger passes.

Zenith also stated that "mineral separation using gravity methods recovered 76% of the REE minerals into 22% of the mass whilst rejecting 78% of the waste material at a crush size of -2mm."

13.2 Current Metallurgical Testwork

In September 2022, ARR commissioned Wood PLC, Perth, Western Australia, Australia to oversee detailed processing testwork on Halleck Creek Core samples. The objective of the testwork is to develop preliminary processing flowsheets for use in planning, development, and economic evaluation of the Halleck Creek project.

The scope of the metallurgical testwork includes:

- Hydrostatic testing of core to determine specific gravity
- Mineralogical Characterization (performed by SGS Lakefield)
- Grinding and Comminution

- Magnetic Separation (WHIMS)
- Flotation
- Leaching

Wood Australia is providing project management for the testwork. Nagrom Labs in Perth WA is performing hydrostatic testing, grinding and comminution, magnetic separation, and leach testing. SGS, in Lakefield Ontario performed mineralogical characterization testing, described in Section 7 above. Auralia Metallurgy, also in Perth WA, is performing flotation.

13.2.1 Core Samples

ARR selected approximately 21 core samples from four drill holes for the metallurgical testwork. ARR shipped approximately 648.4 kg of core to from Nagrom (Table 26). The core samples were CQM rocks representative of the rock material in the Red Mountain and Overton Mountain resource areas.

Table 26 - Core Samples for Metallurgical Testwork

Drill Hole ID	Mass (kg)	Drill Hole ID	Mass (kg)
HC22-RM002	29.58	HC22-OM003	28.60
HC22-RM002	27.46	HC22-OM003	31.10
HC22-RM002	34.04	HC22-OM003	43.42
HC22-RM002	29.12	HC22-OM003	26.94
HC22-RM003	35.88	HC22-OM003	32.26
HC22-RM003	32.50	HC22-OM003	31.16
HC22-RM003	32.78	HC22-OM004	30.90
HC22-RM003	21.90	HC22-OM004	36.86
HC22-RM003	28.58	HC22-OM004	31.78
		HC22-OM004	15.98
		HC22-OM004	32.66
		HC22-OM004	34.90
Subtotal	**271.84**		**376.56**
Total			**648.40**

13.2.2 Hydrostatic Testing

Nagrom performed hydrostatic testing on 10 core samples to determine the specific gravity of the Halleck Creek core. Specific gravity was determined for untreated and wax impregnated samples. Table 27 summarizes the results of the hydrostatic testing.

Table 27 - Specific Gravity Determination

Sample ID	Bag No.	Mass (kg)	SG	SG RPT	SG (Wax)	SG (Wax) RPT
HC22-RM002	1	0.50	2.68		2.69	
HC22-RM002	3	0.49	2.67		2.64	
HC22-RM003	5	0.31	2.66	2.68	2.65	2.64
HC22-RM003	7	0.38	2.71		2.75	
HC22-RM003	9	0.31	2.68		2.65	
HC22-OM003	11	0.59	2.79	2.79	2.78	2.77
HC22-OM003	13	0.40	2.69		2.67	
HC22-OM003	15	0.37	2.70		2.70	
HC22-OM004	17	0.37	2.72	2.71	2.69	2.70
HC22-OM004	19	0.35	2.68		2.66	
Wt. Avg.		**4.05**	**2.70**	**2.74**	**2.69**	**2.72**

Overall, the range of specific gravity values was very low. This is because the rock types at Halleck Creek are very homogeneous. Based on the results of hydrostatic testing ARR will use a specific gravity of 2.70 to compute tonnage from volumetric estimates compiled in Section 14.

13.2.3 Grinding and Comminution Testing

SMC testing was performed by JKTech, a research laboratory and consultant arm of the University of Queensland, to produce data for the sizing of SAG mills. This work was overseen by Wood, PLC on behalf of ARR. SMC Testing Pty Ltd (SMCT) has tested ores from over 2000 different orebodies around the world. A full copy of the SMC testing report resides in Appendix H – SMC TEST® REPORT.

The SMC test work results indicate low ore competency which would translate to low specific energy consumption in a SAG mill. Compared to SMCT's global database of over 2000 deposits, Halleck Creek was rated in the 14th percentile for ore competency. The Bond abrasion index test returned a value of 0.24, which is below the average of Wood Australia's database. The Bond ball mill work index test result of 15.6 kWh/t is close to average hardness relative to Wood's database.

The combination of values suggest that Halleck Creek ore should be suitable for processing in a SAG-Ball mill configuration without the need for pebble crushing and could also be processed in a single stage SAG mill. Other modes of grinding, such as high-pressure grinding mills and vertical roller mills may also be considered down track when sufficient sample mass is available for testing.

The SMC test results indicate there could be significant energy savings due to the ore's low competency and likely coarse primary grind as indicated by mineralogy. Apart from energy savings, the less abrasive ore will lead to reduced wear and tear on equipment and lower maintenance costs.

13.2.4 Magnetic Separation

Under the guidance of Wood Australia, Nagrom Laboratories conducted initial batch WHIMS testing on the Halleck Creek core samples from the maiden drill campaign. Sub-samples of crushed Halleck Creek diamond drill core were subjected to wet rod mill grinding to three P_{80} grind sizes – 500, 250 and 106 microns. Mineralogy results, reported previously, indicated a high degree of liberation at these grind sizes. Progressive magnetic field strengths of 3000, 6000, 10000 and 17000 Gauss were applied in order to establish optimal conditions for bulk primary grinding and WHIMS processing. This approach followed previous Zenith Minerals testing on surface chips to allow a direct comparison against historical test results.

A plot of cumulative TREO+Y grade against recovery is shown in Figure 47.

Recovery at 3000 Gauss is high (50 to 61%) given that this is typically the realm of magnetite and pyrrhotite. A potential reason for this is binary association of allanite with these ferromagnetic minerals at these grind sizes as paramagnetic allanite usually responds at higher field strengths of 6000 Gauss or more. The graph shows that recovery drops substantially at the finer 106 microns grind size, indicating allanite is becoming liberated and is lost to non-magnetics.

Passing first stage 3000 Gauss non-magnetics through the WHIMS unit at 6000 Gauss saw spike in TREO+Y grade as well as recovery, which is a more predictable response and supports mineralogical findings of a high degree of allanite liberation. Cumulative recoveries have become normalized in a narrow band of 87 to 91%.

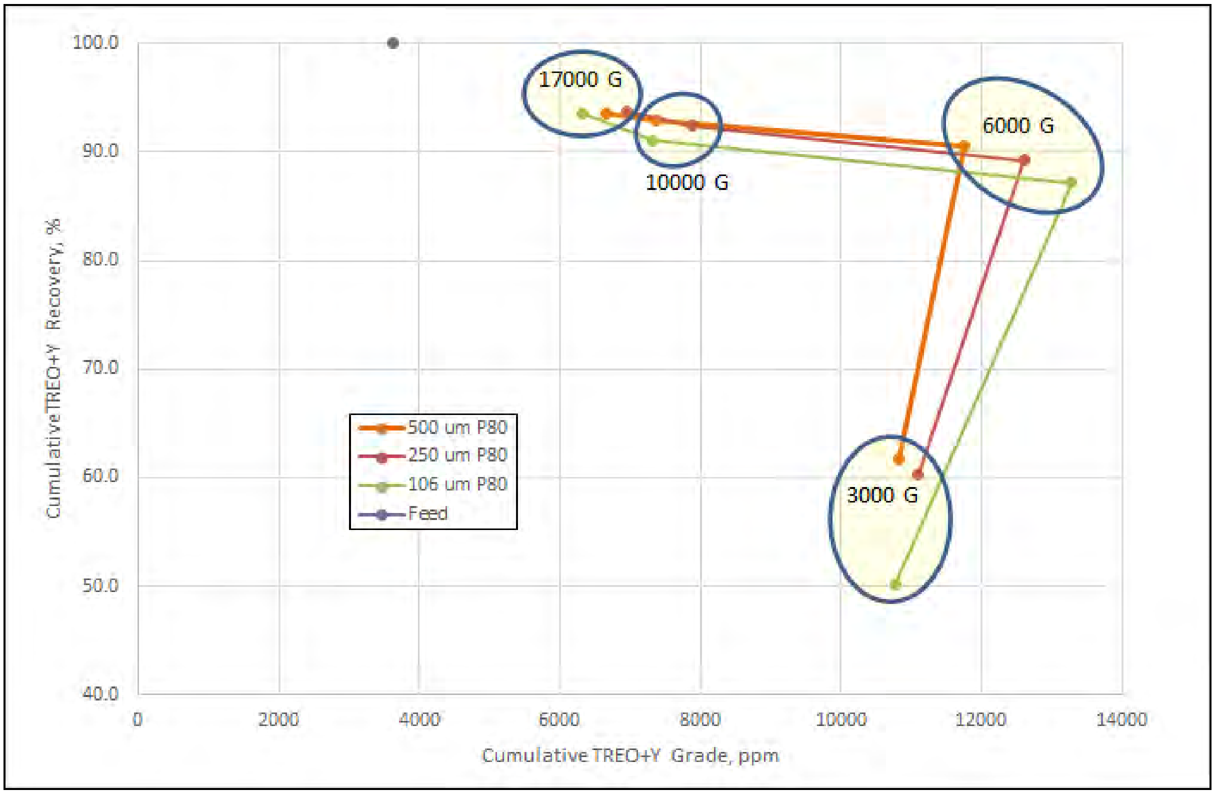


Figure 47 - Progressive Primary WHIMS TREO+Y Grade-Recovery Plots at Three Grind Sizes

At 10000 Gauss the stage grade and recovery fall away, which indicates co-recovery of partially locked minerals and less magnetic iron minerals such as goethite and Fe feldspars. TREO+Y recovery tapers off due to falling grades and stage mass yields. Allanite in this stage is most likely partially locked with silica/silicates.

At 17000 Gauss, most of the remaining REO+Y and iron oxides are recovered, with all three tests returning similar cumulative recoveries of around 93.5%. However, this incremental recovery step has a deleterious effect on cumulative grade with this increased addition of lower grade material, likely to be mostly locked.

A plot of results for the Zenith Minerals surface chips test and current results on diamond drill core for the 500 microns P_{80} grind are presented as Figure 48.

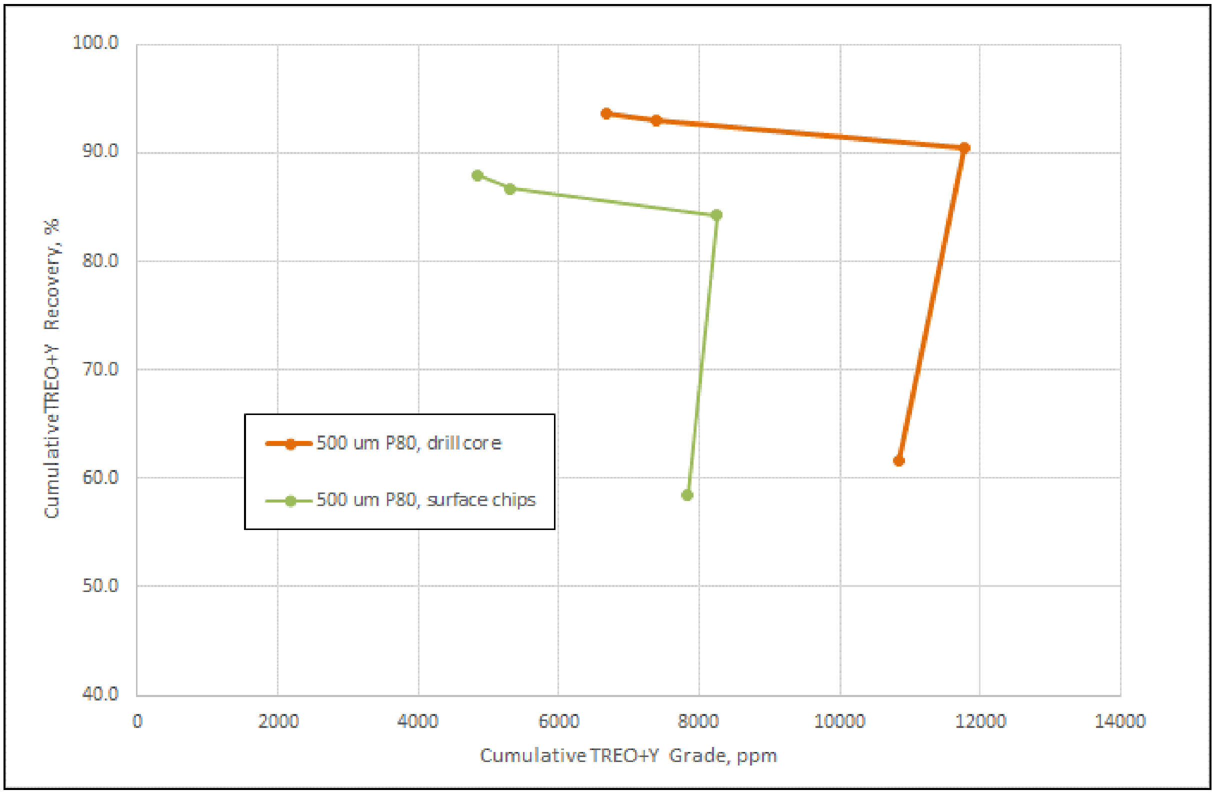


Figure 48 - Grade-Recovery Plot for Surface Chip and Drill Core Results, 500 microns P_{80}

The new results see a positive shift in grade-recovery for the current sample, but the starting grade is higher at 3618 ppm compared with 2382 ppm for the previous sample. Upgrade ratios are slightly higher for the surface chip sample, possibly due to it having experienced chemical weathering.

Iron oxides also upgrade with increasing field strength, initially magnetite dominant, but moving into hematite and iron silicate ranges at higher Gauss levels. Finer grind sizes produce higher grades but see little reduction in iron recovery, as depicted in Figure 49.

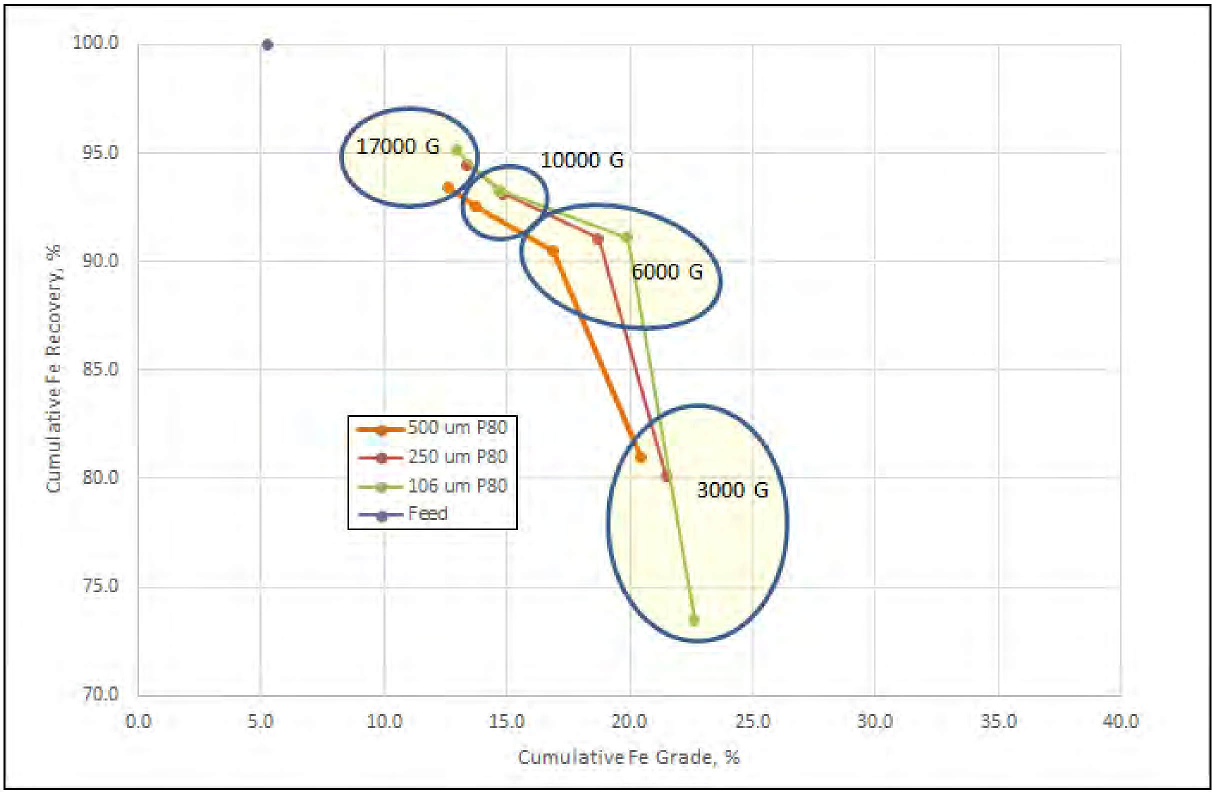
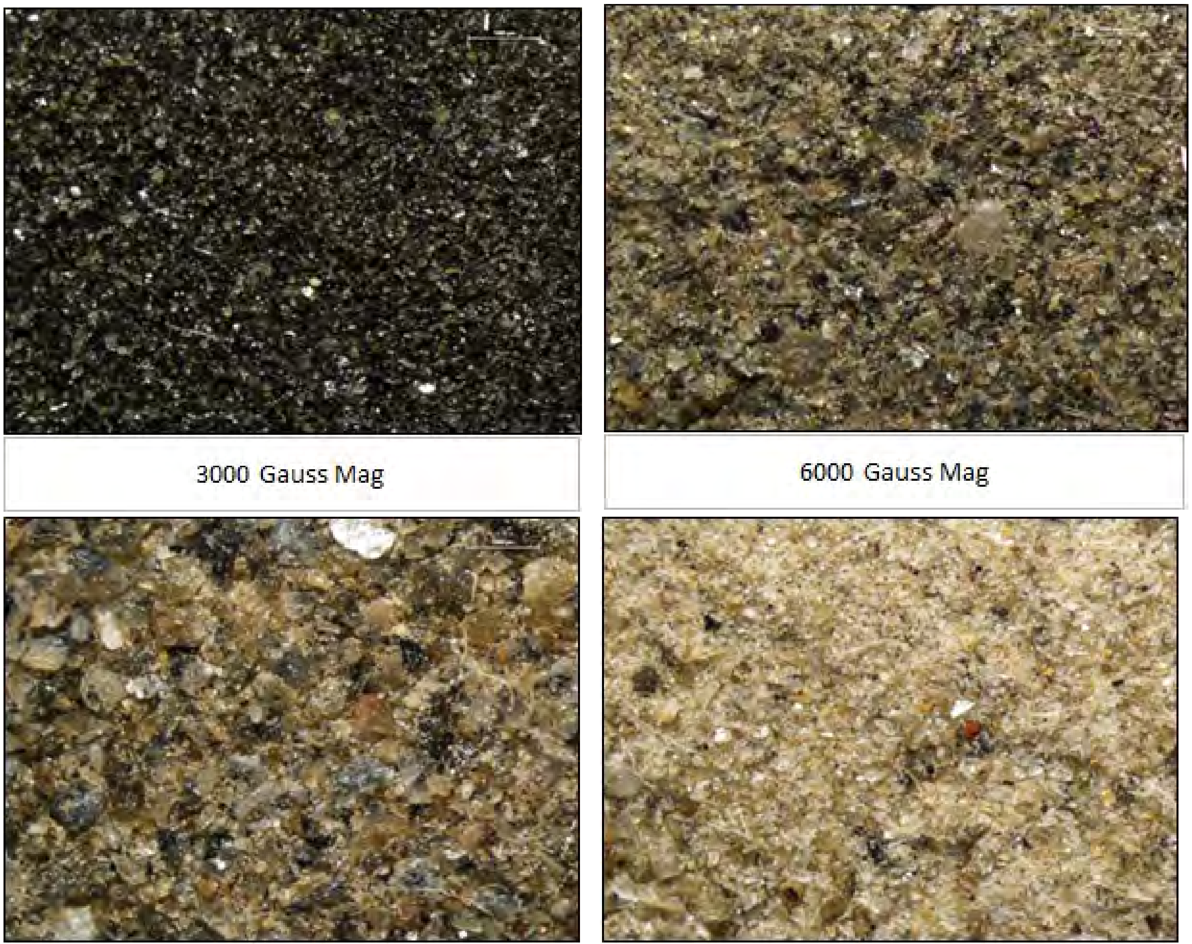


Figure 49 - Progressive Primary WHIMS Fe Grade-Recovery Plots at Three Grind Sizes

Comparative photos of the products from the 500 microns P_{80} test are presented in

Plate 3. In the photos, the color of solids lighten with increasing field strength as more siliceous mineral grains are captured by the WHIMS. To provide an indication of scale, the largest particles present are approximately 1.2 mm in diameter.

Plate 3 - Images of 500 microns P_{80} Primary WHIMS Products



3000 Gauss Mag

6000 Gauss Mag

10000 Gauss Mag

17000 Gauss Mag

The preliminary WHIMS results are considered very encouraging and are consistent with earlier testwork outcomes on surface chip material. The results support the mineralogical findings which indicated a coarse mineral assemblage of paramagnetic allanite within the silicate gangue host material.

Wood selected a primary grind P_{80} size of 500 microns as optimal from the sighter testing as the slight reduction in concentrate grade is more than compensated for by the energy savings at this coarse grind size. For bulk sample processing using a continuous WHIMS unit, this grind size will be adopted, with field strengths of 300 and 6000 Gauss for rougher and scavenger stages.

13.2.5 Flotation Separation

Under the direction of Wood Australia, Auralia Metallurgy is currently undertaking reagent screening testwork on ore feed material in parallel with the Nagrom WHIMS work. Optimized conditions from this work will be applied to testing of cleaner WHIMS magnetics when this work module is completed.

13.2.6 Leach Testing

Nagrom will undertake testing of flotation concentrate in parallel with Watts & Fisher work, evaluating acid bake-water leach and caustic cracking options, which are adopted in a number of rare earth operations around the world.

13.2.7 Preliminary Flowsheet

Under guidance of Wood Australia, metallurgical test work completed to date indicates a simple beneficiation process flowsheet (Figure 50) as the ore responds well to conventional technology, which enables notable opportunities to cut the project’s operating and capital costs. This flowsheet was based on the metallurgical testwork completed to date and from results obtained from ARR’s La Paz project.

ARR plans to use the preliminary flowsheet for conceptual mining, processing, and economic analysis.

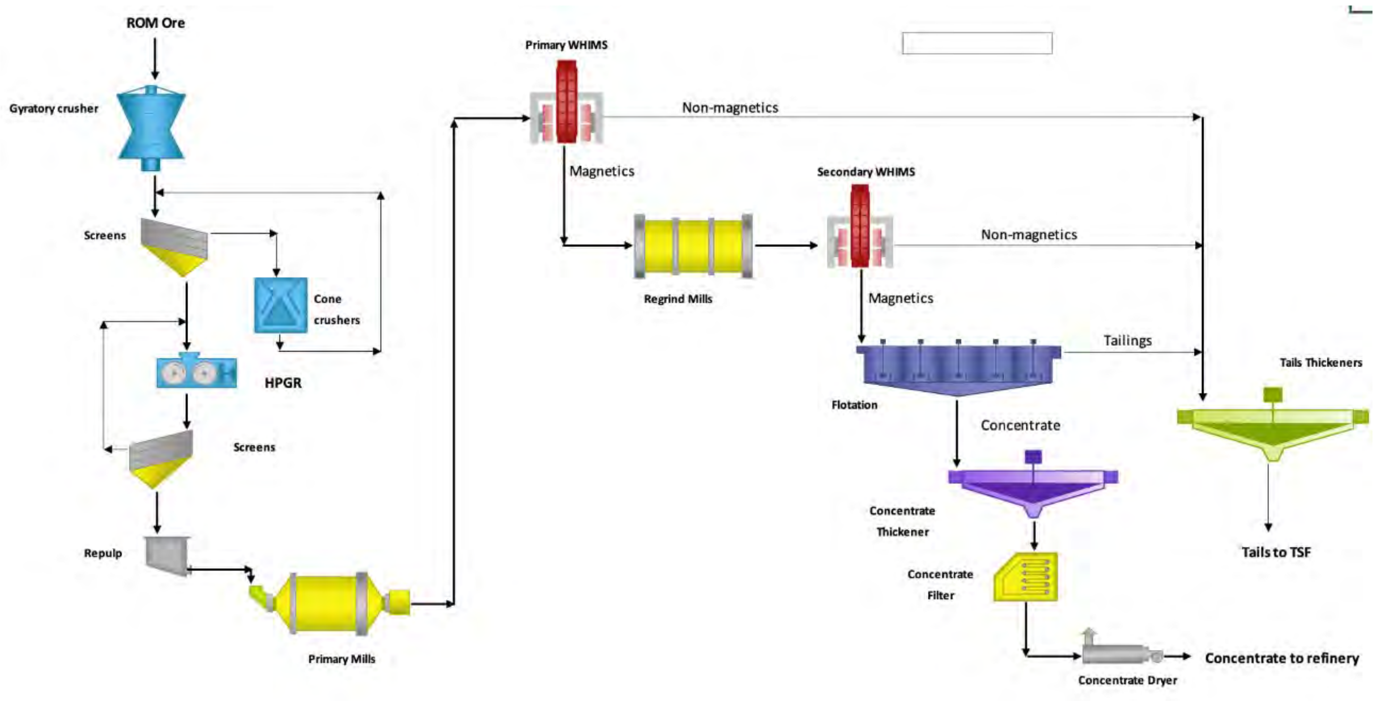


Figure 50 - Preliminary Process Flowsheet

14 Mineral Resource Estimates

14.1 Overview

With the addition of 38 RC holes to the existing nine core holes at Halleck Creek, ARR has 47 drill holes as known data points to determine a maiden JORC resource estimate for the Halleck Creek project.

ARR contracted Odessa Resources Pty Ltd in Perth, WA to build geological and rare earth grade models at Halleck Creek. Mr. Alf Gilman of Odessa Resources is a Chartered Professional (Geology) and Fellow of The Australasian Institute of Mining and Metallurgy or the Australian Institute (AusIMM), number 107303. Mr. Gilman is a Competent Person as defined by the JORC Code 2012 Edition, having sufficient experience that is relevant to the style of mineralization and type of deposit described in this report. Odessa's complete resource report resides in Appendix I.

14.2 Geological Data

14.2.1 Drill Hole Data

ARR extracted drill hole data from DHDB and provided the data to Odessa. Drill hole data included collar locations, down hole surveys, lithological data, alteration data, and assay data for 47 drill holes in the project area. No drill holes were excluded from the data provided to Odessa.

ARR also provided detailed drilling reports and project photographs to Odessa.

14.2.2 Surface Samples

ARR exported locations, lithologic descriptions, and assay data for 513 surface samples across the Halleck Creek project area. While surface samples are not valid data points for resource estimation, there are used to improve modeling geological domains and building rare earth grades models.

The degree in which surface samples were utilized in the geological model and in grade models was at the sole discretion and professional opinion of Odessa.

14.2.3 Assay Data

ARR provided Odessa with comprehensive assay data for Halleck Creek. All drill hole assay data included the drill hole id, domain, from depth, to depth, sample type, and rare earth element oxides. The complete assay results for the core drilling and RC drilling are located in Appendix C – Maiden Drilling Program Assay Data, and Appendix D – RC Drilling Program Assay Data, respectively.

Rare earth elements used for grade modeling include:
TREO, LREO, HREO, MREO, La_2O_3, Ce_2O_3, 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, Y_2O_3, ThO_2, and UO_2

Where:
TREO: Total Rare Earth Oxide
LREO: Light Rare Earth Oxide including La_2O_3, Ce_2O_3, Pr_6O_{11}, Nd_2O_3, and Sm_2O_3
HREO: Heavy Rare Earth Oxide including Eu_2O_3, Gd_2O_3, Tb_4O7, Dy_2O_3, Ho_2O_3, Er_2O_3, Tm_2O_3, Yb_2O_3, and Lu_2O_3
MREO: Magnet Rare Earth Oxide including Pr_6O_{11}, Nd_2O_3, Sm_2O_3, Tb_4O_7, and Dy_2O_3

14.3 Geological Modeling

14.3.1 Topographic Modeling

ARR acquired LiDAR topographic data from the USGS. This data was released to the public in August 2022 as part of the USGS Earth MRI project.

ARR personnel processed LiDAR imagery to prepare high resolution topographic models across Halleck Creek for use in ArcGIS and Leapfrog geological modeling software.

14.3.2 Geological Modeling Parameters and Domains

ARR Geologists interpreted lithological units and modeling domains within the drill hole data. The modeling domains are the primary geological units being modeled by Odessa (Figure 51). Figure 51 also illustrates blocks of mineral control across the Halleck Creek project.

The primary modeling domains consist of:
- QAL - Quaternary alluvium
- DM1 – Higher grade RMP mostly CQM
- DM2 – Lower grade RMP mostly BHS and FM
- DM3 – non-grade ERGB
- DM4 – low grade Sybille

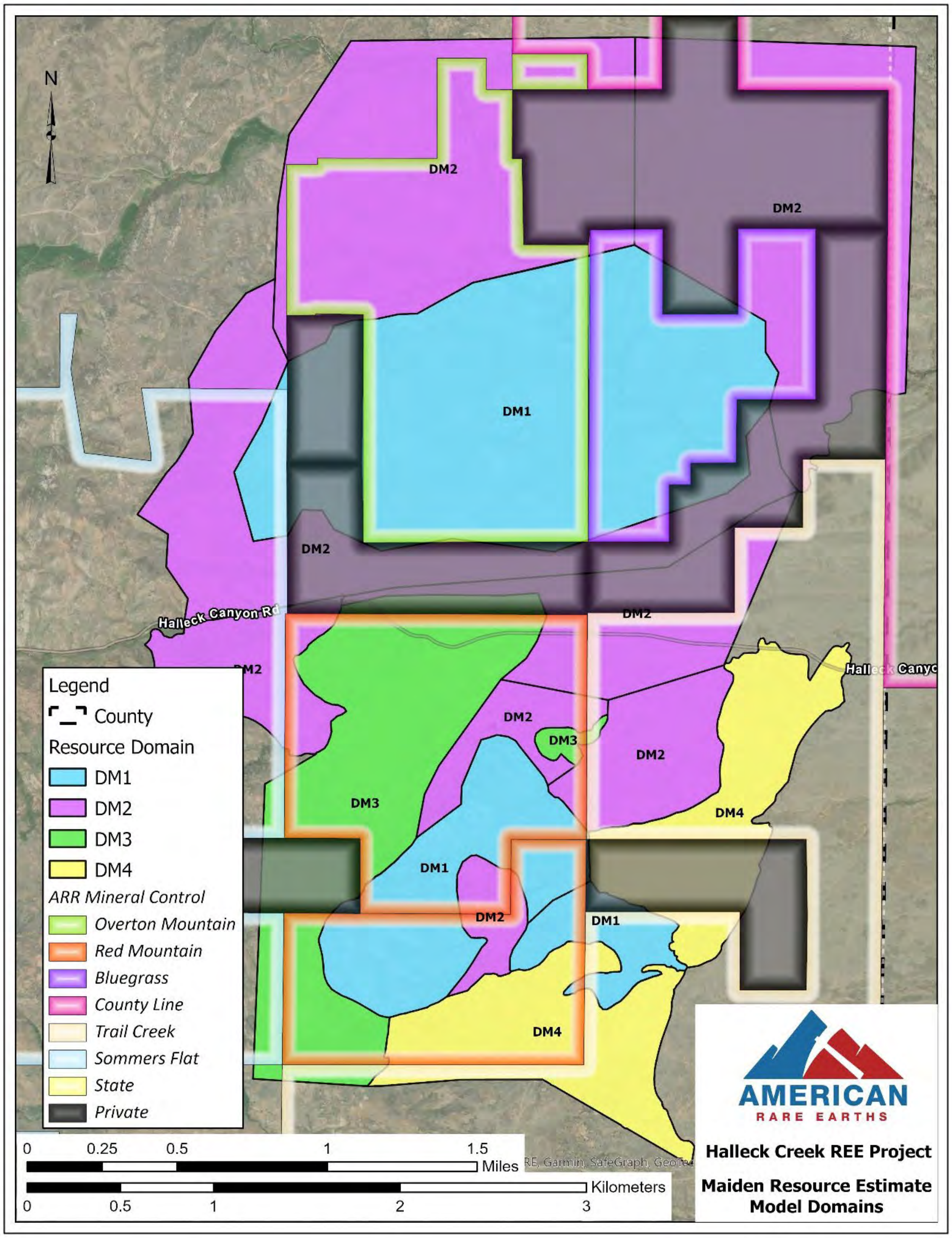


Figure 51 - Geological Modeling Domains

14.3.3 Geological Model

Odessa Resources created a geological resource model using the Leapfrog Edge geological modeling tools, developed by Seequent, a subsidiary of Bentley Systems. Odessa modeled the geologic domains (Figure 52) and established resource boundary limits based on variography of TREO.

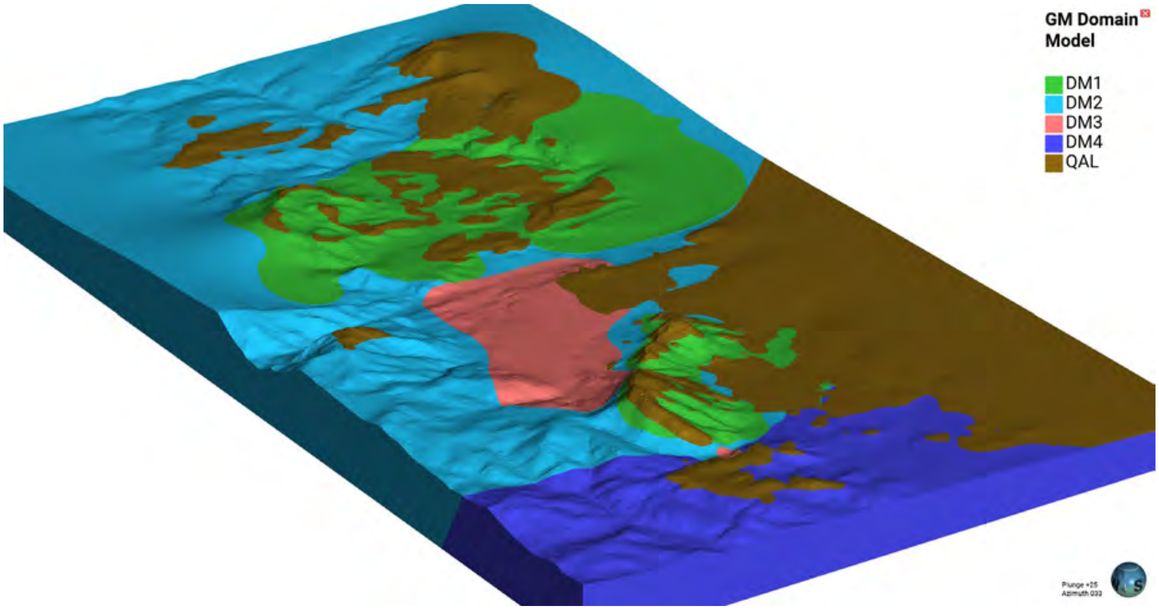


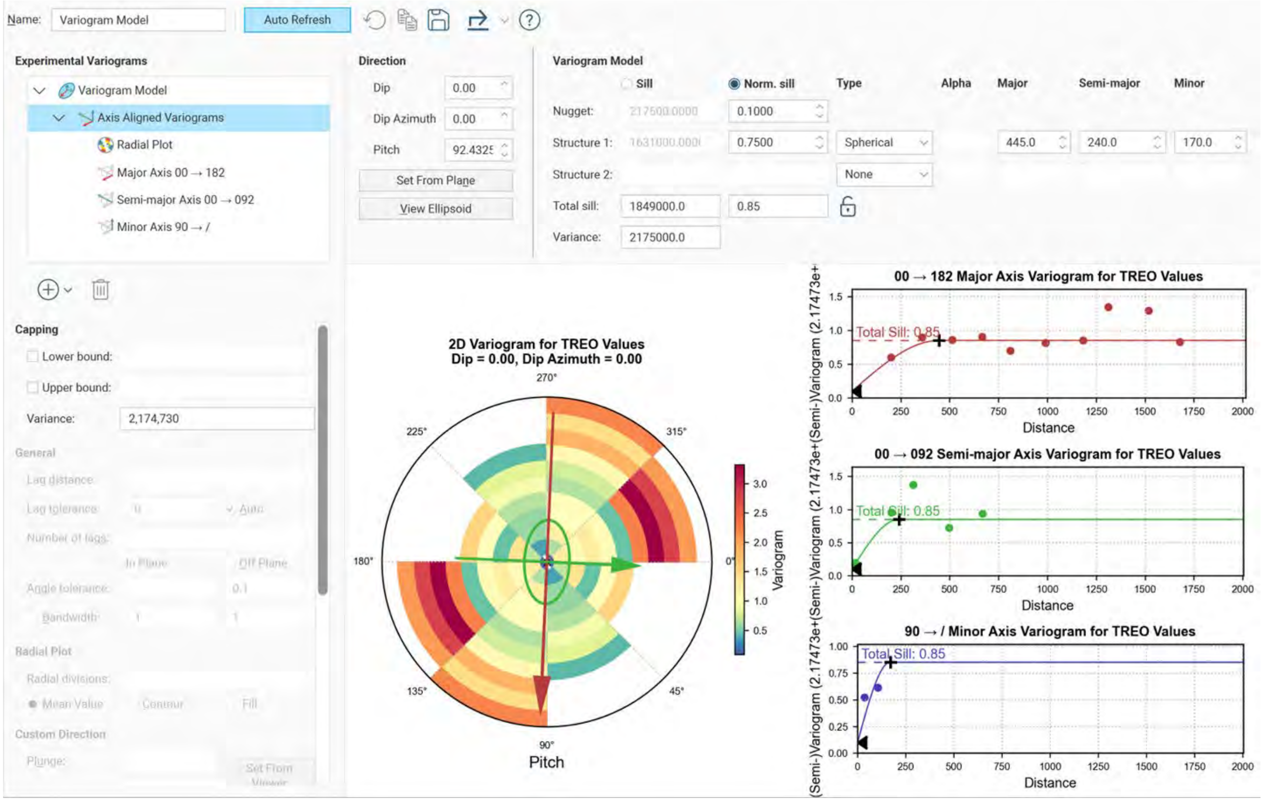
Figure 52 - Modeled Geologic Domains

14.4 Grade Estimation

14.4.1 Variography

Using Leapfrog Edge, Odessa performed detailed variographic analysis for the Halleck Creek assay data to determine resource boundary limits, and to provide input parameters for grade interpolation. Figure 53 shows an example of the variogram analysis for TREO.

The variographic results showed a resource boundary based on 90% of sill range of approximately 325-meters is applicable at Halleck Creek. Figure 54 illustrates the resource boundary for Red Mountain.



Name: Variogram Model

Experimental Variograms

- Variogram Model
  - Axis Aligned Variograms
    - Radial Plot
    - Major Axis 00 → 182
    - Semi-major Axis 00 → 092
    - Minor Axis 90 → /

Direction

Dip: 0.00

Dip Azimuth: 0.00

Pitch: 92.4325

Variogram Model

	○ Sill	● Norm. sill	Type	Alpha	Major	Semi-major	Minor
Nugget:	217500.0000	0.1000					
Structure 1:	1631000.0000	0.7500	Spherical		445.0	240.0	170.0
Structure 2:			None				
Total sill:	1849000.0	0.85					
Variance:	2175000.0						

Capping

☐ Lower bound:

☐ Upper bound:

Variance: 2,174,730

Figure 53 - Variography of TREO

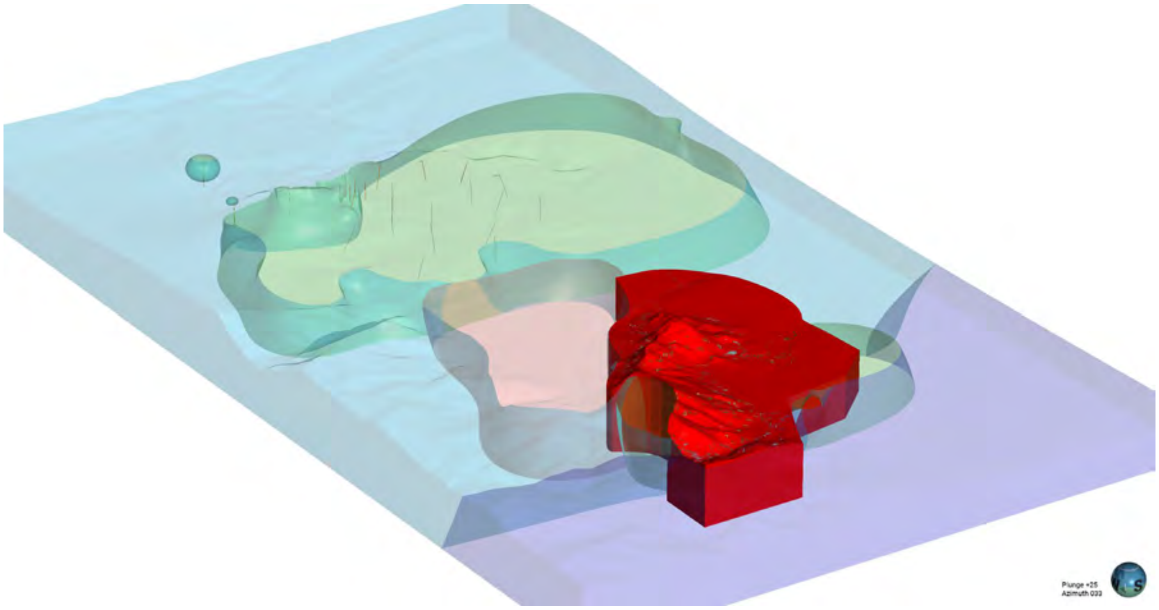


Figure 54 - Red Mountain Resource Block Extent as Determined by Variograms

14.4.2 Composite Statistics

Figure 55 shows a histogram and a log probability chart of the TREO grade data at Halleck Creek. A clear bi-modal distribution of TREO occurs with the data. The higher grade "peak" is correlated with the DM1 modeling domain, which corresponds to the CQM rock type that contains the highest concentration of allanite. The lower grade "peak" is correlated with the DM2 modeling domain which corresponds to the BHS rock type that contains less allanite but remains consistent in drill hole data.

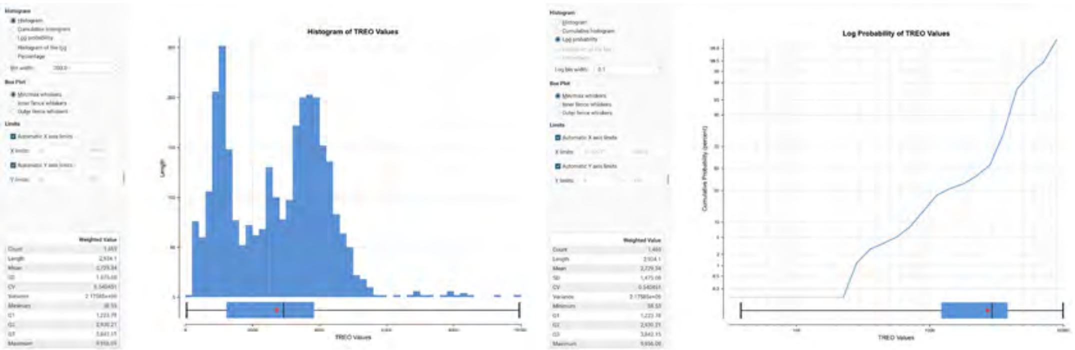


Figure 55 - Resource Statistics

Odessa compiled TREO grade information for the geologic domains, lithological units, and discrete rock types, with the boxplots shown on Figure 56, Figure 57, and Figure 58, respectively.

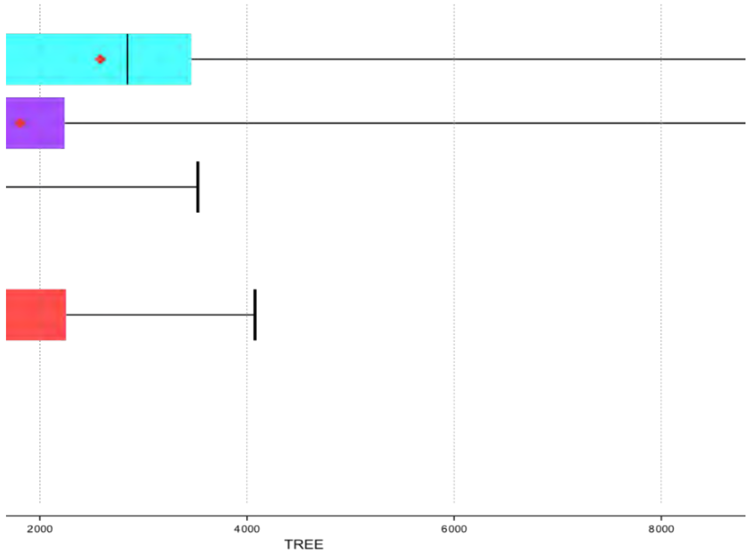


Figure 56 - Boxplot of TREE for Geologic Domains

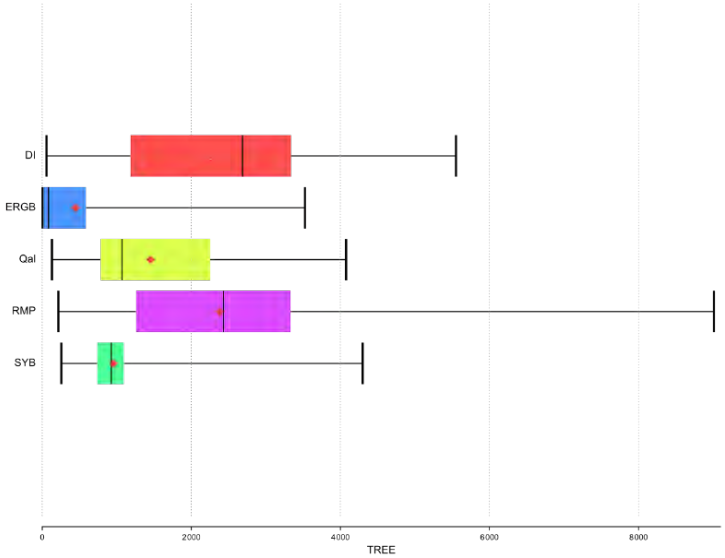


Figure 57 - Boxplot of TREE for Lithological Units

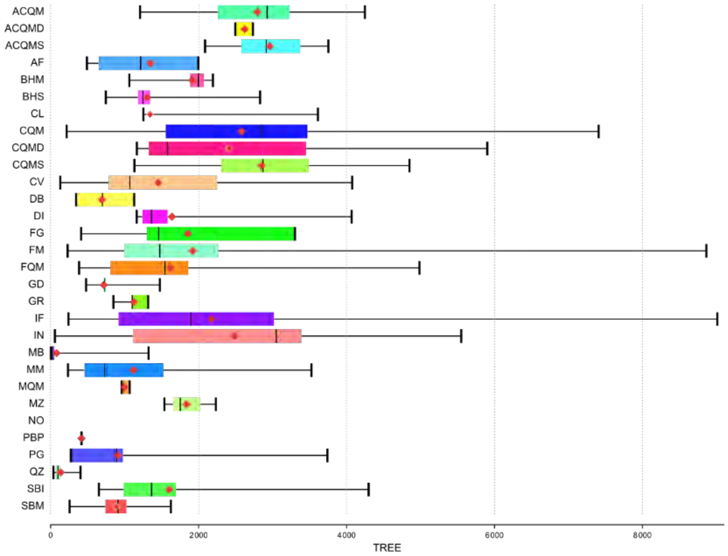


Figure 58 - Boxplot of TREE for Rock Types

14.4.3 Interpolant Parameters

Odessa modeled grade for each of the rare earth parameters listed in Section 14.2.3 above. Leapfrog uses their radial basis function (RBF) to interpolation and extrapolation algorithms for both continuous (numerical) and categorical (geology) data. RBFs approximate a specific type of Kriging called Dual Kriging (Horowitz et al 1996), otherwise known as Global Kriging.

The RBF tools in Leapfrog use the parameters defined during variography as input grade interpolation.

14.4.4 Block Model

Odessa created block models across the Overton Mountain and Red Mountain areas. The Overton Mountain block model contains 232,560 blocks (102 x 114 x 20). Table 28 summarizes the block model extents for the Overton Mountain block model. The Red Mountain block model contains 199,200 blocks (83 x 120 x 20). Table 29 summarizes the block model extents for the Overton Mountain block model.

Table 28 - Overton Mountain Block Model Extents

Block Model Parameter	Value
Parent Block Size	20m
Sub-block count (i, j, k)	4, 4, 4
Minimum block size (i, j, k)	5m ,5m, 5m
Base point (x, y, z)	474000.00, 4634200.00, 2000.00
Boundary size (W x L x H)	2040.00, 2280.00, 400.00
Azimuth	0
Dip	0
Pitch	0

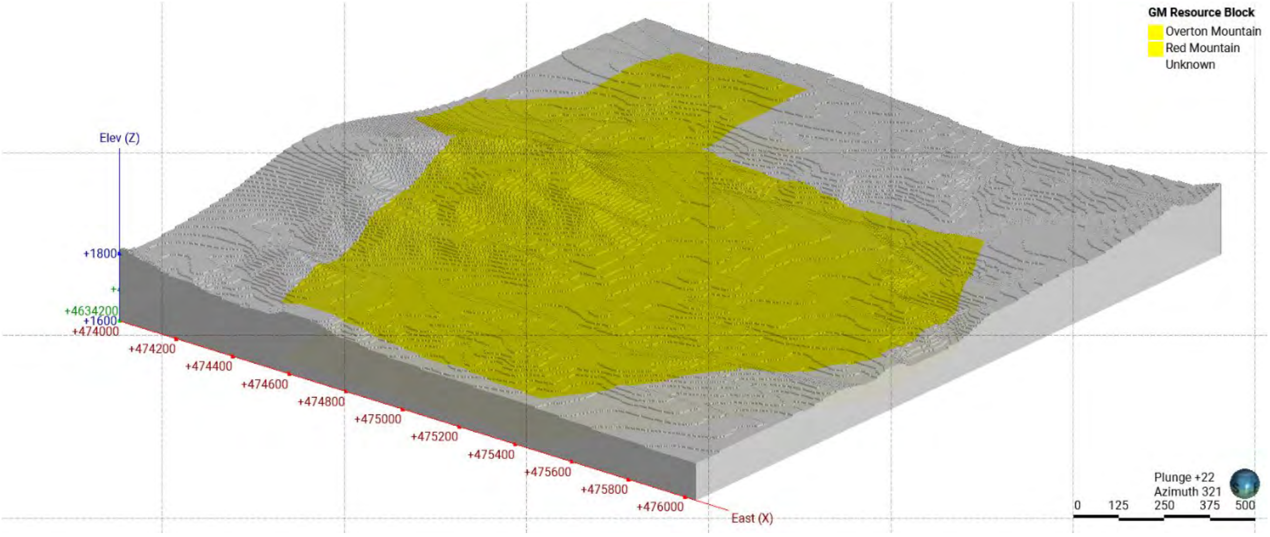


Figure 59 - Overton Mountain Block Model with Resource Block

Table 29 - Red Mountain Block Model Extents

Block Model Parameter	Value
Parent Block Size	20m
Sub-block count (i, j, k)	4, 4, 4
Minimum block size (i, j, k)	5m ,5m, 5m
Base point (x, y, z)	474500.00, 4631600.00, 2000.00
Boundary size (W x L x H)	1660.00, 2240.00, 400.00
Azimuth	0
Dip	0
Pitch	0

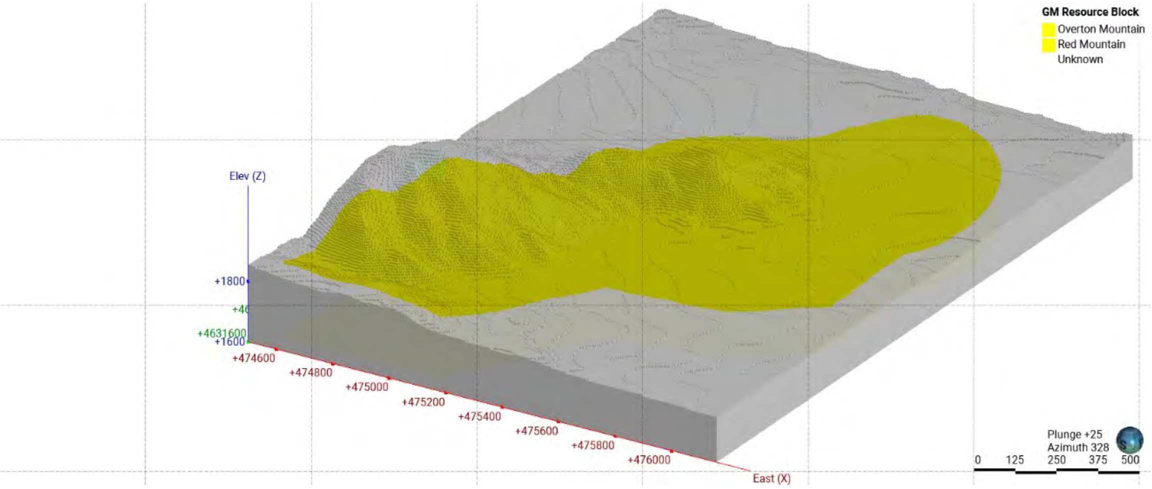


Figure 60 - Red Mountain Block Model with Resource Block

14.4.5 Model Validation

14.5 Resource Estimation

14.5.1 Resource Extent

The Halleck Creek resource estimates were divided into two primary resource blocks: Overton Mountain to the north and Red Mountain to the south.

The Red Mountain resource extent covers minerals with BLM claims and Wyoming state mineral leases. The Red Mountain resource extent also includes a small area of the Trail Creek resource area.

The Overton Mountain resource extent includes a small area from the Bluegrass resource area.

14.5.2 Resource Distance Categories

Odessa developed indicated and inferred resource classes based on the results of variography. Odessa defined the indicated resource class with 100 meters of a drill hole location (Figure 61). Odessa defined the inferred resource class between 100 meters and 300 meters of a drill hole location.

Resource estimates for Halleck Creek were compiled with the resource extents and classification categories shown on Figure 61. The two primary areas are Red Mountain and Overton Mountain. Due to the proximity of drilling the Bluegrass area and the Trail Creek also contain estimated resources.

14.5.3 Resource Density

As mentioned in Section 13.2.2, a specific gravity of 2.70 was applied to volumes to determine tonnages.

14.5.4 Resource Grade Classification

Table 30 summarizes incremental grade and tonnage estimates used for resource reporting.

Table 30 - TREO Grade Classes

Grade Class	TREO Range
Class 01	0 – 500 ppm
Class 02	500 - 1,000 ppm
Class 03	1,000 – 1,500 ppm
Class 04	1,500 – 3,000 ppm
Class 05	>3,000 ppm

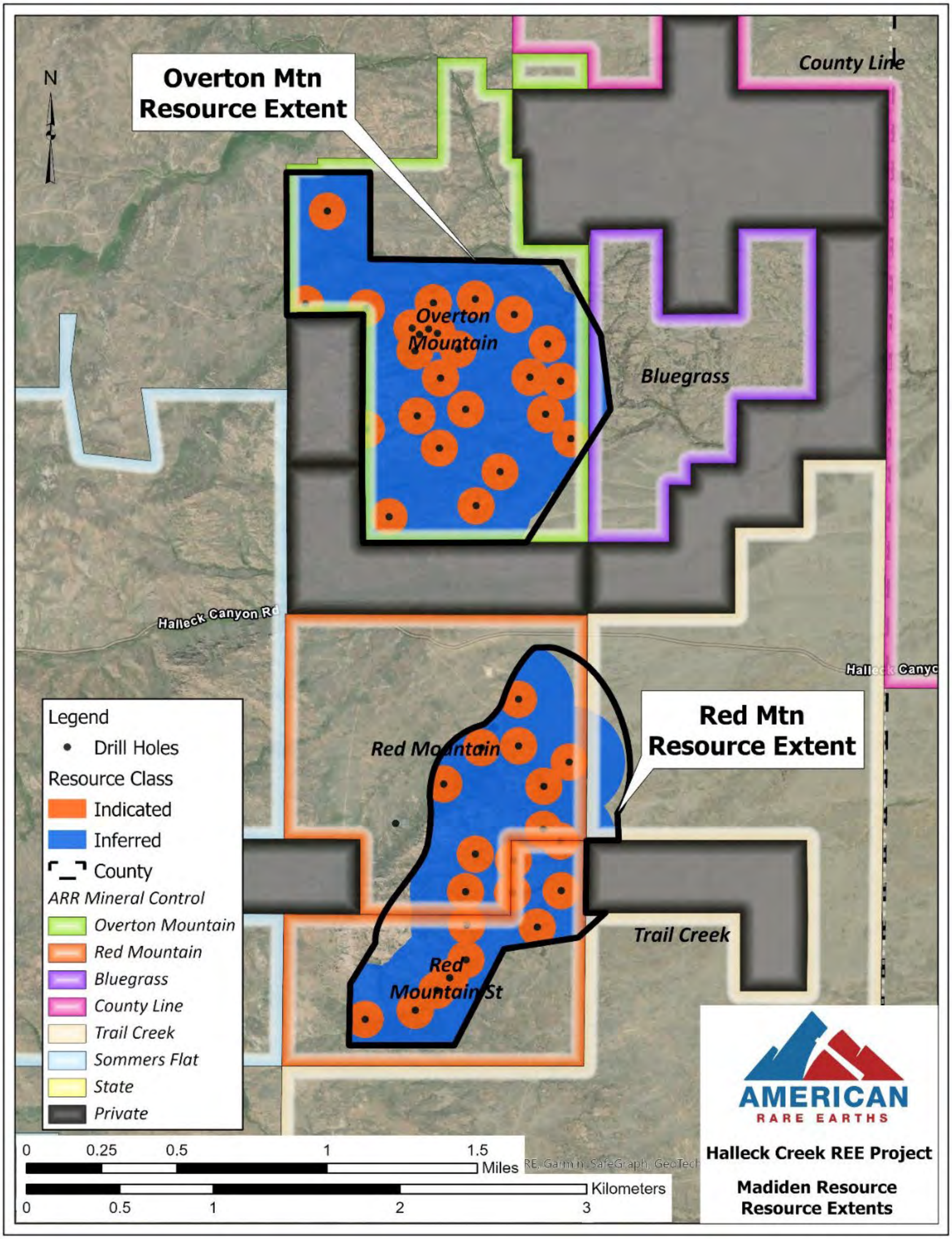


Figure 61 – Resource Extent and Resource Classification Categories

14.5.5 Resource Cut-off Grade

An economic cut-off grade has not been established for the Halleck Creek project. As metallurgical testwork is completed and preliminary mine designs are drafted, ARR will develop an economic cut-off grade for Halleck Creek. For this report, a cut-off grade of 1,500 ppm TREO was used in the tables shown below, unless otherwise stated.

14.5.6 Maiden Resource Estimates

Table 31 summarizes estimated global in-place resources at Halleck Creek by resource area and category using a TREO cut-off of 1,500 ppm. These in-place resource estimates have not been optimized within any open pit designs. The estimated in-place resource at Halleck Creek 1.43 billion tonnes with an average TREO grade of 3,309 ppm (0.33%), and an average NdPr grade of 734 ppm (0.07%). Mineral Resources are not Mineral Reserves and do not have demonstrated economic viability. There is no certainty that all or any part of the Mineral Resource will be converted into a Mineral Reserve.

Approximately 4,731 million Kg TREO material occurs at Halleck Creek (Table 31). Approximately 1,050 million Kg of NdPr material also occurs at Halleck Creek.

Table 31 - Estimated Rare Earth Resources at Halleck Creek

Resource Area	Tonnes (millions)			In-Place Kg TREO (millions)			In-Place Kg NdPr (millions)			Grade (ppm)	
	Indicated	Inferred	Total	Indicated	Inferred	Total	Indicated	Inferred	Total	TREO	NdPr
Overton Mountain	348	434	782	1,202	1,464	2,666	274	326	600	3,408	767
Red Mountain	274	373	647	907	1,158	2,065	202	248	450	3,190	695
Grand Total	**622**	**807**	**1,430**	**2,109**	**2,622**	**4,731**	**477**	**573**	**1,050**	**3,309**	**734**

Total estimated indicated resources comprise approximately 43.5%, with 56.5% as inferred resources across the project area.

Table 32 and Figure 62 show the distribution of tonnage and REO grade for each grade range. If using a cut-off grade of 500 ppm TREO, this would give 1.74 billion tonnes, with an average TREO grade of 2922 ppm (0.29%) and NdPr grade of 668 ppm (0.07%).

Table 32 - Incremental and Cumulative Tonnage by Grade Range

Incremental Tonnes by Grade Range						Cumulative Tonnes by Grade Range					
Area/	In-Place	Grade (ppm)				Area/	Cumulative	Grade (ppm)			
Grade Range	Tonnes (millions)	TREO	NdPr	LREO	HREO	Grade Range	Tonnes (millions)	TREO	NdPr	LREO	HREO
3000+	949	3,857	826	3,171	375	3000+	949	3857	826	3171	375
1500-3000	480	2,227	554	1,973	298	1500-3000	1,430	3309	734	2768	349
1000-1500	244	1,294	370	1,218	256	1000-1500	1,674	3015	681	2542	335
500-1000	68	804	378	1,043	197	500-1000	1,742	2928	669	2483	330
0-500	4	424	300	437	138	0-500	1,747	2922	668	2478	329

LREO: Light Rare Earth Oxides
HREO: Heavy Rare Earth Oxides

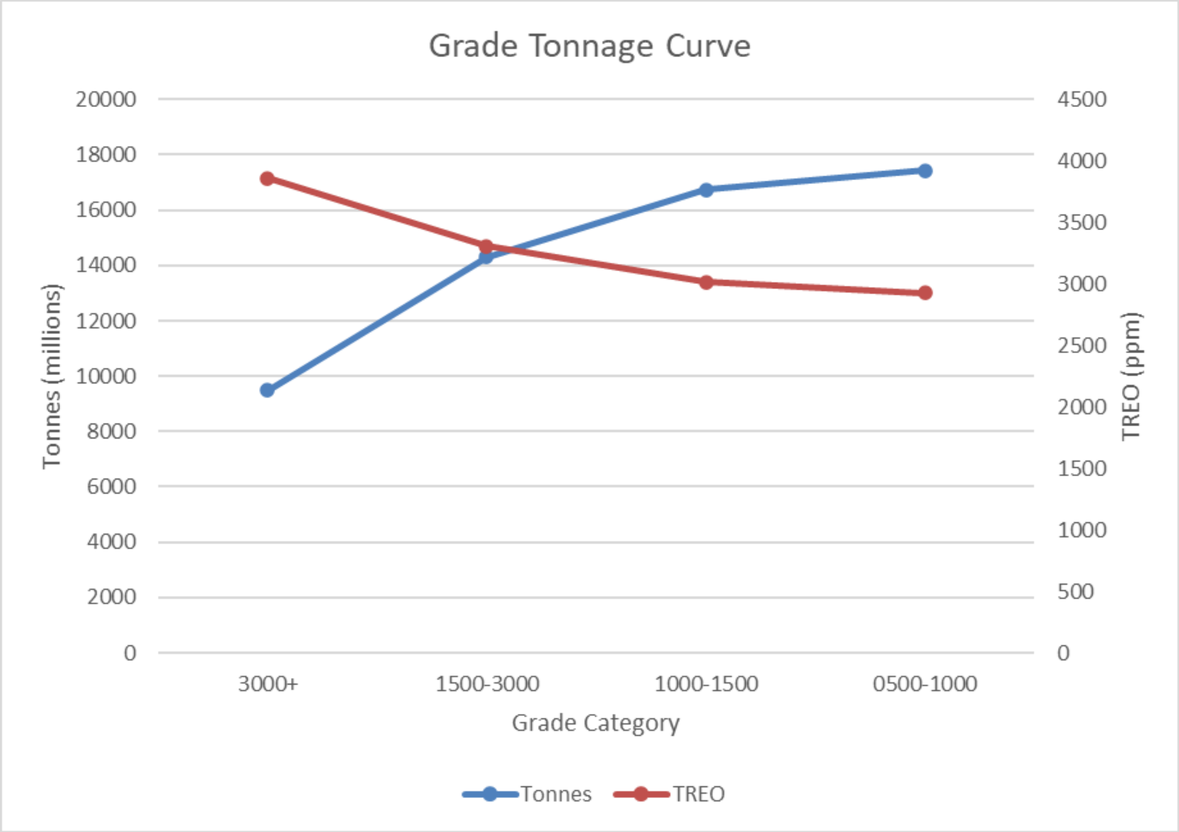


Figure 62 – Grade Tonnage Curve for TREO

Table 33 summarizes the estimated light rare earth oxides at Halleck Creek. The table shows elevated Nd and Pr. Table 34 summarizes the estimated heavy rare earth oxides at Halleck Creek. Most of the heavy rare earth oxides are present, but at lower concentrations.

Table 33 - Estimated Light Rare Earth Oxides at Halleck Creek

Resource Category/	In-Place	Light Rare Earth Oxides (ppm)				
Resource Area	Tonnes (millions)	La2O3	Ce2O3	Nd2O3	Pr6O11	Sm2O3
Indicated	**622**	**682**	**1,439**	**604**	**162**	**95**
Overton Mountain	348	721	1,502	621	167	95
Red Mountain	274	632	1,359	583	156	95
Inferred	**807**	**631**	**1,334**	**560**	**150**	**89**
Overton Mountain	434	691	1,439	591	159	92
Red Mountain	373	562	1,212	524	139	86
Grand Total	**1,430**	**653**	**1,379**	**579**	**155**	**92**

Table 34 - Estimated Heavy Rare Earth Oxides at Halleck Creek

Resource Category/	In-Place	Heavy Rare Earth Oxides (ppm)									
Resource Area	Tonnes (millions)	Y2O3	Eu2O3	Gd2O3	Tb4O7	Dy2O3	Ho2O3	Er2O3	Tm2O3	Yb2O3	Lu2O3
Indicated	**622**	**186**	**12**	**65**	**9**	**42**	**7**	**19**	**2**	**15**	**2**
Overton Mountain	348	187	11	63	8	40	7	19	2	16	2
Red Mountain	274	184	12	68	9	43	8	19	2	15	2
Inferred	**807**	**177**	**11**	**61**	**8**	**39**	**7**	**18**	**2**	**14**	**2**
Overton Mountain	434	184	11	61	8	39	7	18	2	15	2
Red Mountain	373	169	12	62	8	39	7	17	2	14	2
Grand Total	**1,430**	**181**	**12**	**63**	**8**	**40**	**7**	**18**	**2**	**15**	**2**

The estimated content of penalty elements, ThO2 and UO2, remains very low at the Halleck Creek project, 58 ppm and 7 ppm, respectively (Table 35).

Table 35 - Estimated Thorium and Uranium Oxides at Halleck Creek

Resource Category/	Grade (ppm)	
Resource Area	ThO2	UO2
Indicated	**61**	**7**
Overton Mountain	62	7
Red Mountain	60	7
Inferred	**56**	**7**
Overton Mountain	59	7
Red Mountain	53	7
Grand Total	**58**	**7**

15 Mineral Reserve Estimates

15.1 Reserve Estimates

The Halleck Creek Project is in early stages of development. As a result, no reserves have been defined or calculated for the Halleck Creek Project.

16 Mining Methods

16.1 Overview

The Halleck Creek Project is in the early stages of development. As a result, no mining methods or mining plans have been defined or calculated for the Halleck Creek Project. However, rare earth mineralization occurs at surface and continues to depths of at least 150 meters. Therefore, open pit, surface mining methods will be investigated for the Overton Mountain and Red Mountain resource areas.

17 Ore Processing and Preparation Plant

17.1 Overview

The Halleck Creek Project is in the early stages of development. As a result, no ore processing or preparation plants designs have been defined or calculated for the Halleck Creek Project.

18 Project Infrastructure

18.1 Overview

The Halleck Creek Project is in the early stages of development. As a result, no mining related infrastructure designs have been defined or calculated for the Halleck Creek Project.

19 Markets and Contracts

19.1 Overview

The Halleck Creek Project is in the early stages of development. As a result, no mining products or detailed marketing analysis have been defined or calculated for the Halleck Creek Project.

20 Environmental Studies, Permitting, Social and Community Impacts, and Sustainability

20.1 Overview

The Halleck Creek Project is in the early stages of development. As a result, no detailed environmental studies have been defined or calculated for the Halleck Creek Project.

20.2 Exploration Permits

ARR acquired exploration permits, in the form of drilling notices, from the Wyoming Department of Environmental Quality (WDEQ) for surface land owned privately and by the state of Wyoming. ARR also acquired exploration permits from the US Bureau of Land Management (BLM) for the surface land owned by the United States.

21 Capital and Operating Costs

21.1 Overview

The Halleck Creek Project is in the early stages of development. As a result, no cost modeling studies have been defined or calculated for the Halleck Creek Project.

22 Economic Analysis

22.1 Overview

The Halleck Creek Project is in the early stages of development. As a result, no economic analysis studies have been defined or calculated for the Halleck Creek Project.

23 Adjacent Properties

At this time, there are no adjacent mining or mineral exploration projects within 10km of the Halleck Creek project.

24 Other Relevant Data and Information

At this time, all relevant information and data has been thoroughly documented in this report.

25 Interpretation, Risk Analysis and Conclusions

25.1 Interpretation

The Red Mountain Pluton of the Halleck Creek Rare Earths Project is a distinctly layered monzonitic to syenitic body which exhibits significant and widespread REE enrichment. Enrichment is dependent on allanite abundance, a sorosilicate of the epidote group, which is most abundant within the clinopyroxene quartz monzonite. However, lower levels of REE enrichment can be found in other RMP units which notably include the fayalite monzonite and the biotite hornblende quartz syenite.

25.2 Uncertainties

The extent of mineralization at both the Red Mountain and Overton Mountain projects areas is still being assessed. Furthermore, the deposit remains open at depth.

25.3 Risk Analysis

ARR is developing a comprehensive risk register as part of conceptual studies being performed for the Halleck Creek project. The risk register outlines potential risks for each component of the project, the level of severity to adversely affect the project, and the primary strategy to mitigate each risk.

25.4 General Conclusions

The Halleck Creek Rare Earths Project is unique in that it contains large areas of near surface, moderately high-grade values of critical, magnet component and heavy rare earths. ARR has claims and mineral leases covering the mineralized areas at Halleck Creek. Exploration drilling demonstrates that rare earth mineralization, in CQM and BHS rocks, is widespread, consistent at depth and that the deposit remains open at depth and toward additional prospect areas within the Halleck Creek district.

Mineralogical characterization confirmed that allanite is the primary rare earth bearing mineral at Halleck Creek. The mineralogy showed that allanite can be liberated from the coarse-grained material.

Preliminary metallurgical testwork determined the specific gravity of rock material at 2.7. Grinding and comminution results using SMC test work, Bond abrasion index testing, and Bond mill work testing indicate that Halleck Creek ore should be suitable for processing in a SAG-Ball mill configuration without the need for pebble crushing and could also be processed in a single stage SAG mill. Batch WHIMS testing showed that core material at a 500 microns P_{80} grind recovered more than 90% of Allanite from non-magnetic material. Continuous WHIMS testing and leach testing is ongoing.

Geologic domains were interpreted into 47 drill holes across Halleck Creek. Geological domain, lithology and grade models were created across Halleck Creek. Geostatistical analysis determined resource boundaries, and indicated and inferred resource classes to 100-meters and 300-meters from drill holes, respectively.

Using the geological models, a maiden in-place resource of 1.43 billion tonnes with an average TREO grade of 3,309 ppm was compiled for Halleck Creek. The 1.43 billion tonne resource estimate at Halleck Creek provides ARR with a starting point to develop technical, social and economic components needed to evaluate the full value of Halleck Creek.

26 Recommendations and Future Work

26.1 Conceptual Studies and Scoping Studies (Preliminary Economic Assessment)

With the Halleck Creek maiden resource estimate in hand, ARR is commencing studies with respect to community impact, mine design and mine planning, plant design and ore processing, mine dumps and tailings, commodity marketing, associated costs and financial modeling.

Initial conceptual studies will lead into a preliminary economic assessment that ARR hopes to have completed in late Q4 2024.

26.2 Resource Exploration and Development

26.2.1 Resource Development

Exploration drilling to date at Halleck Creek focused on defining a maiden resource at Halleck Creek. The next phases of exploration drilling at Halleck Creek will focus on increasing resource classification needed for pre-feasibility level resource estimates, on acquiring geotechnical data for pit stability and ground control plans, on establishing baseline groundwater quality and long-term groundwater monitoring.

26.2.2 Geologic Mapping and XRF Analysis

During 2022, ARR acquired federal lode claims with the Halleck Creek district. ARR geologist will be performing extensive geological mapping across these newly acquired claim areas.

ARR will also be performing extensive and systematic XRF analysis over these same areas. ARR currently proposes to collect XRF samples across a 200m x 200m grid. Areas showing more complexity or REE anomalies might be reanalyzed using a more refined grid spacing (e.g. 100m x 100m or 50m x 50m).

27 References

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28 Certificates of Qualified Persons

CERTIFICATION OF QUALIFICATIONS
Dwight M. Kinnes, CPG (Author)
Chief Technical Officer
American Rare Earths, Ltd.

I, DWIGHT M. KINNES, Qualified Professional Member (QP) #4063295RM of the Society of Mining Engineers (SME), HEREBY CERTIFY THAT:

1. I am currently employed as chief technical officer with American Rare Earths, Ltd, with an office in Palisade, CO 81526.
2. I am a graduate of Colorado State University, with a B.S. degree in Geology (1986), I have been practicing my profession since 1986.
3. I am a registered member of the Society of Mining Engineers (SME), number 4063295.
4. From 1986 to present I have been actively employed in various capacities in the mining industry in numerous locations in North America, South America, Asia, Australia, and Europe.
5. I am the Co-Author of the Technical Report titled “Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project” dated March 28, 2023, and accept professional responsibility for all sections of this report.
6. As of the effective date of the Technical Report, to the best of my knowledge, information and belief, The Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.
7. I am employed by American Rare Earths, Ltd.
8. I consent to the filing of this Technical Report with any stock exchange and other regulatory authority and publication by them, including publication of this Technical Report in the public company files on their websites accessible by the public.

DATED in Palisade, Colorado, USA this 28th day of March 2023.

Dwight M. Kinnes

Dwight M. Kinnes, CPG (4063295RM – SME)

CERTIFICATION OF QUALIFICATIONS

Sara V. Stotter, MS (Author)
Geologist
American Rare Earths Ltd.

I, SARA V. STOTTER, HEREBY CERTIFY THAT:

1. I am currently employed as a geologist with American Rare Earths Ltd., with an office in Laramie, WY 82070.

2. I am a graduate of Bucknell University, with a B.S. degree in Geology (2016), and a graduate of the University of Montana, with a M.S. degree in Geology (2019), I have been practicing my profession since 2019.

3. From 2019 to present, I have been actively employed in capacities related to the mining industry in various locations throughout the United States.

4. I am the Co-Author of the Technical Report titled "Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project" dated March 28, 2023 and accept professional responsibility for all sections of this report.

5. As of the effective date of the Technical Report, to the best of my knowledge, information and belief, The Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

6. I am employed by American Rare Earths Ltd.

7. I consent to the filing of this Technical Report with any stock exchange and other regulatory authority and publication by them, including publication of this Technical Report in the public company files on their websites accessible by the public.

DATED in Laramie, Wyoming, USA this 28th day of March 2023.

Sara V. Stotter

Sara V. Stotter, MS

CERTIFICATION OF QUALIFICATIONS

Kayla R. Young, MS (Author)
Geologist
American Rare Earths Ltd.

I, KAYLA R. YOUNG, HEREBY CERTIFY THAT:

1. I am currently employed as a geologist with American Rare Earths Ltd., with an office in Laramie, WY 82070.

2. I am a graduate of Trinity College Dublin, with a B.A. degree in Geology (2019), and a graduate of the University of Wyoming, with a M.S. degree in Geology (2022). I have been practicing my profession since 2022.

3. From 2022 to present, I have been actively employed in capacities related to the mining industry in various locations throughout the United States.

4. I am the Co-Author of the Technical Report titled “Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project” dated March 28 2023 and accept professional responsibility for all sections of this report.

5. As of the effective date of the Technical Report, to the best of my knowledge, information and belief, The Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

6. I am employed by American Rare Earths Ltd.

7. I consent to the filing of this Technical Report with any stock exchange and other regulatory authority and publication by them, including publication of this Technical Report in the public company files on their websites accessible by the public.

DATED in Laramie, Wyoming, USA this 28th day of March 2023.

Kayla R. Young, MS

CERTIFICATION OF QUALIFICATIONS
ALFRED J. GILLMAN
CONSULTING GEOLOGIST
ODESSA RESOURCES PTY LTD

I, Alfred J. Gillman, hereby certify that:

1. I am currently the Principal of the independent resource consulting firm Odessa Resources Pty Ltd (ABN 16 133 543 727) and have been engaged by American Rare Earths to undertake resource estimation work for the Halleck Creek Rare Earths Project.

2. I am a graduate of the University of Western Australia (1980) and hold a Bachelor of Science Degree with Honours in Geology and I have been practicing in my profession since 1980.

3. I am a Chartered Professional (Geology) and Fellow of The Australasian Institute of Mining and Metallurgy or the Australian Institute (AusIMM), number 107303.

4. From 1980 to present I have been actively employed in various capacities in the mining industry in numerous locations around the world.

5. I have read and understood the requirements of the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2012 Edition).

6. I am a Competent Person as defined by the JORC Code 2012 Edition, having sufficient experience that is relevant to the style of mineralisation and type of deposit described in the Report, and to the activity for which I am accepting responsibility.

7. I verify that Section 14 of the Technical Report is based on and fairly and accurately reflects in the form and context in which it appears, the information in my supporting documentation relating to Mineral Resources.

8. As of the effective date of the report, to the best of my knowledge, information and belief, that Section 14 of the Technical Report contains all scientific and technical information that is required to be disclosed to make the report not misleading.

9. I consent to the filing of this report with any stock exchange and other regulatory authority and publication by them, including publication of the report in the public company files on their websites accessible by the public.

Dated in Perth, Western Australia this 28th day of March 2023.

Alfred Gillman
Alfred Gillman (Mar 29, 2023 08:13 GMT+8)
Alfred J. Gillman
BSc(Hons), FAusIMM (CP Geol) 107303

CERTIFICATION OF QUALIFICATIONS
JAMES R. GUILINGER
CONSULTING GEOLOGIST
WORLD INDUSTRIAL MINERALS LLC

I, JAMES R. GUILINGER, Qualified Professional Member (QP) #01260280RM of the Society of Mining Engineers (SME), HEREBY CERTIFY THAT:

1. I am currently employed as a consulting geologist with World Industrial Minerals LLC, 2877 Hatteras Way, Naples Florida USA 34119.
2. I am a graduate of the University of Colorado, with a B.A. degree in Geology (1973), I have been practicing my profession since 1974.
3. I am a member of the Society of Mining Engineers (SME) RM, number 01260280 RM.
4. From 1974 to present I have been actively employed in various capacities in the mining industry in numerous locations in North America, Asia, Europe, and the Middle East.
5. I have read and reviewed the Technical Report titled "Technical Report of Exploration and Maiden Resource Estimates of the Halleck Creek Rare Earths Project" dated March 28 2023 and accept professional responsibility for all sections of this report except as stipulated in Item 3 "Reliance on Other Experts" in regards to environmental issues, permitting, metallurgy, resource estimation and land status.
6. I have had extensive prior involvement working in rare earths and on rare earths properties similar to Halleck Creek since the mid 1980's in various capacities as an employee of mining companies and as a consulting geologist.
7. As of the effective date of the Technical Report, to the best of my knowledge, information and belief, The Technical Report Contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.
8. I am independent of ARR.
9. I consent to the filing of this Technical Report with any stock exchange and other regulatory authority and publication by them, including publication of this Technical Report in the public company files on their websites accessible by the public.

DATED in Naples Florida, USA this 28th day of March 2023.

James Guilinger

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Appendix A – JORC Table 1

JORC Code, 2012 Edition – Table 1 Halleck Creek Exploration Area		
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 (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.*	ARR drilled 38 reverse circulation (RC) holes across the Halleck Creek Resource Claim area between October and December 2022. All holes were approximately 150 meters (492.13 feet) deep, with the exception of HC22-RM015 which went to a depth of 175.5 meters (576 feet). Chip samples were collected at 1.5-meter continuous intervals via rotary splitter. In March and April 2022, ARR drilled nine HQ-sized core holes across the Halleck Creek Resource claim area. All holes were approximately 350 ft with the exception of one hole which was terminated at 194 ft. Total drilled length of 3,008 ft (917 m). Rock core was divided into sample lengths of 5 ft (1.52 m) long and at key lithological breaks. An additional 71 surface rock samples were collected on claim areas east of the Overton Mountain study area. A total of 513 surface rock samples exist in the Halleck Creek database. Surface rock samples collected by ARR are logged, photographed and located using handheld GPS units. As part of reverse circulation (RC) exploration drilling at Halleck Creek. ARR collected XRF readings on RC chip samples. Elements included in XRF measurements include: Lanthanum, Cerium, Neodymium, and Praseodymium. ARR collected three XRF readings on each sample, then averaged the readings. Readings are performed at 25-meter intervals down each drill hole. These values

		are considered to be qualitative in natures and provide only rough indications of grade.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	Core recoveries and RQDs were calculated by ARR field geologists. For the April 2022 core drilling program
	Aspects of the determination of mineralisation that are Material to the Public Report.	The Red Mountain Pluton of the Halleck Creek Rare Earths Project is a distinctly layered monzonitic to syenitic body which exhibits significant and widespread REE enrichment. Enrichment is dependent on allanite abundance, a sorosilicate of the epidote group, which is most abundant within the clinopyroxene quartz monzonite. However, lower levels of REE enrichment can be found in other RMP units which notably include the fayalite monzonite and the biotite hornblende quartz syenite.
	In cases where 'industry standard' work has been done, this would be relatively simple (e.g. '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 (e.g. submarine nodules) may warrant disclosure of detailed information.	Reverse circulation rock chip samples were collected at 1.5-meter continuous intervals via rotary splitter. For each interval chip samples were placed in labelled sample bags weighing between 1-2kg. A 0.5-1kg sample was collected for reserve analysis and logging. Chip samples were also placed into chip trays with 20 slots for logging and XRF analysis. Rock core samples 5 ft (1.52 m) long are being fillet cut. The fillet cuts are being pulverised and sampled for 60 elements including rare earth elements using ICP-MS and industry standards. A select number of samples are additionally being assayed for whole rock geochemistry. American Assay Labs in Sparks, NV is performed the analyses.

		RC chip samples were sent to ALS labs in Twin Falls, ID for preparation and forwarded on to ALS labs in Vancouver, BC for ICP-MS analysis. ALS analysis: ME-MS81 The rock samples pulverised and analysed for 48 elements, including rare earth elements using ICP-MS. American Assay Labs in Sparks, NV is performed the analyses.
Drilling techniques	*Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or another type, whether the core is oriented and if so, by what method, etc.).*	A Schraam T-450 reverse circulation drill rig was used to drill all 38 RC drill holes. A continuous rotary sample splitter was used to collect the RC samples at 1.5m intervals. Core: HQ, diamond tip, 5-ft runs, unoriented. Total drilled depth of 3,008 ft (917 m).
Drill sample recovery	*Method of recording and assessing core and chip sample recoveries and results assessed.*	A continuous rotary sample splitter was used to collect the RC samples at 1.5m intervals. All drill core was visually logged, measured, and photographed by ARR geologists. Drill core was collected in lengths (runs) of 5 ft (1.52 m). Recoveries were calculated for each core run. Each rock sample was described, photographed with its location determined using handheld GPS.
	Measures are taken to maximise sample recovery and ensure the representative nature of the samples.	Reverse circulation rock chip samples were collected at 1.5-meter continuous intervals via rotary splitter. For each interval chip samples were placed in labelled sample bags weighing between 1-2kg. A 0.5-1kg sample was collected for reserve analysis and logging. Chip samples were also placed into chip trays with 20 slots for logging and XRF analysis. All core and associated samples were immediately placed in core boxes.

	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.	Recoveries were very high in competent rock. No loss or gain of grade or grade bias related to recovery
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.*	All RC samples were visually logged by ARR geologists from chip trays using 10x binocular microscopes. Samples at 25m intervals were photos and analysed using an Olympus Vanta handheld XRF analyser in triplicate. Lanthanum, Cerium, Neodymium, and Praseodymium were analysed via XRF. All drill core was visually logged, measured, and photographed by ARR geologists. Drill core was collected in lengths (runs) of 5 feet (1.52m). ARR geologists calculated recoveries for each core run. ARR geologists logged lithology, various types of alteration and mineralisation, fractures, fracture conditions, and RQD.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.	RC samples and logging is quantitative in nature. Chip samples are stored in secure sample trays. Chip samples were photographed and 25m intervals. Core logging is quantitative in nature. All core was photographed.
	The total length and percentage of the relevant intersections logged.	All RC samples were visually logged by ARR geologists for each 1.5-meter continuous sample. All drill core was visually logged, measured, and photographed by ARR geologists. Drill core was collected in lengths (runs) of 5 feet (1.52m). ARR geologists calculated recoveries for each core run. ARR geologists logged lithology, various types of alteration and mineralisation, fractures, fracture conditions, and RQD.
Sub-sampling techniques and sample preparation	*If core, whether cut or sawn and whether quarter, half or all core taken.*	RC chip samples were not cut.

		Drill core was fillet cut by American Assay Labs, with approximately 1/3 of the core used for assay. The remaining core material will be kept in reserve by ARR in a secure location.
	If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.	Samples varied between wet and dry. The course crystalline nature of the deposit minimizes adverse effects of wet samples. Samples were rotary split during drilling and sample collection. ALS labs dried wet samples using their DRY-21 drying process.
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	RC samples were taken from pulverize splits of up to 250 g to better than 85 % passing minus 75 microns. All core samples were dry. Sample preparation: 1kg samples split to 250g for pulverising to -75 microns. Sample analysis: 0.5g charge assayed by ICP-MS technique. Both sampling methods are considered appropriate for the type of material collected and are considered industry standard.
	Quality control procedures adopted for all sub-sampling stages to maximise the representivity of samples.	Section 12.1 above outlines a detailed description of Q/Qc protocols used by ARR. ARR submitted CRM sample blanks, CRM standard REE samples from CND Labs and duplicate samples for analysis. Blank samples were added one for every 10 core samples, REE samples were added one for every 25 core samples, and Duplicate samples were added one per every 25 core samples.
	Measures are taken to ensure that the sampling is representative of the in situ material collected, including, for instance, results for field duplicate/second-half sampling.	RC samples were collected using a continuous feed rotary split sampler. Fillet cuts along the entire length of all core are representative of the in-situ material.

	Whether sample sizes are appropriate to the grain size of the material being sampled.	Allanite is generally well distributed across the core and the sample sizes are representative of the fine grain size of the Allanite.
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.*	ALS uses a 5-acid digestion and 32 elements by lithium borate fusion and ICP-MS (ME-MS81). For quantitative results of all elements, including those encapsulated in resistive minerals. These assays include all rare earth elements. AAL Labs uses 5-acid digestion and 48 element analysis including REE reported in ppm using method REE-5AO48 and whole-rock geochemical XRF analysis using method X-LIB15.
	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.	Samples at 25m intervals were photos and analysed using an Olympus Vanta handheld XRF analyser in triplicate. Lanthanum, Cerium, Neodymium, and Praseodymium were analysed. Simple average values of three XRF readings were calculated. No downhole geophysical tools used in the drilling program.
	Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	Section 12 above outlines the Qa/Qc procedures used by ARR. For the RC drilling, ARR submitted CRM sample blanks, CRM standard REE samples from CND Labs and duplicate samples for analysis. CRM and Blank samples were inserted alternately at 20 sample intervals. Core the core drilling, ARR submitted CRM sample blanks, CRM standard REE samples from CND Labs and duplicate samples for analysis. Blank samples were added one for every 10 core samples, REE samples were added one for every 25 core samples, and Duplicate samples were added one per every 25 core samples. Internal laboratory blanks and standards will additionally be inserted during analysis.
	The verification of significant intersections by either independent or alternative company personnel.	RC chip samples have not yet been verified by independent personnel.

Verification of sampling and assaying		Consulting company personnel have observed the assayed core samples. Company personnel sampled the entire length of each hole.
	The use of twinned holes.	No twinned holes were used.
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	Data entry was performed by ARR personnel and checked by ARR geologists. All field logs were scanned and uploaded to company file servers. All photographs of the core were also uploaded to the file server daily. Drilling data will be imported into the DHDB drill hole database. All scanned documents are cross-referenced and directly available from the database. Assay data from the RC samples was imported into the database directly from electronic spreadsheets sent to ARR from ALS. Core assay data was received electronically from AAL labs. These raw data as elements reported ppm were imported into the database with no adjustments.
	Discuss any adjustment to assay data.	Assay data is stored in the database in elemental form. Reporting of oxide values are calculated in the database using the molar mass of the element and the oxide.
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.*	RC drill holes have been located using handheld GPS units. Final surveys of hole locations will be performed by professional surveyors. Drill hole location is based on GPS coordinates +/- 10 ft (3 m) accuracy.
	Specification of the grid system used.	The grid system used to compile data was NAD83 Zone 13N.
	Quality and adequacy of topographic control.	Topography control is +/- 10 ft (3 m).
Data spacing and distribution	*Data spacing for reporting of Exploration Results.*	Both randomly spaced and localised clustering of drillholes.

	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	The drill hole data is at a sufficient spacing to determine a mineral resource or reserve.
	Whether sample compositing has been applied.	Each sample is the result of assaying a 5 ft interval of core. Composite assay values have not been calculated or applied.
Orientation of data in relation to geological structure	*Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.*	Mineralization at Halleck Creek is a function of fractional crystallization of allanite in syenitic rocks of the Red Mountain Pluton. Mineralization is not structurally controlled and exploration drilling to date does not reveal any preferential mineralization related to geologic structures. Therefore, orientation of drilling does not bias sampling.
	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.	Orientation of drilling does not bias sampling.
Sample security	*The measures are taken to ensure sample security.*	All RC chip samples were collected from the drill rigs and stored in a secured, locked facility. Sample pallets were shipped weekly, by bonded carrier, directly to ALS labs in Twin Falls, ID. Chains of custody were maintained at all times. All core was collected from the drill rig daily and stored in a secure, locked facility until the core was dispatched by bonded courier to American Assay Labs. Chains of custody were maintained at all times. All rock samples were in the direct control of company geologists until dispatched to American Assay Labs.
Audits or reviews	*The results of any audits or reviews of sampling techniques and data.*	No external audits or reviews have been conducted to date. However, sampling techniques are consistent with industry standards.

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.*	ARR acquired 5 unpatented federal lode claims on BLM US Federal Land totalling 71.6 acres (29 has) from Zenith Minerals, Ltd (Zenith). in 2021. 67 unpatented federal lode claims were staked by ARR that totalled 1193.3 acres (482 ha) in summer 2021. ARR staked 182 unpatented federal lode claims in March 2022 covering an area of approximately 3,088 acres (1,250 ha). ARR staked 118 unpatented federal lode claims in November 2022 covering an area of approximately 2,113 acres (855 ha). As of December 31, 2022, ARR controlled 367 unpatented federal lode claims and 4 Wyoming State mineral licenses covering 8,165 acres (3,304 ha).
	The security of the tenure held at the time of reporting and any known impediments to obtaining a licence to operate in the area.	No impediments to holding the claims exist. To maintain the claims an annual holding fee of $165/claim ($11,880.00) is payable to the BLM. To maintain the State leases minimum rental payments of $1/acre for 1-5 years; $2/acre for 6-10 years; and $3/acre if held for 10 years or longer.
Exploration done by other parties	*Acknowledgment and appraisal of exploration by other parties.*	Prior to sampling by WIM on behalf of Blackfire Minerals and Zenith there was no previous sampling by any other groups within the ARR claim and Wyoming State Lease blocks.
Geology	*Deposit type, geological setting and style of mineralisation.*	The REE's occur within Allanite which occurs as a variable constituent of the Red Mountain Pluton. The occurrence can be characterised as a disseminated type rare earth deposit.
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:*	FTE DRILLING USA INC. of Mount Uniacke, Nova Scotia used a Schraam T-450 track mounted rig to drill 38 reverse circulation drill holes. Drill hole depths for 37 holes was 150m and one hole at 175.5m. Authentic Drilling from Kiowa, Colorado used both a track mounted and ATV mounted core rig to drill nine HQ diameter core holes. From March to April 2022, ARR drilled nine core holes across the Halleck Creek claim area. Drill holes ranged in depth from 194 to 352.5 ft with a total drilled length of 3,008 ft (917 m).
	easting and northing of the drill hole collar	All relevant information for this section can be found in Table 11 and Table 13 above.
	elevation or RL (Reduced Level – elevation above sea level	

	in metres) of the drill hole collar *dip and azimuth of the hole* *downhole 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.	No Drilling data has been excluded.
Data aggregation methods	*In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.*	Average Grade values were cut at minimum of TREO 1,500 ppm.
	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.	Assays are representative of each 5 ft (1.52 m) sample interval.
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalents used.
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 unknown and only the downhole lengths are reported, there should be a clear statement*	Allanite mineralization observed at Halleck Creek occurs uniformly throughout the CQM and BHS rocks of within the Red Mountain Pluton. Therefore, the geometry of mineralisation does not vary with drill hole orientation or angle within homogeneous rock types.

	to this effect (e.g. 'down hole length, true width not known').	
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.*	Figure 13 above illustrates the locations of all drill holes at Halleck Creek.
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 practised to avoid misleading reporting of Exploration Results.*	The latest exploration results reported in "Mapping and Surface Sampling Summary at the Halleck Creek Project Area: April 2022". All relevant information for this section can be found in Table 1 of the report entitled "Summary" of Maiden Exploration Drilling at the Halleck Creek Project Area", "May 2022.
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.*	In hand specimen this rock is a red colored, hard and dense granite with areas of localised fracturing. The rock shows significant iron staining and deep weathering. Microscopic description: In hand specimen the samples represent light colored, fairly coarse-grained granitic rock composed of visible secondary iron oxide, amphibole, opaques, clear quartz and pink to white colored feldspar. All of the specimens show moderate to strong weathering and fracturing. Allanite content is variable from trace to 2%. Rare Earths are found within the Allanite. Historical metallurgical testing consisted of concentrating the Allanite by both gravity and magnetic separation. The current program employs sequential high gradient magnetic separation and flotation to produce a concentrate suitable for downstream rare earth elements extraction.

Further work	*The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).*	Further drilling is planned to increase the area of the project, and to increase confidence levels of resources. Geological mapping and surface sampling will also be performed to define and prioritize drilling targets.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Additional drilling is planned in new exploration areas and to increase resource confidence levels.

Section 3 Estimation and Reporting of Mineral Resources

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.*	Drill hole data header, lithologic data checked by field geologists and by visual examination on maps and drill hole striplogs. Assay and Qa/Qc data were imported into the database directly from electronic spreadsheets provide by laboratories. Histograms graphical logs were also prepared and reviewed by ARR geologists.
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.*	Mr. Dwight Kinnes visited the Halleck Creek site during the RC and core drilling projects. Mr. Jim Guilinger has not visited the site during the RC and core drilling projects. ARR will facilitate a site visit during the 2023 calendar year. Mr. Alf Gliman has not visited the site during the RC and core drilling projects. Mr. Gilman resides in Perth, Western Australia. Site visits to the project have so far been logistically difficult and very expensive.
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 and controlling Mineral Resource estimation.* *The factors affecting continuity both of grade and geology.*	The Halleck Creek RE deposit is contained with rocks of the Red Mountain Pluton. These rocks consist primarily of clinopyroxene quartz monzonite (CQM), and biotite hornblende syenite (BHS). These two lithologies are difficult to visually distinguish. However, the concentration of rare earth elements is observable between lithologies. Rocks of the Elmers Rock Greenstone Belt (ERGB) and the Sybille (Syb) intrusion are easily distinguishable from rocks of the RMP. Thse rock units are essentially barren of rare earth elements. Therefore, the confidence in discerning rocks of the RMP from is high.

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td></td><td></td><td>The extent of the RMP relative to other units was outlined into modelling domains used for resource estimates.
The distribution of allanite throughout CQM and BHS rocks of the RMP is generally uniform and is not structurally controlled. Potassic alternation observed does not appear to affect the grade of allanite throughout the deposit.</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>The Halleck Creek REE project currently contains two primary resource areas: the Red Mountain area and the Overton Mountain area. Resources also extend into the Bluegrass resource area.
The Red Mountain resource area is bounded to the west by the ERGB, and to the south by the Syb. Further exploration is needed to determine the extent to the north and two the east.
RC samples with TREO grades exceeding 1,500 ppm occurred at the base of 37 drill holes in the Red Mountain resource area extending down to depths of 150m with one hole extending to a depth of 175.5m. Therefore, ARR considers the Red Mountain resource area to be open at depth.
The Overton Mountain resource area is bounded to the west by mineral claims, and therefore, remains open to the west. Lower grade BHS rocks occur at the northern end of Overton Mountain. Drilling data to the east and south indicate that the Overton Mountain resource area remains open across Bluegrass Creek.
Like the Red Mountain drilling, RC samples at Overton Mountain contained TREO assay values exceeding 3,500 ppm to depths of 150m in 18 holes. Therefore, ARR considers the Overton Mountain resource area to be open at depth.</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.</td><td>Odessa resources created block models for Overton Mountain and Red Mountain were created using the Leapfrog geological modelling software.
Overton Mountain Block Model Parameters
<table>
<tr><th>Block Model Parameter</th><th>Value</th></tr>
<tr><td>Parent Block Size</td><td>20m</td></tr>
<tr><td>Sub-block count (i, j, k)</td><td>4, 4, 4</td></tr>
<tr><td>Minimum block size (i, j, k)</td><td>5m ,5m 5m</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Criteria</th><th>JORC Code explanation</th><th>Commentary</th></tr>
<tr><td></td><td>The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.
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.</td><td>
<table>
<tr><td>Base point (x, y, z)</td><td>474000.00, 4634200.00, 2000.00</td></tr>
<tr><td>Boundary size (W x L x H)</td><td>2040.00, 2280.00, 400.00</td></tr>
<tr><td>Azimuth</td><td>0</td></tr>
<tr><td>Dip</td><td>0</td></tr>
<tr><td>Pitch</td><td>0</td></tr>
</table>
Red Mountain Block Model Parameters
<table>
<tr><th>Block Model Parameter</th><th>Value</th></tr>
<tr><td>Parent Block Size</td><td>20m</td></tr>
<tr><td>Sub-block count (i, j, k)</td><td>4, 4, 4</td></tr>
<tr><td>Minimum block size (i, j, k)</td><td>5m ,5m 5m</td></tr>
<tr><td>Base point (x, y, z)</td><td>474500.00, 4631600.00, 2000.00</td></tr>
<tr><td>Boundary size (W x L x H)</td><td>1660.00, 2240.00, 400.00</td></tr>
<tr><td>Azimuth</td><td>0</td></tr>
<tr><td>Dip</td><td>0</td></tr>
<tr><td>Pitch</td><td>0</td></tr>
</table>
The block models contain attributes pertaining to resource block, resource category, grade class, geologic domain and numerical attributes for TREO, rare earth oxides of all rare earth elements we well as thorium and uranium.
Geological domains focused on CQM and BHS lithologies provided control of resource block boundaries along with variography.</td></tr>
<tr><td>Moisture</td><td>Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.</td><td>Tonnages are based on dry basis.</td></tr>
<tr><td>Cut-off parameters</td><td>The basis of the adopted cut-off grade(s) or quality parameters applied.</td><td>Currently a subjective cut-off grade of 1,500 ppm TREO was applied to reported resource estimates. Ongoing metallurgical testwork and upcoming conceptual planning will provide input to determine a net smelter return.</td></tr>
<tr><td>Mining factors or assumptions</td><td>Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider</td><td>No mine plan or design has been prepared at this stage however the shallow nature of the deposit assumes extraction by open pit mining methods.</td></tr>
</table>

Criteria	JORC Code explanation	Commentary
	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 rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.*	ARR is performing preliminary metallurgical testwork at Halleck Creek. At present ARR has not made any definitive metallurgical assumptions about the project.
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.*	ARR is in the process of outlining environmental, social, and community impacts regarding the potential development of the project. These impacts are being included in conceptual designs of all facets of the project.
Bulk density	*Whether assumed or determined. If 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.*	Section 13.2.2 above shows that an average specific gravity of 2.70 represents the in-place ore material at Halleck Creek.
Classification	*The basis for the classification of the Mineral Resources into varying confidence categories.*	The basis of classification of mineral resources was based on geostatistical analysis of variograms of rare earth elements. The variographic results showed

Criteria	JORC Code explanation	Commentary
	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 data). *Whether the result appropriately reflects the Competent Person's view of the deposit.*	a resource boundary based on 90% of sill range of approximately 325-meters is applicable at Halleck Creek. These results do reflect the CP's view of the project.
Audits or reviews	*The results of any audits or reviews of Mineral Resource estimates.*	There have not been any audits of mineral resource estimates.
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 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.*	Reported resources for Halleck Creek are in-place global estimates of tonnage and rare earth grade. The basis of classification of mineral resources was based on geostatistical analysis of variograms of rare earth elements. Within the confines of the available data resource estimates should be

Appendix B – Drill Hole Lithology

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM001	*474,948.00*	*4,635,480.00*	*5,792.00*	*352.00*	*22N*	*71W*	*24*	*0.00*	*90.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
3.51	14.97	11.46	RMP	MG			CQM		se	FSP		HB		QZ							
14.97	15.82	0.85	RMP	MG			CQM	Mafic-rich	se	FSP		HB		QZ							
15.82	17.83	2.01	RMP	MG			CQM		se	FSP		HB		QZ							
17.83	18.11	0.27	RMP	MG			CQM	Altered	se	FSP		HB		QZ							
18.11	25.09	6.98	RMP	MG			CQM		se	FSP		HB		QZ							
25.09	25.24	0.15	RMP	MG			CQM	Mafic-rich	se	FSP		HB		QZ							
25.24	30.36	5.12	RMP	MG			CQM		se	FSP		HB		QZ							
30.36	36.00	5.64	RMP	MG			CQM		se	FSP		HB		QZ							
36.00	37.61	1.62	RMP	MG			CQM	Altered	se	FSP		HB		QZ							
37.61	43.62	6.00	RMP	MG			CQM		se	FSP		HB		QZ							
43.62	43.86	0.24	RMP	MG			CQM	Mafic-rich	se	FSP		HB		QZ							
43.86	55.23	11.37	RMP	MG			CQM		se	FSP		HB		QZ							
55.23	55.57	0.34	RMP	MG			CQM	Mafic-rich	se	FSP		HB		QZ							
55.57	58.28	2.71	RMP	MG			CQM		se	FSP		HB		QZ							
58.28	58.58	0.30	RMP	MG			CQM	Mafic-rich	se	FSP		HB		QZ							
58.58	97.54	38.95	RMP	MG			CQM		se	FSP	70	HB	30								
			RMP				CQM														
97.54	99.24	1.71	RMP	MG			BHS	Altered	se	FSP		HB		QZ							
99.24	106.68	7.44	RMP	MG			BHS		se	FSP		HB		QZ							

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM002	*474,923.00*	*4,635,391.00*	*5,799.00*	*352.50*	*22N*	*71W*	*24*	*245.00*	*65.00*

Adjusted Depths (m)				**Grn Siz**	**Texture**	**Color**			**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
From	**To**	**Thick**	**Unit ID**				**Lith Type**	**Lith Mod**													
6.40	12.68	6.28	RMP	MG		PKGY	CQM		se	FSP	60	HB	30	QZ	10						
12.68	16.06	3.38	RMP	MG		PKGY	CQM	Altered	se	FSP	60		30		10						
16.06	17.43	1.37	RMP	MG		PKGY	CQM		se	FSP	60		30		10						
17.43	17.92	0.49	RMP	MG		PKGY	CQM	Altered	se	FSP	60		30		10						
17.92	26.21	8.29	RMP	MG		PKGY	CQM		se	FSP	60		30		10						
26.21	27.58	1.37	RMP	MG		PKGY	CQM	Altered	se	FSP	60		30		10						
27.58	34.90	7.32	RMP	MG		PKGY	CQM		se	FSP	60		30		10						
34.90	35.05	0.15	RMP	CG		WH	PG		ineq	FSP		QZ		BT							
35.05	36.94	1.89	RMP	MG		PKGY	CQM		se	FSP	60		30		10						
36.94	37.00	0.06	RMP	MG		PKGY	CQM		se	FSP	60		30		10						
37.00	39.78	2.77	RMP	CG		WH	PG		ineq	FSP		QZ		BT							
39.78	43.16	3.38	RMP	MG		PKGY	CQM		se	FSP	60		30		10						
43.16	43.43	0.27	RMP	MG		PKGY	CQM	Altered	se	FSP	60		30		10						
43.43	76.05	32.61	RMP	MG		PKGY	CQM		se	FSP	60		30		10						
76.05	88.36	12.31	RMP	MG		PKGY	CQM		se	FSP	60		30		10						
88.36	91.10	2.74	RMP	MG		PKGY	BHS		se	FSP	60		30		10						
91.10	92.63	1.52	RMP	MG		PKGY	BHS	Altered	se	FSP	60		30		10						
92.63	107.44	14.81	RMP	MG		PKGY	BHS		se	FSP	60		30		10						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM003	*474,996.00*	*4,635,508.00*	*5,788.00*	*352.00*	*22N*	*71W*	*24*	*0.00*	*90.00*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
3.35	10.30	6.95	RMP	MG		GY	CQM		eq	FSP	60	HB	30	QZ	10						
10.30	12.95	2.65	RMP	MG		GY	CQM	Altered	eq	FSP	60	HB	30	QZ	10						
12.95	17.19	4.24	RMP	MG		GY	CQM		eq	FSP	60	HB	30	QZ	10						
17.19	20.18	2.99	RMP	MG		GY	CQM	Altered	eq	FSP	60	HB	30	QZ	10						
20.18	24.11	3.93	RMP	MG		GY	CQM		eq	FSP	60	HB	30	QZ	10						
24.11	27.16	3.05	RMP	MG		GY	CQM		eq	FSP	60	HB	30	QZ	10						
27.16	41.70	14.54	RMP	MG		GY	CQM		eq	FSP	60	HB	30	QZ	10						
41.70	57.24	15.54	RMP	MG		GY	CQM		eq	FSP	60	HB	30	QZ	10						
57.24	57.91	0.67	RMP	MG		BK	CQM	Mafic-rich	eq	FSP	45	HB	45	QZ	10						
57.91	68.12	10.21	RMP	MG		GY	CQM		eq	FSP	60	HB	30	QZ	10						
68.12	68.64	0.52	RMP	MG		BK	BHS	Mafic-rich	eq	FSP	45	HB	45	QZ	10						
68.64	73.58	4.94	RMP	MG		GY	BHS		eq	FSP	60	HB	30	QZ	10						
73.58	73.64	0.06	RMP	MG		BK	BHS	Mafic-rich	eq	FSP	45	HB	45	QZ	10						
73.64	76.96	3.32	RMP	MG		GY	BHS		eq	FSP	60	HB	30	QZ	10						
76.96	94.79	17.83	RMP	MG		GY	BHS		eq	FSP	60	HB	30	QZ	10						
94.79	107.29	12.50	DI	MG		GY	BHS		eq	FSP	60	HB	30	QZ	10						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM004	*475,043.00*	*4,635,485.00*	*5,786.00*	*352.00*	*22N*	*71W*	*24*	*0.00*	*90.00*

Adjusted Depths (m)																					
From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
1.83	14.81	12.98	RMP	MG		PKGY	CQM		se	FSP	60	HB	35	QZ	5						
14.81	29.75	14.94	RMP	MG		PKGY	CQM		se	FSP	60	HB	35	QZ	5						
29.75	30.11	0.37	RMP	MG		PKGY	CQM	Altered	se	FSP	60	HB	35	QZ	5						
30.11	31.70	1.58	RMP	MG		PKGY	CQM		se	FSP	60	HB	35	QZ	5						
31.70	38.71	7.01	RMP	MG		PKGY	CQM	Fractured	se	FSP	60	HB	35	QZ	5						
38.71	43.19	4.48	RMP	MG		PKGY	CQM	Altered	se	FSP	60	HB	35	QZ	5						
43.19	47.34	4.15	RMP	CG		PKGY	CQM		se	FSP	60	HB	35	QZ	5						
47.34	55.90	8.56	RMP	MG		PKGY	CQM		se	FSP	60	HB	35	QZ	5						
55.90	57.00	1.10	RMP	MG		PKGY	CQM	Mafic-rich	se	FSP	60	HB	35	QZ	5						
57.00	65.96	8.96	RMP	MG		PKGY	CQM		se	FSP	60	HB	35	QZ	5						
65.96	69.04	3.08	RMP	MG		PKGY	CQM	Altered	se	FSP	60	HB	35	QZ	5						
69.04	75.93	6.89	RMP	MG		PKGY	CQM		se	FSP	60	HB	35	QZ	5						
75.93	84.03	8.11	RMP	MG		PKGY	CQM		se	FSP	60	HB	35	QZ	5						
84.03	86.81	2.77	RMP	MG		PKGY	CQM	Mafic-rich	se	FSP	60	HB	35	QZ	5						
86.81	107.29	20.48	RMP	MG		PKGY	CQM		se	FSP	60	HB	35	QZ	5						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM005	*474,907.00*	*4,635,513.85*	*5,799.00*	*351.00*	*22N*	*71W*	*24*	*0.00*	*90.00*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
3.20	9.45	6.25	RMP				CQM														
9.45	15.70	6.25	RMP				CQM														
15.70	17.01	1.31	RMP				BHS														
17.01	20.15	3.14	RMP				BHS														
20.15	24.84	4.69	RMP				BHS														
24.84	26.61	1.77	RMP				BHS														
26.61	31.15	4.54	RMP				BHS														
31.15	31.94	0.79	RMP				BHS														
31.94	44.07	12.13	RMP				BHS														
44.07	47.00	2.93	RMP				BHS														
47.00	55.17	8.17	RMP				BHS														
55.17	68.88	13.72	RMP				BHS														
68.88	81.08	12.19	RMP				BHS														
81.08	83.85	2.77	RMP				BHS	Fine-grain													
83.85	90.53	6.68	RMP				CQM														
90.53	92.57	2.04	RMP				CQM	Fine-grain													
92.57	94.79	2.23	RMP				CQM														
94.79	95.59	0.79	RMP				CQM	Fine-grain													
95.59	97.08	1.49	RMP				CQM														
97.08	102.02	4.94	RMP				BHS	Medium-gr													
102.02	106.98	4.97	RMP				BHS														

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM006	*474,453.91*	*4,636,138.92*	*5,806.15*	*492.13*	*22N*	*71W*	*13*	*180.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	6.00	6.00	Qal			bntn	CV			qz	35	fsp	30	mfc	30			cal			
6.00	30.00	24.00	RMP			GY	BHS			fsp	60	hb	30	qz	10			cal			
30.00	31.50	1.50	RMP			bk	MM														
31.50	117.00	85.50	RMP			GY	BHS			fsp	65	hb	25	qz	10			PY	il	il	0.5
117.00	118.50	1.50	RMP			gy	BHS	mu													
118.50	123.00	4.50	RMP			gy	FQM			fsp	60	hb	35	qz	5			il			
123.00	124.50	1.50	RMP			gy	FQM	sa													
124.50	129.00	4.50	RMP			gy	FQM			fsp	60	hb	35	qz	5			il			
129.00	150.00	21.00	RMP			gy	FQM	sa													

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM007	*474,336.28*	*4,635,641.71*	*5,829.02*	*492.13*	*22N*	*71W*	*13*	*180.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	1.50	1.50	Qal			bntn	CV	cl													
1.50	7.50	6.00	RMP			bntn	CQM			fsp	65	hb	25	qz	10						
7.50	10.50	3.00	RMP			gy	FQM			fsp	60	hb	35	qz	5						
			RMP				CQM														
			Qal				BHS														
42.00	87.00	45.00	RMP			gygr	FM			fsp	64	hb	30	qz	5			ol	py	py	####
87.00	88.50	1.50	DI			gy	IF												py	py	####
88.50	91.50	3.00	RMP			gygr	FM			fsp	62	hb	30	qz	5			ol	py	py	####
91.50	99.00	7.50	RMP			GYGR	CQM			FSP	65	HB	25	QZ	10						
99.00	106.50	7.50	RMP			GYGR	FM			FSP	63	HB	20	QZ	10			ol			
106.50	108.00	1.50	RMP			GYGR	CQM			FSP	65	HB	25	QZ	10						
108.00	141.00	33.00	RMP			GYGR	FM			FSP	63	HB	20	QZ	10			ol			
141.00	150.00	9.00	RMP			GYGR	CQM			FSP	65	HB	25	QZ	10						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM008	*474,662.25*	*4,635,621.56*	*5,786.62*	*492.13*	*22N*	*71W*	*13*	*200.00*	*-65.00*

Adjusted Depths (m)																					
From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	150.00	150.00	RMP			WHG	BHS											BT			
			RMP			WHG	BHS											BT			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM009	*475,021.50*	*4,635,648.93*	*5,734.09*	*492.13*	*22N*	*71W*	*13*	*220.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	148.50	148.50	RMP			WHG	BHM		SE	FSP	65	HB	20	QZ	10			BT			
			RMP			WHG	BHM		se	FSP	65	HB	20	QZ	10			BT			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM010	*475,246.38*	*4,635,668.80*	*5,712.05*	*492.13*	*22N*	*71W*	*13*	*220.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	6.00	6.00	Qal			bntn	CV	ca										MS	qz	qz	60
148.50	150.00	1.50	RMP			pkgy	CQM			fsp	65	hb	30	qz	5			il			
			RMP				BHS														

Drill Hole Lithology Summary

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Azimuth	Inclin
HC22-OM011	*475,454.96*	*4,635,586.47*	*5,691.05*	*492.13*	*22N*	*71W*	*24*	*50.00*	*-65.00*

Adjusted Depths (m)																					
From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
4.50	9.00	4.50	Qal			bntn	CV			fsp	50	hb	25	qz	17			cal	bt	bt	3
108.00	150.00	42.00	RMP			GY	CQM			FSP	65	HB	30	QZ	5						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM012	*475,632.59*	*4,635,428.20*	*5,679.78*	*492.13*	*22N*	*71W*	*24*	*0.00*	*-65.00*

Adjusted Depths (m)																					
From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	1.50	1.50	Qal			BNOR	CV														
1.50	96.00	94.50	RMP			BNOR	CQM	OX	SE	FSP	75	HB	20	QZ	5						
96.00	97.50	1.50	DI			BK	IF		EQ												
97.50	150.00	52.50	RMP			PKGY	CQM		SE	FSP	75	HB	20	QZ	5						

Drill Hole Lithology Summary

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Azimuth	Inclin
HC22-OM013	*475,539.20*	*4,635,251.10*	*5,744.53*	*492.13*	*22N*	*71W*	*24*	*150.00*	*-85.00*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	10.50	10.50	Qal			bncr	CV	CL		qz		fsp		msc				CAL			
10.50	13.50	3.00	RMP			ortn	CQM	cl		qz		fsp		hb							
13.50	16.50	3.00	DI			bk	IF														
16.50	18.00	1.50	RMP			pkgy	FQM			hb	30	fsp	50	qz	10			bt			
18.00	66.00	48.00	RMP			orpk	CQM			fsp	60	hb	30	qz	10			il			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM014	*475,703.61*	*4,635,229.56*	*5,665.76*	*492.13*	*22N*	*71W*	*24*	*90.00*	*-65.00*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	10.50	10.50	Qal			bntn	CV														
10.50	21.00	10.50	RMP			pkgy	CQM			fsp	52	hb	30	qz	8			il			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM015	*475,622.76*	*4,635,052.85*	*5,669.28*	*492.13*	*22N*	*71W*	*24*	*270.00*	*-65.00*

Adjusted Depths (m)				**Grn Siz**	**Texture**	**Color**			**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
From	**To**	**Thick**	**Unit ID**				**Lith Type**	**Lith Mod**													
0.00	7.50	7.50	Qal			bntn	CV	cl													
			RMP				BHS														
12.00	150.00	138.00	RMP			pkgy	CQM			fsp	65	hb	30	qz	5						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM016	*475,758.58*	*4,634,921.60*	*5,669.28*	*492.13*	*22N*	*71W*	*24*	*0.00*	*-90.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	10.50	10.50	Qal				CV	cl													
10.50	150.00	139.50	RMP			pkgy	CQM	ox	se	fsp	60	hb	30	qz	10						
			RMP				BHS														

Drill Hole Lithology Summary

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Azimuth	Inclin
HC22-OM017	475,378.12	4,634,744.93	5,713.82	492.13	22N	71W	24	290.00	-65.00

Adjusted Depths (m)																					
From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	3.00	3.00	Qal			BNOR	CV	ox													
3.00	115.50	112.50	RMP			PKGY	CQM		SE	FSP	70	HB	25	QZ	5						
115.50	121.50	6.00	RMP			BK	GR		SE	FSP	50	HB	35	QZ	15						
121.50	150.00	28.50	RMP			WHG	CQM		SE	FSP	70	HB	25	QZ	5						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM018	*475,194.78*	*4,635,079.42*	*5,701.21*	*492.13*	*22N*	*71W*	*24*	*0.00*	*-90.00*

Adjusted Depths (m)																					
From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	3.00	3.00	Qal			BNOR	CV	ox													
3.00	8.00	5.00	RMP			PKGY	CQM		SE	FSP	60	HB	30	QZ	10						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM019	*475,059.49*	*4,635,246.09*	*5,755.00*	*492.13*	*22N*	*71W*	*24*	*0.00*	*-90.00*

Adjusted Depths (m)				**Grn Siz**	**Texture**	**Color**			**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
From	**To**	**Thick**	**Unit ID**				**Lith Type**	**Lith Mod**													
0.00	3.00	3.00	Qal			BNOR	CV	ox													
3.00	150.00	147.00	RMP			PKGY	CQM		SE	FSP	65	HB	30	QZ	5						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM020	*475,154.24*	*4,635,400.66*	*5,756.56*	*492.13*	*22N*	*71W*	*24*	*200.00*	*-65.00*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	4.50	4.50	Qal			bntn	CV	sa													
4.50	150.00	145.50	RMP			gygr	CQM			fsp	63	hb	30	qz	5			cal			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM021	*475,053.72*	*4,634,871.74*	*5,783.01*	*492.13*	*22N*	*71W*	*24*	*290.00*	*-65.00*

Adjusted Depths (m)																					
From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
1.50	4.50	3.00	Qal			bntn	CV	cl													
4.50	150.00	145.50	RMP			pkgy	CQM			FSP	65	hb	30	qz	5			cal			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM022	*474,934.57*	*4,635,044.03*	*5,817.78*	*492.13*	*22N*	*71W*	*24*	*360.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	144.00	144.00	RMP			gygr	CQM			fsp	65	hb	30	qz	5						
144.00	145.50	1.50	DI			whpk	IN			fsp	35	qz	35	mfc	10						
145.50	150.00	4.50	RMP			gygr	CQM			fsp	65	hb	30	qz	5						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM023	*475,250.25*	*4,634,562.95*	*5,768.65*	*492.13*	*22N*	*71W*	*24*	*180.00*	*-90.00*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	3.00	3.00	Qal			bntn	CV														
3.00	150.00	147.00	RMP			pk	CQM			fsp	60	hb	35	qz	5			cal			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM024	*474,663.18*	*4,634,971.49*	*5,929.40*	*492.13*	*22N*	*71W*	*24*	*240.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	1.50	1.50	Qal			bntn	CV														
1.50	67.50	66.00	RMP			gygr	CQM			fsp	65	hb	30	qz	5						
67.50	70.50	3.00	RMP			grbk	CQM			fsp	20	hb	60	qz	5			ol			
70.50	76.50	6.00	RMP			gygr	CQM			fsp	65	hb	30	qz	5						
76.50	78.00	1.50	RMP			grbk	CQM			fsp	20	hb	60	qz	5			ol			
78.00	150.00	72.00	RMP			gygr	CQM			fsp	65	hb	30	qz	5						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-OM025	*474,783.85*	*4,634,503.85*	*5,768.65*	*492.13*	*22N*	*71W*	*24*	*360.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	1.50	1.50	Qal			bntn	CV														
1.50	57.00	55.50	RMP				CQM			fsp	65	hb	30	qz	5						
57.00	58.50	1.50	RMP			pkgy	MQM			fsp	60	hb	35	qz	5						
58.50	96.00	37.50	RMP				CQM			fsp	65	hb	30	qz	5						
96.00	100.50	4.50	RMP			gy	FM			fsp	15					vfg	ap	mfc			
100.50	121.50	21.00	RMP				CQM			fsp	65	hb	30	qz	5						
121.50	124.50	3.00	RMP			pkgy	CQM			fsp	60	mfc	35	qz	5						
124.50	150.00	25.50	RMP				CQM			fsp	65	hb	30	qz	5						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM001	*475,701.00*	*4,632,770.00*	*5,728.00*	*352.00*	*22N*	*71W*	*25*	*0.00*	*90.00*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
1.83	14.33	12.50	RMP	MG			CQM		se	FSP	65	HB		QZ							
14.33	14.72	0.40	RMP	MG			CQM	Altered	se	FSP	65	HB	30	QZ	10						
14.72	15.85	1.13	RMP	MG			CQM		se	FSP	65	HB	30	QZ	10						
15.85	27.86	12.01	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
27.86	27.92	0.06	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
27.92	29.57	1.65	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
29.57	30.69	1.13	RMP	MG		PKGY	CQM	Altered	se	FSP	65	HB	30	QZ	10						
30.69	31.79	1.10	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
31.79	33.53	1.74	RMP	MG		PKGY	CQM	AL	se	FSP	65	HB	30	QZ	10						
33.53	34.53	1.01	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
34.53	35.30	0.76	RMP	MG		PKGY	CQM	Fine-grain	se	FSP	65	HB	30	QZ	10						
35.30	51.02	15.73	RMP	MG		PKGY	CQM	AL	se	FSP	65	HB	30	QZ	10						
51.02	54.68	3.66	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
54.68	57.00	2.32	RMP	MG		PKGY	CQM	AL	se	FSP	65	HB	30	QZ	10						
57.00	57.27	0.27	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
57.27	73.58	16.31	RMP	MG		PKGY	CQM	AL	se	FSP	65	HB	30	QZ	10						
73.58	75.68	2.10	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
75.68	77.42	1.74	RMP	CG		GY	IN	AL	se	FSP	50	HB	25	QZ	25						
77.42	82.51	5.09	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
82.51	86.59	4.08	RMP	CG		GY	IN		se	FSP	50	HB	25	QZ	25						
86.59	87.20	0.61	RMP	MG		PKGY	CQM	Altered	se	FSP	65	HB	30	QZ	10						
87.20	91.59	4.39	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
91.59	95.86	4.27	RMP	MG		PKGY	CQM	AL	se	FSP	65	HB	30	QZ	10						
95.86	99.67	3.81	RMP	MG		PKGY	CQM		se	FSP	65	HB	30	QZ	10						
99.67	103.33	3.66	RMP	MG		PKGY	CQM	AL	se	FSP	65	HB	30	QZ	10						
103.33	103.60	0.27	RMP	FG		GY	IN		eq	FSP	60	MF	20	QZ	20						
103.60	106.34	2.74	RMP	CG		PKGY	CQM	AL	se	FSP	65	HB	30	QZ	10						
106.34	106.53	0.18	RMP	FG		GY	IN		eq	FSP	60	MF	20	QZ	20						
106.53	107.29	0.76	RMP	CG		PKGY	CQM	AL	se	FSP	65	HB	30	QZ	10						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM002	*475,706.00*	*4,632,504.00*	*5,744.00*	*351.00*	*22N*	*71W*	*25*	*0.00*	*90.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
5.03	10.61	5.58	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
10.61	11.52	0.91	RMP	MG		GY	CQM	Fine-grain	se	FSP	65	HB	25	QZ	10						
11.52	14.23	2.71	RMP	MG		GY	CQM	AL	se	FSP	65	HB	25	QZ	10						
14.23	27.04	12.80	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
27.04	28.90	1.86	RMP	MG		GY	CQM	AL	se	FSP	65	HB	25	QZ	10						
28.90	33.89	5.00	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
33.89	34.05	0.15	RMP	MG		GY	CQM	Stained	se	FSP	65	HB	25	QZ	10						
34.05	37.95	3.90	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
37.95	39.41	1.46	RMP	MG		GY	CQM	Altered	se	FSP	65	HB	25	QZ	10						
39.41	57.94	18.53	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
57.94	58.73	0.79	RMP	MG		GY	CQM	Altered	se	FSP	65	HB	25	QZ	10						
58.73	59.77	1.04	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
59.77	60.05	0.27	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
60.05	65.35	5.30	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
65.35	65.53	0.18	RMP	FG		PK	IN		se	FSP	35	MF	30	QZ	35						
65.53	67.79	2.26	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
67.79	73.85	6.07	RMP	MG		PKGY	CQM		se	FSP	65	HB	25	QZ	10						
73.85	74.31	0.46	RMP	MG		GY	CQM	Altered	se	FSP	60	HB	30	QZ	10						
74.31	79.92	5.61	RMP	FG		GY	CQM			FSP	65	HB	25	QZ	10						
79.92	80.99	1.07	RMP	FG		BK	IN	FL	se	FSP	35	MF	30	QZ	35						
80.99	88.85	7.86	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
88.85	92.42	3.57	RMP	MG		PKGY	IN		se	FSP	55	HB	25	QZ	20						
92.42	92.57	0.15	RMP	FG		PKGY	AP		se	KFS	50	QZ	50								
92.57	92.81	0.24	RMP	MG		PKGY	IN		se	FSP	55	MF	25	QZ	20						
92.81	98.88	6.07	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						
98.88	99.06	0.18	RMP	FG		PKGY	IN			FSP	35	MF	30	QZ	35						
99.06	106.98	7.92	RMP	MG		GY	CQM		se	FSP	65	HB	25	QZ	10						

Drill Hole Lithology Summary

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Azimuth	Inclin
HC22-RM003	*475,109.00*	*4,632,039.00*	*5,819.00*	*351.50*	*22N*	*71W*	*36*	*310.00*	*65.00*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
9.45	14.17	4.72	RMP	MG			CQM	AL	se	FSP	60	HB	30	QZ	10						
14.17	14.97	0.79	RMP	FG			IF		eq	MF	50	PL	50					BT			
14.97	15.27	0.30	RMP	MG			CQM	AL	se	FSP	60	HB	30	QZ	10						
15.27	16.34	1.07	RMP	MG			CQM		se	FSP	60	HB	30	QZ	10						
16.34	22.10	5.76	RMP	MG			CQM	AL	se	FSP	60	HB	30	QZ	10						
22.10	22.46	0.37	RMP	VC			PG			KFS	50	QZ	50								
22.46	31.18	8.72	RMP	MG			CQM	AL	se	FSP	63	HB	30	QZ	7						
31.18	33.99	2.80	RMP	CG			SBM		cp	FSP	70	MF	15	QZ		FG		MF			
33.99	40.66	6.68	RMP	CG			CQM		se	FSP	65	HB	30	QZ	5						
40.66	40.84	0.18	RMP	FG			IN		eq	FSP	35	MF	30	QZ	35						
40.84	54.41	13.56	RMP	CG			CQM	AL	se	FSP	65	HB	30	QZ	5						
54.41	62.61	8.20	RMP	CG			CQM		se	FSP	65	HB	30	QZ	5						
62.61	64.34	1.74	RMP	CG			CQM	AL	se	FSP	65	HB	30	QZ	5						
64.34	71.78	7.44	RMP	CG			CQM		se	FSP	65	HB	30	QZ	5						
71.78	74.28	2.50	RMP	CG			CQM	AL	se	FSP	65	HB	30	QZ	5						
74.28	76.75	2.47	RMP	CG			CQM		se	FSP	65	HB	30	QZ	5						
76.75	77.45	0.70	RMP	CG			CQM	AL	se	FSP	65	HB	30	QZ	5						
77.45	79.25	1.80	RMP	CG			CQM		se	FSP	65	HB	30	QZ	5						
79.25	79.55	0.30	RMP	CG			PG	GR		FSP	35	MF	30	QZ	5						
79.55	83.18	3.63	RMP	CG			CQM		eq	FSP	65	HB	30	QZ	5						
83.18	89.15	5.97	RMP	CG			CQM	Altered	eq	FSP	65	HB	30	QZ	5						
89.15	91.96	2.80	RMP	CG			CQM	AL	eq	FSP	65	HB	30	QZ	5						
91.96	92.08	0.12	RMP	FG			IN		eq	FSP	35	MF	30	QZ	35						
92.08	99.30	7.22	RMP	MG			CQM	AL	eq	FSP	65	HB	30	QZ	5						
99.30	107.14	7.83	RMP	MG			CQM		eq	FSP	65	HB	30	QZ	5						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM004	*474,924.00*	*4,631,864.00*	*5,859.00*	*194.00*	*22N*	*71W*	*36*	*195.00*	*65.00*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
1.83	2.74	0.91	RMP	MG			CQM	AL		FSP	60	HB	30	QZ							
2.74	4.57	1.83	RMP	FG			IN		eq	FSP	40	BT	20	QZ	35						
4.57	5.06	0.49	RMP	VF			FG														
5.06	7.01	1.95	DI	VF			DB			PL	50	MF	50								
7.01	7.62	0.61	DI	MG			DI		eq	QZ	15	pl	40	MF	45						
7.62	8.44	0.82	DI	VF			DB			PL	50	MF	50								
8.44	9.63	1.19	DI	CG			PG			BT	50	PL	50								
9.63	10.06	0.43	DI	MG			SBM		se												
10.06	12.37	2.32	SYB	MG			SBM		se												
12.37	19.08	6.71	SYB	MG			IF		eq	PL	55	QZ	20	MF	25						
19.08	21.49	2.41	SYB	FG			IN	Weakly po	pp	KF	35										
21.49	21.79	0.30	SYB	FG			IN		eq	KF	35	PL	25	MF	15						
21.79	22.86	1.07	SYB	FG			IN	Weakly po	pp	KF	35										
22.86	25.76	2.90	SYB	MG			SBM			KF	80	MF	20								
25.76	26.49	0.73	SYB	FG			IN	Weakly po	pp	KF	35		25		15						
26.49	31.46	4.97	SYB	MG			SBM			KF	80	MF	15		5						
31.46	31.70	0.24	SYB	FG			IN		eq	KF	35										
31.70	34.99	3.29	SYB	MG			SBM			FSP	80	MF	20								
34.99	35.57	0.58	SYB	FG			IN		eq	KF	35	PL		MF							
35.57	44.50	8.93	SYB	MG			SBM			KF	80	HB	15	OL	5						
44.50	44.93	0.43	SYB	MG			SBM			KF	35	PL	25	MF	15						
44.93	47.55	2.62	SYB	MG			SBM			KF	80	HB	15	OL	5						
47.55	50.60	3.05	SYB	MG			SBM	increased		KF	80	HB	15	OL	5						
50.60	51.66	1.07	SYB	MG			SBM			KF	80	HB	15	OL	5						
51.66	52.55	0.88	SYB	FG			IN		eq	KF	35	PL	25	MF	15						
52.55	55.26	2.71	SYB	MG			SBM			KF	80	HB	15	OL	5						
55.26	56.51	1.25	SYB	MG			SBM	increased		KF	80	HB	15	OL	5						
56.51	59.13	2.62	SYB	MG			SBM			KF	80	HB	15	OL	5						

Drill Hole Lithology Summary

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Azimuth	Inclin
HC22-RM005	*475,748.96*	*4,633,192.16*	*5,685.54*	*492.13*	*22N*	*71W*	*25*	*156.83*	*-64.78*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	4.50	4.50	Qal	MG		BNTN	CV		se	QZ		FSP		MS							
15.00	16.50	1.50	ERGB	FG		BK	AM		eq	HB	40	FSP	40	BT	15						
19.50	22.50	3.00	DI	CG		GY	PG		eq	BT	30	MS	30	FSP	30			QZ			
45.00	55.50	10.50	DI	MG		CRBN	IN		eq	qz	40	MF	20	FSP	40						
66.00	79.50	13.50	ERGB	FG		BK	AM		eq	FSP	40	HB	40	BT	15			QZ			
93.00	99.00	6.00	RMP	MG		GYGR	BHS		se	FSP	60	HB	30	QZ	10			mag			
31.50	36.00	4.50	ERGB	FG		BK	AM		eq	HB	40	FSP	40	BT	15			QZ			
36.00	46.50	10.50	RMP	MG		GYGR	BHS		se	FSP	60	HB	30	QZ	10			MA			
46.50	69.00	22.50	ERGB	FG		BK	AM		eq	HB	40	FSP	40	BT	15			QZ			
69.00	79.50	10.50	RMP	MG		GYGR	BHS		se	FSP	60	HB	30	QZ	10			mag			
79.50	85.50	6.00	ERGB	FG		BK	AM		eq	HB	40	FSP	40	BT	15			QZ			
85.50	90.00	4.50	RMP	MG		GYGR	CQM		eq	FSP	65	MF	10	QZ	5						
90.00	91.50	1.50	DI	FG		GY	IN		eq	FSP	40	QZ	40	MF	15						
91.50	99.00	7.50	RMP	FG		BK	BHS		eq	FSP	65	MF	10	QZ	5						
99.00	106.50	7.50	ERGB			WH	MB			CAL	100										
106.50	136.50	30.00	SYB	FG		BK	SBM	OL	eq	FSP	65	MF	10	QZ	5						
136.50	141.00	4.50	DI	FG		BNTN	IN		eq	FSP	40	QZ	40	MF	15						
141.00	150.00	9.00	SYB	FG		BK	SBM		eq	FSP	40	QZ	40	MF	10						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM006	*475,748.96*	*4,633,192.16*	*5,685.54*	*492.13*	*22N*	*71W*	*25*	*182.31*	*-65.07*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	7.50	7.50	Qal	MG		BNTN	CV	CA		QZ		FSP						MT			
7.50	22.50	15.00	RMP	MG	se	GYGR	BHS			FSP	60	HB	30	QZ	10						
22.50	24.00	1.50	ERGB	FG	eq	BK	AM	XN		HB	45	FSP	45	QZ	5			BT			
24.00	28.50	4.50	RMP	MG	se	GYGR	BHS			FSP	60	HB	30	QZ	10			MT			
28.50	34.50	6.00	ERGB	FG	eq	BK	AM	XN		HB	45	FSP	45	QZ	5			BT			
34.50	40.50	6.00	RMP	MG	se	WHTN	BHS			FSP	60	HB	30	QZ	10						
40.50	45.00	4.50	ERGB	FG	eq	BK	AM	XN		HB	45	FSP	45	QZ	5			BT			
45.00	46.50	1.50	RMP	MG	se	GYGR	BHS			FSP	60	HB	30	QZ	10			MT			
46.50	48.00	1.50	DI	FG	eq	WHTN	IN			FSP	50	HB	40	MF	10						
48.00	54.00	6.00	RMP	MG	se	GYGR	BHS			FSP	60	HB	30	QZ	10			MT			
54.00	55.50	1.50	DI	MG	se	WHTN	IN			FSP	50	HB	40	QZ	10						
55.50	79.50	24.00	RMP	MG	se	GYGR	BHS			FSP	50	HB	30	QZ	10			MT			
79.50	81.00	1.50	DI	FG	se	GY	IN			FSP	50	QZ	40	MF	10						
81.00	103.50	22.50	RMP	MG	se	GYGR	BHS			FSP	60	HB	30	QZ	10						
103.50	108.00	4.50	SYB	CG	se	BK	SBM			FSP	60	MF	10	QZ	5			OL			
108.00	111.00	3.00	ERGB	FG	eq	WHG	MB			CAL	50	QZ	15	OL	30			MT			
111.00	117.00	6.00	SYB	FG	eq	BK	SBM			FSP	60	MF	10	QZ	5			OL			
117.00	120.00	3.00	DI	FG	eq	BNTN	IN			FSP	40	QZ	40	MF	15						
120.00	133.50	13.50	SYB	FG	eq	BK	SBM			FSP	65	MF	10	QZ	5			OL			
133.50	135.00	1.50	DI	FG	eq	BNTN	IN			FSP	40	QZ	40	MF	15						
135.00	150.00	15.00	SYB	FG	eq	BK	SBM			FSP	65	MF	10	QZ	5			OL			

Drill Hole Lithology Summary

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Azimuth	Inclin
HC22-RM007	*475,613.38*	*4,633,063.16*	*5,708.47*	*492.13*	*22N*	*71W*	*25*	*270.29*	*-66.69*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	1.50	1.50	Qal	MG	ah	BNTN	CV	ox		QZ	10	HB	5	FSP	15	VF					
1.50	6.00	4.50	RMP	MG	ah	BNTN	CQM		eq	QZ	20	HB	25	FSP	55						
25.50	34.50	9.00	RMP	FG	ah	GY	CQM		eq	QZ	20	FSP	55	HB	25						
34.50	150.00	115.50	RMP	MG	ah	GY	CQM		eq	QZ	50	FSP	30	HB	20						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM008	*475,444.97*	*4,632,492.95*	*5,714.13*	*492.13*	*22N*	*71W*	*25*	*300.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	6.00	6.00	RMP	MG	eq	GRBK	BHS			FSP	60	QZ	10	HB	30	MG		BT	1	1	
6.00	27.00	21.00	RMP	MG	eq	GRBK	BHS			FSP	60	QZ	10	HB	30	MG		BT	2	2	
27.00	31.50	4.50	RMP	FG	ep	GRBK	MQM			FSP	55	QZ	5	HB	30			BT	5	5	
31.50	61.50	30.00	RMP	MG	eq	GRBK	BHS			FSP	60	QZ	14	HB	25	MG		BT	1	1	
61.50	63.00	1.50	RMP	FG	eq	GRBK	BHS	CA								VF		CAL	15	15	
63.00	91.50	28.50	RMP	MG	eq	GRBK	BHS			FSP	60	QZ	15	HB	25						
91.50	97.50	6.00	DI	FG	eq	GRBK	IN			QZ	50	FSP	25	HB	25			BT			
97.50	150.00	52.50	RMP	FG	eq	GRBK	BHS			FSP	60	QZ	15	HB	25						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM009	*475,577.79*	*4,632,309.39*	*5,762.00*	*492.13*	*22N*	*71W*	*36*	*129.75*	*-89.62*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	6.00	6.00	Qal			BNTN	CV														
10.50	150.00	139.50	RMP	MG	SE	GRGY	CQM			FSP	70	HB	20	QZ	10						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM010	*475,449.81*	*4,632,667.47*	*5,714.01*	*492.13*	*22N*	*71W*	*25*	*329.27*	*-88.86*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	3.00	3.00	Qal			BNTN	CV			QZ	20	FSP	45	HB	15	MG		IL			
4.50	58.50	54.00	RMP	MG	SE	GYGR	CQM			QZ	15	FSP	60	HB	25	MG		IL			
58.50	61.50	3.00	RMP	FG	EQ	GYGR	FQM			QZ	15	FSP	55	HB	30	MG		IL			
61.50	121.50	60.00	RMP	MG	SE	GYGR	CQM			QZ	10	FSP	60	HB	30	MG		IL			
121.50	133.50	12.00	RMP	FG	EQ	GYGR	BHM			QZ	20	FSP	50	HB	30	FG		IL			
133.50	150.00	16.50	RMP	MG	SE	GYGR	CQM			QZ	15	FSP	55	HB	30	MG		IL	BT	BT	1

Drill Hole Lithology Summary

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Azimuth	Inclin
HC22-RM011	475,245.94	4,632,699.70	5,732.99	492.13	22N	71W	25	301.65	-64.76

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	7.50	7.50	Qal	MG	SE	BNTN	CV			QZ	20	FSP	60	HB	20			IL			
7.50	150.00	142.50	RMP	MG	se	WHG	CQM			QZ	5	FSP	65	HB	30			IL			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM012	*475,194.18*	*4,632,498.81*	*5,731.30*	*492.13*	*22N*	*71W*	*25*	*271.84*	*-63.01*

Adjusted Depths (m)				**Grn Siz**	**Texture**	**Color**			**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
From	**To**	**Thick**	**Unit ID**				**Lith Type**	**Lith Mod**													
0.00	1.50	1.50	Qal			BNOR	CV														
1.50	109.50	108.00	RMP	MG	se	GYGR	BHS			FSP	65	HB	30	QZ	5			BT			
109.50	150.00	40.50	RMP	MG	se	GYGR	CQM			FSP	65	HB	30	QZ	5						

Drill Hole Lithology Summary

Drill Hole	Easting	Northing	Collar	Total Depth	Township	Range	Section	Azimuth	Inclin
HC22-RM013	475,200.04	4,632,320.59	5,725.98	492.13	22N	71W	36	271.45	-64.35

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	6.00	6.00	Qal	MG		BNOR	CV	ox		QZ	20	FSP	65	HB	15	MG		IL			
6.00	76.50	70.50	RMP	MG	se	GYGR	BHS			FSP	65	QZ	10	HB	25	MG		BT			
76.50	120.00	43.50	RMP	MG	se	GYGR	CQM			FSP	65	QZ	10	HB	25	MG		IL			
120.00	124.50	4.50	DI	VF		PKGY	IN			FSP	65	QZ	25	HB	10						
124.50	133.50	9.00	RMP	MG		GYGR	CQM			FSP	65	QZ	10	HB	25	MG		IL			
133.50	138.00	4.50	DI	VF		PK	IN			FSP	65	QZ	25	HB	10						
138.00	150.00	12.00	RMP	MG	se	GYGR	CQM			FSP	65	QZ	10	HB	25	MG		IL			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM014	*475,196.49*	*4,632,135.08*	*5,743.98*	*492.13*	*22N*	*71W*	*36*	*281.64*	*-65.96*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	3.00	3.00	Qal	MG		BNOR	CV														
3.00	22.50	19.50	RMP	MG	se	GRBK	CQM			FSP	65	HB	30		5			Il			
22.50	24.00	1.50	RMP	FG	eq	GY	FQM			FSP	62	HB	25	QZ	1	FG		BT			
24.00	55.50	31.50	RMP	MG	se	GRBK	CQM			FSP	65	HB	30	QZ	5			IL			
135.00	136.50	1.50	DI	FG	se	PK	IN			FSP	50	MF	20	QZ	30			IL			
136.50	150.00	13.50	RMP	MG	se	GYGR	CQM			FSP	70	HB	25	QZ	5			IL			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM015	*475,040.08*	*4,631,971.30*	*5,771.44*	*575.79*	*22N*	*71W*	*36*	*342.00*	*-65.19*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	4.50	4.50	RMP	MG	SE	BNOR	CQM	ox		FSP	65	HB	30	QZ	5						
4.50	6.00	1.50	DI	FG	EQ	BNOR	IN	ox		FSP	60	MF	10	QZ	30						
6.00	18.00	12.00	RMP	MG	SE	PKGY	CQM			FSP	70	HB	25	QZ	5						
18.00	19.50	1.50	DI	MG	EQ	GRBK	IF			HB	50	FSP	40	QZ	10						
19.50	22.50	3.00	RMP	MG	SE	BNOR	CQM	ox		FSP	65	HB	30	QZ	5						
24.00	25.50	1.50	DI	MG	EQ	GRBK	IF			HB	50	FSP	40	QZ	10						
25.50	43.50	18.00	RMP	MG	SE	GYGR	CQM			FSP	65	HB	30	QZ	5						
79.50	81.00	1.50	DI	FG	EQ	WHPK	IN			FSP	60	MF	10	QZ	30						
81.00	129.00	48.00	RMP	MG	SE	GYGR	CQM			FSP	75	HB	20	QZ	5						
129.00	130.50	1.50	DI	FG	EQ	WHPK	IN			FSP	60	MF	10	QZ	30						
130.50	147.00	16.50	RMP	MG	SE	GYGR	CQM			FSP	75	HB	20	QZ	5						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM016	*475,610.68*	*4,632,832.45*	*5,700.51*	*492.13*	*22N*	*71W*	*25*	*311.17*	*-65.45*

Adjusted Depths (m)

From	To	Thick	Unit ID	Grn Siz	Texture	Color	Lith Type	Lith Mod	Phn Txt	Phn 1	Phn1 %	Phn 2	Phn2 %	Phn 3	Phn3 %	Gmass Sz	GM Txt	GMass 1	Gmass1 %	GMass 2	Gmass2 %
0.00	1.50	1.50	Qal			BNOR	CV	ox													
6.00	42.00	36.00	RMP	MG	SE	BNOR	CQM	ox		FSP	72	HBL	20	QT	8						
42.00	43.50	1.50	RMP	FG	EQ	PKGR	FQM			FSP	60	HBL	30	QT	10						
43.50	127.50	84.00	RMP	MG	SE	PKGR	CQM			FSP	60	HBL	30	QT	10						
127.50	129.00	1.50	DI	FG	EQ	PKOR	IN			FSP	60	HBL	30	QT	20						
129.00	150.00	21.00	RMP	MG	SE	PKGR	CQM			FSP	60	HBL	30	QT	10						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM017	*475,478.14*	*4,633,278.68*	*5,712.60*	*492.13*	*22N*	*71W*	*25*	*210.30*	*-64.92*

Adjusted Depths (m)																					
From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	6.00	6.00	Qal			BNOR	CV	ox													
6.00	12.00	6.00	RMP	MG	se	GYGR	BHS		se	FSP	65	HBL	25	QZ	10						
12.00	13.50	1.50	DI	FG	eq	WHPK	IN		eq	FSP	60	HB	30	QZ	20						
13.50	16.50	3.00	RMP	MG	se	GYGR	BHS		se	FSP	65	HBL	25	QZ	10						
16.50	33.00	16.50	RMP	MG	se	GYGR	FM		se	FSP	50	HB	30	QZ	10			OL			
33.00	34.50	1.50	RMP	MG	se	GYGR	CQM		se	FSP	70	HB	30	QZ	10						
34.50	37.50	3.00	DI		eq	WHPK	IN	OX		FSP	60	HB	30	QZ	20						
37.50	150.00	112.50	RMP	MG	se	GRPK	CQM		se	FSP	72	HB	20	QZ	8						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM018	*475,279.30*	*4,633,269.49*	*5,749.64*	*492.13*	*22N*	*71W*	*25*	*130.00*	*-65.00*

Adjusted Depths (m)																					
From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	3.00	3.00	Qal			BNOR	CV	ox													
6.00	9.00	3.00	RMP	MG	SE	GYGR	FM			FSP	53	HBL	30	QT	10			OL			
9.00	18.00	9.00	RMP	MG	SE	GYGR	CQM			FSP	60	HBL	30	QT	10						
18.00	21.00	3.00	RMP	FG	EQ	WHPK	IN			FSP	60	HBL	30	QT	20						
21.00	25.50	4.50	RMP	GY	FM	GYGR	FM			FSP	50	HBL	30	QT	10			OL			
25.50	27.00	1.50	RMP	FG	EQ	WHPK	IN			FSP	60	HBL	30	QT	20						
27.00	100.50	73.50	RMP	MG	SE	GYGR	CQM			FSP	60	HBL	30	QT	10						
100.50	150.00	49.50	RMP	MG	SE	GYGR	FM			FSP	53	HBL	30	QT	10			OL			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM019	*475,077.07*	*4,633,075.34*	*5,825.65*	*492.13*	*22N*	*71W*	*25*	*150.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	3.00	3.00	Qal			BNOR	CV	SA		QZ	25	FSP	45	HB	30						
3.00	6.00	3.00	RMP	MG		GYGR	CQM		se	FSP	70	HB	20	QZ	10			il			
6.00	9.00	3.00	DI	FG	eq	GY	IN		eq	QZ	25	FSP	60	MF	15			il			
9.00	37.50	28.50	RMP	MG		GYGR	CQM		se	FSP	70	HB	20	QZ	10			il			
37.50	42.00	4.50	RMP	MG	se	GYGR	FM		se	QZ	10	FSP	60	HB	30			il	OL	OL	5
42.00	43.50	1.50	RMP	MG		GYGR	CQM		se	FSP	70	HB	30	QZ	10						
43.50	97.50	54.00	RMP	FG	eq	GYGR	FM		se	QZ	10	FSP	60	HB	25			il	OL	OL	8
97.50	100.50	3.00	DI	FG	eq	GY	IN			QZ	25	FSP	50	MF	25			il			
100.50	124.50	24.00	RMP	FG		GYGR	FM			QZ	10	FSP	55	MF	20			il			
124.50	150.00	25.50	RMP	MG		GYGR	CQM		se	FSP	70	HB	30	QZ	10						

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM020	*474,818.89*	*4,632,864.52*	*5,861.10*	*492.13*	*22N*	*71W*	*25*	*150.00*	*-65.00*

Adjusted Depths (m)																					
From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	3.00	3.00	Qal			BNOR	CV	ox													
3.00	22.50	19.50	ERGB	MG		WH	MB		eq	CAL	100										
22.50	28.50	6.00	RMP	MG		GYGR	CQM		se	FSP	70	HB	20	QZ	10						
28.50	30.00	1.50	ERGB	MG		WH	MB		eq	CAL	100										
30.00	34.50	4.50	RMP	MG		GYGR	CQM		se	FSP	70	HB	20	QZ	10						
34.50	63.00	28.50	ERGB	MG		WH	MB		eq	CAL	100										
63.00	73.50	10.50	DI			GY	IN			QZ	25	FSP	50	MF	25						
73.50	133.50	60.00	ERGB			WHY	MB		eq	CAL	95	QZ	5								
133.50	142.50	9.00	ERGB	MG		GYGR	QZ		eq	QZ	100										
142.50	144.00	1.50	RMP	MG		GYGR	CQM		se	FSP	70	HB	20	QZ	10						
144.00	150.00	6.00	ERGB	MG		GYGR	QZ		eq	QZ	100										

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM021	*475,477.09*	*4,633,528.28*	*5,708.65*	*492.13*	*22N*	*71W*	*25*	*180.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	4.50	4.50	Qal			BNOR	CV														
4.50	7.50	3.00	RMP			GRBK	FM		SE	FSP	60	HB	15	OL	20			QZ			
7.50	33.00	25.50	RMP			GYGR	CQM		SE	FSP	70	HB	20	QZ	10						
31.50	43.50	12.00	RMP			GRBK	FM		se	FSP	60	HB	15	OL	20			QZ			
43.50	46.50	3.00	DI			WHG	IN		eq	FSP	60	MF	20	QZ	20						
46.50	69.00	22.50	DI			GRBK	FM		se	FSP	65	HB	20	OL	10			QZ			
69.00	81.00	12.00	RMP			GYGR	CQM		se	FSP	70	HB	20	QZ	10						
81.00	99.00	18.00	RMP			GRBK	FM		se	FSP	65	HB	20	OL	10			QZ			
99.00	118.50	19.50	RMP			GYGR	CQM		se	FSP	70	HB	20	QZ	10						
118.50	141.00	22.50	RMP			GRBK	FM		se	FSP	65	HB	20	OL	10			QZ			
141.00	142.50	1.50	RMP			GYGR	CQM		se	FSP	70	HB	20	QZ	10						
142.50	150.00	7.50	RMP			GRBK	FM		eq	FSP	65	HB	20	OL	10			QZ			

Drill Hole Lithology Summary

Drill Hole	*Easting*	*Northing*	*Collar*	*Total Depth*	*Township*	*Range*	*Section*	*Azimuth*	*Inclin*
HC22-RM022	*474,655.78*	*4,631,816.11*	*5,866.27*	*492.13*	*22N*	*71W*	*36*	*20.00*	*-65.00*

Adjusted Depths (m)

From	**To**	**Thick**	**Unit ID**	**Grn Siz**	**Texture**	**Color**	**Lith Type**	**Lith Mod**	**Phn Txt**	**Phn 1**	**Phn1 %**	**Phn 2**	**Phn2 %**	**Phn 3**	**Phn3 %**	**Gmass Sz**	**GM Txt**	**GMass 1**	**Gmass1 %**	**GMass 2**	**Gmass2 %**
0.00	1.50	1.50	Qal			bntn	CV			qz	30	fsp	40	hb	30			il	cal	cal	1
1.50	12.00	10.50	DI	FG		WHG	FQM		eq	FSP	85	QZ	5	HB	10						
12.00	25.50	13.50	SYB			GYGR	SBM			FSP	60	HB	30	QZ	10			il	cal	cal	1
25.50	27.00	1.50	ERGB			bk	MM			MF	75	BT	5					cal			
27.00	28.50	1.50	SYB			GYGR	SBM			FSP	60	HB	30	QZ	10			il	cal	cal	1
28.50	34.50	6.00	SYB			GYGR	SBM			fsp	60	hb	25	qz	10			ol	cal	cal	1
34.50	36.00	1.50	DI			pk	IN			fsp	40	mfc	30	qz	30						
36.00	39.00	3.00	SYB			gygr	SBM			fsp	63	hb	30	qz	5			ol	cal	cal	1
39.00	57.00	18.00	SYB			gygr	SBM			fsp	80	hb	15	qz	5			il	cal	cal	1
57.00	60.00	3.00	RMP	FG		gy	FQM		eq	fsp	45	mfc	20	qz	35						
60.00	66.00	6.00	SYB			gygr	SBM			fsp	68	hb	25	qz	5			ol	cal	cal	1
66.00	67.50	1.50	DI			pkgy	IN			fsp	35	mfc	30	qz	35						
67.50	69.00	1.50	ERGB			bk	MM			mfc	75	bt	5					cal			
69.00	73.50	4.50	SYB			gygr	SBM			fsp	68	hb	25	qz	5			ol	cal	cal	1
73.50	75.00	1.50	ERGB			bk	MM			mfc	75	bt	5					cal			
75.00	79.50	4.50	SYB			gygr	SBM														1
82.50	115.00	32.50	RMP			GYGR	CQM														
115.00	142.50	27.50	SYB			GYGR	SBM														
142.50	145.50	3.00	RMP			GYGR	CQM														
145.00	150.00	5.00	SYB			GYGR	SBM														

Appendix C – Maiden Drilling Program Assay Data

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM001	*4,635,480.00*	*474,948.00*	*5,792.00*	*352.00*	*HQ*

From Depth	*To Depth*	*Sample No.*							*Light REE*					*Heavy REE*									
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
11.50	17.00	HC0360	3247	2946	301	956	695	1340	182	637	92	153	13	46	6	39	7	18	2	15	2	4
17.00	22.00	HC0361	4395	4040	355	1272	966	1855	251	845	123	177	15	59	7	46	8	20	3	17	3	5
22.00	27.00	HC0362	4161	3829	332	1215	903	1762	236	813	115	166	14	55	7	44	7	19	2	16	2	5
27.00	32.00	HC0364	4443.6	4079.6	364	1316	878.6	1938	257	882	124	184	15	60	7	46	8	21	3	17	3	5
32.00	37.00	HC0365	4002	3665	337	1146	877	1692	226	759	111	173	14	53	7	43	7	19	3	16	2	4
37.00	42.00	HC0367	3029	2730	299	887	639	1248	168	587	88	155	13	44	6	38	7	17	2	15	2	4
42.00	47.00	HC0368	4334	3973	361	1237	950	1839	239	826	119	182	15	58	7	46	8	21	3	18	3	5
47.00	49.10	HC0378	3317	3014	303	958	713	1388	186	633	94	154	13	47	6	39	7	18	2	15	2	4
49.10	51.90	HC0379	3643	3320	323	1059	790	1519	211	698	102	165	14	50	6	42	7	19	2	16	2	5
51.90	57.00	HC0380	3718	3394	324	1080	802	1560	210	718	104	165	14	51	6	42	7	19	2	16	2	4
57.00	58.50	HC0381	3595	3276	319	1041	780	1502	200	694	100	164	13	49	6	41	7	19	2	16	2	4
58.50	59.40	HC0382	3976	3599	377	1146	849	1660	220	756	114	193	15	57	7	49	9	22	3	19	3	6
59.40	62.00	HC0383	3588	3269	319	1044	767	1505	200	696	101	164	13	49	6	41	7	19	2	16	2	4
62.00	67.00	HC0384	3930	3606	324	1137	857	1660	220	761	108	163	14	53	6	42	7	19	2	16	2	5
67.00	72.00	HC0386	3669	3348	321	1062	793	1540	208	705	102	163	14	51	6	41	7	19	2	16	2	4
72.00	77.00	HC0387	3652	3341	311	1055	792	1540	207	701	101	158	14	49	6	40	7	18	2	15	2	4
77.00	82.30	HC0395	3758	3444	314	1085	821	1584	211	724	104	159	14	51	6	40	7	18	2	15	2	5
82.30	82.80	HC0396	5315.15	4761.15	554	1559.4	1098.25	2188.5	338	960.4	176	284	16	87	12	73	13	33	4	28	4	9
82.80	87.00	HC0397	3470	3160	310	1017	741	1448	200	673	98	158	14	48	6	40	7	18	2	15	2	4
87.00	92.00	HC0399	3524	3213	311	1039	755	1465	202	692	99	157	14	49	6	40	7	18	2	16	2	5
92.00	97.00	HC0400	3859	3534	325	1122	845	1615	222	745	107	164	14	52	6	42	7	19	3	16	2	5
97.00	99.60	HC0401	4333	3980	353	1259	940	1834	244	843	119	177	15	57	7	46	8	20	3	18	2	5
99.60	102.00	HC0403	4243	3901	342	1216	926	1810	239	810	116	171	14	56	7	44	8	20	3	17	2	5
102.00	107.00	HC0405	3932	3611	321	1096	893	1669	215	730	104	163	15	51	6	41	7	18	2	16	2	4
107.00	112.00	HC0406	4030	3697	333	1172	873	1701	225	788	110	169	15	53	6	43	7	19	3	16	2	5
112.00	117.00	HC0407	4850.2	4415.2	435	1417.29	1050.5	2012.41	305	899.29	148	220	15	72	9	56	10	25	3	22	3	6
117.00	118.10	HC0408	3811	3485	326	1110	824	1599	212	743	107	165	14	52	6	42	7	19	3	16	2	5
118.10	123.40	HC0409	3375	3093	282	979	736	1420	196	646	95	141	13	46	5	37	6	17	2	14	-2	4
123.40	127.00	HC0410	2951	2674	277	865	631	1219	165	575	84	141	13	42	5	36	6	17	2	14	-2	4

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM001	4,635,480.00	474,948.00	5,792.00	352.00	HQ

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE La	Ce	Pr	Nd	Sm	Heavy REE Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
127.00	132.00	HC0411	3270	2976	294	953	698	1369	184	634	91	149	13	45	6	38	7	17	2	15	2	4
132.00	137.00	HC0413	3285	2991	294	964	708	1363	182	645	93	148	14	46	6	38	7	17	2	15	-2	4
137.00	143.10	HC0414	3487	3175	312	1024	738	1459	195	685	98	158	14	48	6	40	7	19	2	16	2	5
143.10	143.90	HC0415	6001.8	5463.8	538	1808.95	1298.8	2440.05	370	1169.95	185	268	17	90	12	72	12	32	4	27	4	8
143.90	147.00	HC0416	3416	3132	284	1002	735	1438	192	673	94	141	14	46	6	37	6	17	2	14	-2	4
147.00	152.00	HC0417	3538	3222	316	1036	754	1479	201	688	100	160	14	49	6	41	7	19	2	16	2	5
152.00	157.00	HC0426	3583	3277	306	1051	780	1492	203	702	100	153	14	49	6	40	7	18	2	15	2	5
157.00	162.00	HC0427	2872	2606	266	847	607	1191	165	561	82	135	12	41	5	34	6	16	2	14	-2	4
162.00	167.00	HC0428	2973	2699	274	875	634	1232	167	581	85	138	13	42	6	36	6	16	2	14	-2	4
167.00	172.00	HC0429	3304	3007	297	972	713	1366	181	653	94	149	14	46	5	39	7	18	2	15	2	5
172.00	177.00	HC0431	3108	2822	286	916	661	1288	176	608	89	145	13	44	6	37	7	17	2	14	-2	5
177.00	181.20	HC0433	3471	3168	303	1023	728	1463	197	682	98	151	14	48	6	40	7	18	2	15	2	5
181.20	182.30	HC0434	4712.28	4295.28	417	1465	974.1	1920.18	280	981	140	208	15	68	9	55	10	25	3	21	3	7
182.30	187.00	HC0435	3543	3226	317	1046	751	1477	202	696	100	159	14	50	6	42	7	19	2	16	2	5
187.00	191.20	HC0436	3176	2884	292	940	670	1317	179	626	92	147	14	45	5	38	7	17	2	15	2	5
191.20	192.20	HC0438	4656.87	4221.87	435	1352.9	1040.95	1895.02	294	846.9	145	218	16	72	9	58	10	25	3	21	3	7
192.20	197.00	HC0439	3833	3508	325	1130	813	1615	218	756	106	161	14	53	7	43	7	19	3	16	2	5
197.00	202.00	HC0441	3650	3330	320	1074	768	1537	204	718	103	160	14	51	6	43	7	19	2	16	2	5
202.00	207.00	HC0442	4068	3731	337	1196	870	1716	231	802	112	167	15	55	7	44	8	20	3	16	2	6
207.00	212.00	HC0443	2327	2050	277	678	476	938	132	430	74	143	13	39	5	37	6	17	2	14	-2	5
212.00	217.00	HC0444	2126	1867	259	624	431	852	119	395	70	134	12	34	6	34	6	16	2	13	2	5
217.00	222.00	HC0445	1568	1349	219	463	316	603	84	292	54	115	12	27	5	28	5	13	-2	12	-2	4
222.00	227.00	HC0446	1362	1152	210	405	266	513	71	253	49	110	12	25	5	27	5	13	-2	11	-2	4
227.00	232.00	HC0447	1352	1135	217	404	259	505	70	251	50	115	12	25	5	28	5	13	-2	12	-2	4
232.00	237.00	HC0448	1581	1352	229	464	316	607	82	292	55	122	12	27	5	30	5	14	-2	12	-2	5
237.00	242.00	HC0449	1566	1340	226	461	307	606	82	290	55	120	12	27	5	29	5	14	-2	12	-2	5
242.00	247.00	HC0451	1456	1234	222	434	282	551	76	273	52	118	12	26	5	28	5	14	-2	12	-2	5
247.00	252.00	HC0452	1335	1131	204	394	258	509	70	247	47	109	11	24	4	26	5	12	-2	11	-2	4
252.00	257.00	HC0453	1217	1024	193	358	235	459	63	223	44	103	11	22	4	24	4	12	-2	11	-2	4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM001	*4,635,480.00*	*474,948.00*	*5,792.00*	*352.00*	*HQ*

From Depth	*To Depth*	*Sample No.*							*Light REE*					*Heavy REE*									*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*		
257.00	262.00	HC0454	1192	994	198	353	226	444	61	220	43	106	11	22	4	25	5	12	-2	11	-2	4	
262.00	267.00	HC0455	1262	1059	203	373	242	474	65	232	46	108	11	23	4	26	5	13	-2	11	-2	4	
267.00	272.00	HC0456	1356	1143	213	401	262	512	70	250	49	114	12	24	5	27	5	13	-2	11	-2	5	
272.00	277.00	HC0466	1260	1053	207	373	241	469	65	233	45	111	12	23	4	26	5	13	-2	11	-2	5	
277.00	282.00	HC0468	1228	1014	214	369	231	445	63	229	46	116	12	23	4	27	5	13	-2	12	-2	5	
282.00	287.00	HC0470	1241	1046	195	365	241	469	64	228	44	104	12	22	4	25	4	12	-2	10	-2	4	
287.00	292.00	HC0472	1287	1088	199	376	253	488	66	236	45	105	12	23	4	25	5	12	-2	11	-2	5	
292.00	297.00	HC0473	1445	1236	209	411	299	557	74	258	48	111	12	24	5	26	5	13	-2	11	-2	5	
297.00	302.00	HC0474	1312	1100	212	386	252	493	67	241	47	114	12	24	4	27	5	13	-2	11	-2	5	
302.00	307.00	HC0475	1163	960	203	344	221	425	59	212	43	109	11	22	4	26	5	13	-2	11	-2	4	
307.00	312.00	HC0476	1184	968	216	354	216	431	59	217	45	116	12	23	5	28	5	13	-2	12	-2	5	
312.00	317.00	HC0486	1191	979	212	357	222	432	60	220	45	114	12	23	5	27	5	13	-2	11	-2	5	
317.00	320.00	HC0487	1284	1085	199	374	250	490	66	234	45	106	11	23	4	25	5	12	-2	11	-2	4	
320.00	325.60	HC0489	1208	1005	203	357	232	446	61	222	44	109	11	22	4	26	5	13	-2	11	-2	5	
325.60	327.00	HC0490	910	725	185	276	157	319	45	168	36	100	11	19	4	23	4	12	-2	10	-2	4	
327.00	332.00	HC0491	1511	1296	215	439	303	586	79	277	51	115	11	25	5	27	5	13	-2	12	-2	5	
332.00	337.00	HC0492	1512	1301	211	439	307	587	79	277	51	112	11	25	5	27	5	13	-2	11	-2	4	
337.00	342.00	HC0493	1362	1153	209	401	268	516	70	251	48	111	11	24	5	27	5	13	-2	11	-2	4	
342.00	347.00	HC0494	1228	1024	204	363	231	460	63	225	45	109	11	23	4	26	5	13	-2	11	-2	5	
347.00	352.00	HC0495	1642	1401	241	486	320	631	86	306	58	127	12	29	5	31	6	15	2	13	-2	6	

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM002	*4,635,391.00*	*474,923.00*	*5,799.00*	*352.50*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
21.00	22.50	HC0369	2034	1769	265	552	402	855	93	360	59	136	9	42	7	33	6	16	2	13	-2	4
22.50	27.50	HC0370	2491	2164	327	668	492	1054	113	434	71	169	9	51	9	41	7	20	3	16	2	5
27.50	32.50	HC0371	2393	2081	312	644	471	1013	109	419	69	162	9	49	8	39	7	19	2	15	2	4
32.50	37.50	HC0372	2437	2128	309	654	484	1036	111	428	69	159	9	50	8	38	7	19	2	15	2	4
37.50	41.60	HC0375	2106	1837	269	559	435	883	96	364	59	139	9	43	7	33	6	16	2	13	-2	4
41.60	42.50	HC0376	2276	1976	300	625	460	938	105	405	68	152	9	49	9	38	7	18	2	14	2	4
42.50	47.50	HC0377	2258	1959	299	613	461	929	104	400	65	156	9	48	7	37	7	18	2	14	-2	4
47.50	52.70	HC0388	2228	1933	295	606	443	928	103	394	65	153	8	47	7	37	7	18	2	14	2	4
52.70	57.20	HC0389	2623	2284	339	714	540	1081	122	465	76	176	9	54	9	42	8	20	3	16	2	4
57.20	58.80	HC0390	2396	2081	315	658	480	991	111	428	71	163	8	51	8	40	7	19	2	15	2	4
58.80	62.50	HC0391	2452	2143	309	665	494	1030	114	434	71	160	8	51	8	38	7	18	2	15	2	4
62.50	67.50	HC0392	2033	1766	267	549	403	854	93	357	59	139	7	43	7	33	6	16	2	13	-2	4
67.50	72.50	HC0394	2091	1822	269	562	416	884	96	366	60	140	7	43	7	33	6	17	2	13	-2	4
72.50	77.50	HC0418	2060	1804	256	546	401	896	93	355	59	131	7	42	7	32	6	15	2	13	-2	4
77.50	82.50	HC0419	2657	2335	322	707	531	1146	121	461	76	163	8	55	9	40	7	19	3	16	2	5
82.50	86.00	HC0420	2309	2014	295	627	455	977	106	408	68	150	7	49	8	37	7	18	2	15	2	4
86.00	90.50	HC0422	2088	1827	261	566	416	885	96	369	61	132	7	44	7	33	6	16	2	13	-2	4
90.50	94.50	HC0423	2389	2089	300	650	481	1003	111	424	70	153	8	50	8	37	7	18	2	15	2	4
94.50	97.50	HC0424	2563	2249	314	704	515	1078	120	460	76	159	8	54	8	40	7	19	2	15	2	4
97.50	102.50	HC0425	2201	1940	261	602	453	925	102	395	65	131	7	46	7	33	6	15	2	13	-2	4
102.50	107.50	HC0458	1567	1298	269	454	265	621	71	286	55	138	8	41	8	34	6	16	2	14	2	4
107.50	112.50	HC0459	2882	2560	322	782	585	1243	134	514	84	159	9	59	9	41	7	19	2	15	2	4
112.50	114.50	HC0460	2846	2523	323	783	583	1208	132	516	84	157	10	59	10	41	7	19	2	16	2	4
114.50	115.00	HC0461	2981	2705	276	784	625	1337	140	524	79	134	7	53	8	33	6	16	2	15	2	3
115.00	121.40	HC0462	2490	2212	278	674	508	1073	115	444	72	136	9	50	8	35	6	16	2	14	2	4
121.40	121.90	HC0464	2808	2545	263	702	607	1274	126	470	68	131	7	46	7	31	6	16	2	15	2	2
121.90	127.50	HC0465	4103	3748	355	1085	849	1870	198	723	108	167	11	72	12	44	8	20	3	16	2	4
127.50	130.50	HC0477	4289.86	3931.86	358	1228	999	1760.86	231	822	119	164	12	77	12	44	8	20	3	16	2	4
130.50	132.50	HC0479	3550	3239	311	914	733	1640	163	611	92	147	11	61	9	39	7	18	2	15	2	4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM002	*4,635,391.00*	*474,923.00*	*5,799.00*	*352.50*	*HQ*

From Depth	*To Depth*	*Sample No.*	*TREE*	*LREE*	*HREE*	*MREE*	*Light REE* *La*	*Ce*	*Pr*	*Nd*	*Sm*	*Heavy REE* *Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
132.50	137.50	HC0480	3336	3020	316	884	674	1512	155	588	91	150	11	61	10	40	7	18	2	15	2	4
137.50	141.60	HC0481	3154	2874	280	817	648	1452	144	548	82	132	11	55	8	35	6	16	2	13	2	4
141.60	142.50	HC0482	3940	3636	304	1028	829	1826	194	689	98	139	12	64	10	37	7	17	2	14	2	4
142.50	147.50	HC0483	2966	2700	266	771	613	1357	137	516	77	125	11	52	8	33	6	15	-2	13	2	4
147.50	152.50	HC0484	3770	3454	316	974	786	1743	174	654	97	147	11	65	9	40	7	18	2	15	2	5
152.50	157.50	HC0485	3645	3325	320	953	756	1666	168	640	95	149	12	64	10	40	7	18	2	16	2	5
157.50	162.50	HC0496	4068.94	3733.94	335	1148	921	1718.94	213	770	111	150	12	73	12	42	7	19	2	16	2	6
162.50	167.50	HC0497	3809	3507	302	979	790	1786	175	660	96	136	12	64	10	38	7	17	2	14	2	6
167.50	172.50	HC0499	2798	2562	236	722	572	1304	128	486	72	108	12	48	7	29	5	13	-2	12	-2	4
172.50	177.50	HC0501	2521	2290	231	662	511	1153	115	445	66	107	12	45	7	29	5	13	-2	11	-2	4
177.50	182.50	HC0502	2940	2683	257	766	588	1369	135	514	77	119	11	51	8	32	6	15	-2	13	-2	5
182.50	187.50	HC0503	3309	3042	267	860	683	1541	153	581	84	121	12	55	9	33	6	15	-2	13	2	5
187.50	192.50	HC0504	2959	2700	259	769	601	1371	135	516	77	119	12	51	9	32	6	15	-2	13	-2	5
192.50	197.50	HC0505	3170	2903	267	827	646	1472	147	557	81	122	12	54	9	33	6	15	-2	13	2	5
197.50	202.50	HC0506	3189	2924	265	823	646	1496	147	555	80	121	12	54	8	33	6	15	2	13	-2	5
202.50	207.50	HC0507	3078	2819	259	798	628	1433	141	539	78	119	12	52	8	32	6	15	-2	13	-2	5
207.50	212.50	HC0510	3134	2863	271	814	630	1462	143	547	81	125	11	54	9	34	6	15	2	13	2	5
212.50	217.50	HC0511	2591	2361	230	669	523	1205	117	449	67	107	11	45	7	29	5	13	-2	11	-2	4
217.50	222.50	HC0512	2761	2514	247	718	558	1277	126	481	72	115	12	48	8	31	5	14	-2	12	-2	5
222.50	227.50	HC0513	2304	2081	223	608	453	1055	104	407	62	104	11	42	7	28	5	13	-2	11	-2	4
227.50	232.50	HC0514	3256	3001	255	829	652	1561	147	560	81	114	12	54	9	32	6	14	-2	12	-2	5
232.50	237.50	HC0515	3400	3124	276	872	685	1611	154	589	85	125	12	56	10	34	6	16	2	13	2	6
237.50	242.50	HC0516	2765	2524	241	711	543	1309	124	478	70	111	11	47	9	30	5	14	-2	12	-2	5
242.50	247.50	HC0517	2787	2543	244	718	551	1313	126	482	71	112	12	48	9	30	5	14	-2	12	-2	5
247.50	249.50	HC0519	3905	3616	289	991	788	1884	184	666	94	128	12	62	11	36	6	16	2	14	2	6
249.50	252.50	HC0520	4010.48	3693.48	317	1114	879	1752.48	208	749	105	140	12	69	12	40	7	18	2	15	2	6
252.50	257.50	HC0521	3915.09	3609.09	306	1068	846	1744.09	197	720	102	135	12	67	11	38	7	17	2	15	2	6
257.50	262.50	HC0522	3762	3474	288	961	767	1792	171	651	93	129	12	61	10	36	6	16	2	14	2	6
262.50	267.50	HC0523	3589	3290	299	948	730	1659	167	641	93	135	12	62	9	38	7	17	2	15	2	6

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM002	*4,635,391.00*	*474,923.00*	*5,799.00*	*352.50*	*HQ*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										Sc
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
267.50	272.50	HC0524	3241	2964	277	844	648	1515	149	569	83	126	12	56	9	34	6	16	2	14	2	6
272.50	277.50	HC0537	2762	2522	240	713	550	1297	125	480	70	110	12	47	8	30	5	14	-2	12	-2	5
277.50	282.50	HC0539	2718	2468	250	711	554	1243	124	476	71	116	12	48	9	31	6	14	-2	12	-2	5
282.50	287.50	HC0541	2554	2318	236	665	506	1184	116	445	67	110	11	45	8	29	5	14	-2	12	-2	5
287.50	288.90	HC0542	3713	3439	274	940	757	1785	169	637	91	123	12	59	9	34	6	15	2	13	-2	6
288.90	292.50	HC0543	3645	3372	273	927	742	1747	166	628	89	123	12	58	10	34	6	15	-2	13	-2	6
292.50	297.50	HC0544	1847	1628	219	494	344	825	82	324	53	105	11	37	8	27	5	13	-2	11	-2	5
297.50	298.90	HC0545	1657	1446	211	451	294	734	74	294	50	102	10	35	7	26	5	13	-2	11	-2	5
298.90	303.90	HC0547	1739	1541	198	459	331	782	77	302	49	95	10	34	7	24	4	12	-2	10	-2	4
303.90	307.50	HC0548	1965	1741	224	522	367	887	87	344	56	109	11	38	7	28	5	13	-2	11	-2	5
307.50	312.50	HC0556	1839	1619	220	497	343	814	82	326	54	106	11	37	8	27	5	13	-2	11	-2	5
312.50	317.50	HC0558	1557	1361	196	426	276	690	71	278	46	95	10	32	7	24	4	12	-2	10	-2	4
317.50	322.50	HC0559	1274	1081	193	357	207	548	56	229	41	94	10	30	7	24	4	12	-2	10	-2	4
322.50	327.50	HC0560	1815	1598	217	484	339	810	80	317	52	104	11	36	8	27	5	13	-2	11	-2	5
327.50	332.50	HC0561	1401	1204	197	390	236	609	63	252	44	96	11	31	7	24	4	12	-2	10	-2	4
332.50	337.50	HC0562	1540	1340	200	421	270	681	69	274	46	96	11	32	7	25	5	12	-2	10	-2	5
337.50	342.50	HC0563	2015	1789	226	535	377	913	90	352	57	108	11	39	8	28	5	13	-2	12	-2	5
342.50	347.50	HC0564	1470	1290	180	397	259	662	66	260	43	86	10	30	6	22	4	11	-2	9	-2	4
347.50	352.50	HC0565	1406	1207	199	396	236	607	63	256	45	96	11	31	7	25	5	12	-2	10	-2	5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM003	4,635,508.00	474,996.00	5,788.00	352.00	HQ

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
11.00	16.00	HC0626	3976	3642	334	1060	943	1684	191	722	102	157	13	75	6	39	7	17	2	16	2	4
16.00	21.00	HC0627	3684	3361	323	972	888	1544	175	661	93	155	12	70	6	37	6	17	2	16	2	4
21.00	26.00	HC0628	3731	3394	337	993	867	1579	178	673	97	162	13	72	6	39	7	18	2	16	2	4
26.00	31.00	HC0629	3956	3615	341	1045	928	1689	188	709	101	163	12	75	7	40	7	17	2	16	2	4
31.00	33.80	HC0630	4583.46	4201.46	382	1290	1060.05	1903.41	246	871	121	177	13	89	7	45	8	19	3	18	3	5
33.80	36.00	HC0633	4249	3898	351	1122	995	1829	206	761	107	167	13	79	7	41	7	17	2	16	2	4
36.00	41.00	HC0634	3507	3193	314	936	822	1478	168	635	90	150	12	68	6	37	6	16	2	15	2	4
41.00	42.50	HC0635	3162	2868	294	839	727	1342	149	567	83	141	11	63	5	35	6	15	2	14	2	4
42.50	46.00	HC0636	5903.42	5411.42	492	1651.83	1270.15	2557.44	318	1108.83	157	231	13	114	10	58	10	25	3	24	4	7
46.00	51.00	HC0651	4293.41	3904.41	389	1232	964.55	1760.86	232	831	116	186	13	85	8	45	8	20	3	18	3	5
51.00	56.40	HC0652	3113	2810	303	830	709	1311	147	561	82	149	12	61	5	35	6	16	2	15	2	4
56.40	61.00	HC0653	2735	2465	270	710	611	1179	125	481	69	137	11	53	5	30	5	14	-2	13	-2	4
61.00	65.20	HC0654	2497	2214	283	681	570	1000	118	456	70	141	12	54	4	33	6	15	2	14	2	4
66.20	71.00	HC0656	3450	3146	304	886	775	1525	160	601	85	152	12	62	6	34	6	15	-2	14	2	4
71.00	77.00	HC0657	3387	3079	308	885	778	1456	158	601	86	152	12	63	6	34	6	16	2	15	2	4
77.00	79.10	HC0658	3937	3608	329	1010	902	1739	182	689	96	163	11	70	6	37	6	16	2	16	2	4
79.10	86.00	HC0659	3399	3097	302	899	795	1443	162	611	86	147	11	63	5	35	6	16	2	15	2	4
86.00	89.10	HC0660	3185	2897	288	837	738	1360	150	568	81	141	11	60	5	33	6	15	-2	14	2	4
89.10	91.00	HC0661	3381	3094	287	900	812	1420	163	613	86	137	11	62	5	33	6	15	2	14	2	3
91.00	96.00	HC0663	4097	3760	337	1074	957	1774	194	734	101	162	12	74	6	39	7	17	2	16	2	4
96.00	101.00	HC0664	3783	3460	323	1000	863	1640	179	683	95	156	12	69	6	37	6	17	2	16	2	4
101.00	106.00	HC0666	4034	3699	335	1069	958	1718	193	729	101	158	13	74	7	39	7	17	2	16	2	4
106.00	111.00	HC0667	4225.88	3850.88	375	1234	974.1	1693.78	231	836	116	175	13	85	7	44	8	19	3	18	3	5
111.00	116.00	HC0668	3725	3408	317	987	874	1589	178	674	93	152	13	69	5	37	6	16	2	15	2	4
116.00	121.00	HC0669	3703	3386	317	976	850	1602	175	666	93	154	12	68	6	36	6	16	2	15	2	4
121.00	126.00	HC0670	3381	3073	308	871	777	1466	156	590	84	153	11	62	6	35	6	16	2	15	2	4
126.00	131.00	HC0672	3765	3454	311	1003	919	1575	182	683	95	146	12	69	6	37	6	16	2	15	2	4
131.00	136.80	HC0673	3523	3205	318	927	821	1499	166	629	90	156	12	67	6	36	6	16	2	15	2	4
136.80	141.00	HC0674	3229	2926	303	850	743	1373	151	577	82	150	11	61	5	35	6	16	2	15	2	4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM003	*4,635,508.00*	*474,996.00*	*5,788.00*	*352.00*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
141.00	146.00	HC0676	3072	2781	291	816	716	1287	146	552	80	142	12	59	5	33	6	15	2	15	2	4
146.00	151.00	HC0677	3248	2957	291	840	738	1417	151	571	80	145	11	59	5	33	6	15	-2	14	2	4
151.00	156.00	HC0678	3724	3400	324	970	860	1613	174	661	92	160	12	67	6	37	6	16	2	16	2	5
156.00	161.00	HC0679	3658	3344	314	936	819	1630	168	638	89	156	12	65	6	35	6	15	2	15	2	4
161.00	166.00	HC0680	3483	3172	311	892	790	1531	160	605	86	155	11	63	6	35	6	16	2	15	2	4
166.00	171.00	HC0681	3978	3652	326	1016	911	1768	183	695	95	160	12	70	7	36	6	16	2	15	2	5
171.00	176.00	HC0682	3565	3246	319	912	803	1573	163	620	87	160	12	64	6	36	6	16	2	15	2	5
176.00	181.00	HC0683	3376	3050	326	898	767	1429	159	608	87	161	12	65	6	38	7	17	2	16	2	5
181.00	186.00	HC0684	3264	2961	303	857	748	1396	153	581	83	150	12	61	5	35	6	16	2	14	2	4
186.00	187.90	HC0686	2871	2640	231	734	661	1274	134	502	69	113	11	50	3	26	4	11	-2	11	-2	4
187.90	190.00	HC0687	5944.85	5427.85	517	1712.41	1337	2448.44	303	1187.41	152	254	13	112	10	60	10	26	3	25	4	9
190.00	196.00	HC0689	2702	2430	272	697	596	1172	123	470	69	140	11	52	5	30	5	14	-2	13	-2	4
196.00	201.00	HC0690	2491	2238	253	652	548	1070	114	441	65	129	11	49	4	28	5	13	-2	12	-2	4
201.00	206.00	HC0691	2852	2584	268	732	638	1249	130	496	71	137	11	53	5	30	5	13	-2	12	-2	4
206.00	211.00	HC0692	3378	3057	321	890	768	1442	158	603	86	160	12	64	6	37	6	17	2	15	2	5
211.00	216.00	HC0693	2167	1899	268	575	459	900	98	381	61	141	11	47	4	31	5	14	-2	13	-2	4
216.00	221.00	HC0694	1512	1273	239	422	283	598	68	276	48	128	11	38	3	27	5	13	-2	12	-2	4
221.00	223.50	HC0697	1430	1189	241	398	269	553	64	257	46	130	11	37	4	27	5	13	-2	12	-2	4
223.50	225.20	HC0698	3166	2820	346	822	677	1365	143	551	84	182	11	63	6	38	7	18	2	17	2	6
225.20	231.00	HC0699	2260	1994	266	602	497	929	104	402	62	138	12	48	4	30	5	14	-2	13	-2	4
231.00	236.00	HC0700	1445	1219	226	391	269	587	64	255	44	123	11	35	3	25	4	12	-2	11	-2	4
236.00	241.00	HC0701	1899	1641	258	500	381	792	84	330	54	140	11	42	4	28	5	13	-2	13	-2	4
241.00	241.40	HC0702	1431	1204	227	395	269	567	64	259	45	122	11	36	2	25	5	12	-2	12	-2	4
241.40	241.90	HC0703	3637	3243	394	951	794	1548	167	638	96	204	13	73	6	44	8	21	3	19	3	6
241.90	246.00	HC0704	1787	1530	257	487	352	724	81	320	53	137	11	42	4	29	5	14	-2	13	-2	4
246.00	251.00	HC0706	1351	1126	225	373	249	532	60	242	43	122	10	34	3	25	5	12	-2	12	-2	4
251.00	252.50	HC0707	1803	1550	253	489	361	731	82	323	53	135	11	42	3	28	5	14	-2	13	-2	4
252.50	256.00	HC0708	1469	1232	237	405	274	582	66	265	45	128	10	37	3	26	5	13	-2	13	-2	4
256.00	261.00	HC0709	1351	1121	230	367	244	538	59	238	42	127	10	34	3	25	5	12	-2	12	-2	4

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM003	4,635,508.00	474,996.00	5,788.00	352.00	HQ

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
261.00	266.00	HC0710	1248	1037	211	342	230	491	55	222	39	115	10	32	3	23	4	11	-2	11	-2	3
266.00	271.00	HC0711	1244	1032	212	343	229	486	55	223	39	116	10	32	3	23	4	11	-2	11	-2	4
271.00	276.00	HC0712	1580	1356	224	421	306	656	71	278	45	122	10	36	3	24	4	12	-2	11	-2	4
276.00	281.00	HC0713	1396	1173	223	377	261	563	62	245	42	122	10	34	3	25	4	12	-2	11	-2	4
281.00	286.00	HC0716	1370	1148	222	335	218	621	53	217	39	125	11	32	3	23	4	11	-2	11	-2	4
286.00	291.00	HC0717	1567	1327	240	442	298	619	72	288	50	122	11	41	3	29	5	14	-2	13	-2	4
291.00	296.00	HC0718	1691	1442	249	438	299	736	71	287	49	133	11	40	3	28	5	14	-2	13	-2	4
296.00	301.00	HC0719	1488	1264	224	451	328	514	76	297	49	113	11	39	3	26	5	13	-2	12	-2	4
301.00	306.00	HC0720	1534	1310	224	409	295	633	68	269	45	121	11	36	3	24	4	12	-2	11	-2	4
306.00	311.00	HC0722	1617	1384	233	432	315	666	72	284	47	125	11	38	3	26	5	12	-2	11	-2	4
311.00	316.00	HC0723	1552	1322	230	425	304	622	70	279	47	122	11	37	3	26	5	12	-2	12	-2	4
316.00	321.00	HC0724	1730	1491	239	461	339	720	78	304	50	128	11	39	3	26	5	13	-2	12	-2	4
321.00	326.00	HC0726	1177	969	208	322	210	463	51	208	37	114	10	31	3	23	4	11	-2	10	-2	4
326.00	331.00	HC0727	1555	1304	251	421	282	632	68	274	48	139	10	38	4	27	5	13	-2	13	-2	5
331.00	336.00	HC0728	1661	1421	240	442	318	690	74	292	47	130	11	38	3	26	5	13	-2	12	-2	5
336.00	341.00	HC0729	1420	1205	215	377	263	591	62	247	42	118	11	33	3	23	4	11	-2	10	-2	4
341.00	346.00	HC0730	1171	971	200	316	209	470	51	205	36	110	10	30	3	21	4	10	-2	10	-2	4
346.00	352.00	HC0731	1587	1358	229	414	300	671	70	272	45	126	11	36	3	24	4	12	-2	11	-2	4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM004	4,635,485.00	475,043.00	5,786.00	352.00	HQ

From Depth	To Depth	Sample No.					Light REE					Heavy REE										Sc
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
6.00	12.00	HC0525	1997	1726	271	574	382	813	97	372	62	141	9	37	7	36	6	17	2	14	2	4
12.00	17.00	HC0528	1733	1506	227	513	340	689	90	333	54	118	9	31	6	30	5	14	-2	12	-2	3
17.00	22.00	HC0529	1927	1683	244	580	372	772	102	377	60	123	9	33	7	34	6	16	2	13	-2	3
22.00	27.00	HC0530	2294	2019	275	716	448	901	127	470	73	136	10	38	7	39	7	19	2	15	2	4
27.00	32.00	HC0531	2038	1809	229	595	414	837	106	392	60	115	9	33	6	31	6	15	-2	12	-2	3
32.00	37.00	HC0532	2029	1777	252	587	402	828	102	384	61	130	9	35	6	34	6	16	2	13	-2	3
37.00	42.00	HC0533	1773	1536	237	522	334	718	90	339	55	122	9	32	6	32	6	15	-2	13	-2	3
42.00	47.00	HC0534	1948	1698	250	583	378	778	102	379	61	127	10	34	6	35	6	16	2	13	-2	3
47.00	52.00	HC0535	2101	1840	261	649	411	824	113	424	68	130	10	36	6	38	7	17	2	14	-2	3
52.00	57.00	HC0549	2332	2056	276	725	459	918	125	481	73	137	11	39	7	39	7	18	2	14	2	3
57.00	62.00	HC0550	2081	1829	252	650	406	815	115	426	67	125	11	35	6	36	6	17	2	13	-2	3
62.00	67.00	HC0551	2339	2055	284	723	458	921	126	476	74	142	10	40	7	40	7	19	2	15	2	4
67.00	72.00	HC0552	2304	2027	277	705	454	914	126	461	72	139	10	39	7	39	7	18	2	14	2	4
72.00	77.00	HC0553	2269	2000	269	687	453	904	119	455	69	136	10	38	7	37	7	17	2	14	-2	3
77.00	82.00	HC0554	2243	1978	265	693	443	886	123	457	69	132	10	36	7	37	7	18	2	14	2	3
82.00	87.00	HC0555	2522	2222	300	819	482	973	146	538	83	146	10	40	8	44	8	21	3	17	3	4
87.00	92.00	HC0566	2305	2045	260	682	469	935	123	449	69	133	9	37	6	35	6	17	2	14	-2	3
92.00	97.60	HC0567	2405	2128	277	811	455	911	144	537	81	132	10	37	7	42	8	20	3	16	2	3
97.60	98.80	HC0569	2724	2450	274	896	543	1061	159	598	89	128	11	42	8	42	7	18	2	14	2	3
98.80	102.00	HC0571	2583	2306	277	831	508	1016	147	551	84	133	10	40	8	41	7	19	2	15	2	4
102.00	104.00	HC0572	2968	2664	304	928	597	1190	167	619	91	147	11	46	8	43	8	20	3	16	2	4
104.00	107.00	HC0573	3020	2754	266	920	593	1288	164	619	90	122	11	44	8	39	7	17	2	14	2	3
107.00	112.00	HC0575	2827	2557	270	921	560	1124	167	618	88	124	12	42	8	40	7	18	2	15	2	3
112.00	117.00	HC0576	3313	3014	299	1010	685	1370	183	679	97	141	12	50	9	42	7	19	2	15	2	4
117.00	122.00	HC0577	2730	2423	307	844	543	1089	146	559	86	148	11	47	9	44	8	20	2	16	2	4
122.00	127.00	HC0579	3370	2989	381	1084	645	1327	188	718	111	179	12	62	11	56	10	25	3	20	3	4
127.00	132.00	HC0580	3755	3406	349	1200	762	1507	214	805	118	160	12	58	10	53	9	23	3	18	3	4
132.00	137.00	HC0581	2578	2290	288	859	493	990	151	568	88	133	12	43	8	44	8	20	2	16	2	3
137.00	141.70	HC0582	2643	2366	277	849	524	1041	148	569	84	131	12	41	7	41	7	19	2	15	2	3

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM004	4,635,485.00	475,043.00	5,786.00	352.00	HQ

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
141.70	147.00	HC0583	2852	2560	292	911	569	1130	165	607	89	139	12	43	7	43	7	20	3	16	2	4
147.00	152.00	HC0584	2801	2507	294	900	553	1104	161	600	89	139	13	43	7	43	7	20	3	17	2	4
152.00	155.30	HC0585	2881	2595	286	900	577	1166	161	603	88	137	12	43	7	41	7	19	2	16	2	4
155.30	157.00	HC0586	2682	2401	281	802	548	1097	143	533	80	138	11	43	8	38	7	17	2	15	2	4
157.00	162.00	HC0587	2470	2192	278	771	489	978	136	512	77	135	12	41	7	39	7	18	2	15	2	4
162.00	167.00	HC0589	2813	2532	281	849	575	1154	153	567	83	136	12	43	7	39	7	18	2	15	2	4
167.00	172.00	HC0590	2999	2723	276	905	622	1241	165	608	87	132	12	44	7	38	7	17	2	15	2	4
172.00	177.00	HC0591	3573	3277	296	1114	741	1473	201	757	105	136	14	50	8	43	7	19	2	15	2	4
177.00	183.40	HC0592	2736	2473	263	847	557	1113	154	566	83	125	12	41	7	37	6	17	2	14	2	4
183.40	187.00	HC0593	4617.16	4154.16	463	1353.32	993.2	1886.64	272	855.32	147	223	14	75	14	65	11	29	4	24	4	7
187.00	192.00	HC0594	2975	2694	281	973	588	1183	175	654	94	128	13	44	8	42	7	19	2	16	2	4
192.00	197.00	HC0595	3547	3250	297	1131	725	1446	202	771	106	136	12	49	8	44	8	19	2	16	3	4
197.00	202.00	HC0597	3208	2914	294	1082	631	1254	194	732	103	133	12	45	8	45	8	20	3	17	3	4
202.00	207.00	HC0600	2533	2259	274	775	511	1018	137	517	76	135	9	41	7	38	7	18	2	15	2	3
207.00	212.00	HC0601	2705	2402	303	882	523	1049	154	587	89	144	10	44	7	45	8	21	3	18	3	3
212.00	216.40	HC0602	2391	2109	282	768	462	927	137	506	77	138	10	40	7	41	7	19	2	16	2	3
216.40	222.00	HC0603	3247	2936	311	1067	643	1281	192	718	102	145	11	47	9	46	8	21	3	18	3	4
222.00	226.50	HC0604	2914	2607	307	966	562	1132	169	649	95	145	11	45	8	45	8	21	3	18	3	4
226.50	227.00	HC0605	2805	2496	309	927	538	1084	166	615	93	148	11	43	7	46	8	22	3	18	3	4
227.00	232.00	HC0606	2548	2261	287	849	487	975	150	565	84	135	11	40	7	43	8	20	3	17	3	3
232.00	237.00	HC0607	3076	2783	293	1027	599	1209	184	694	97	135	11	44	8	44	8	20	3	17	3	4
237.00	242.00	HC0609	2711	2437	274	910	527	1049	159	613	89	126	12	40	8	41	7	19	2	16	3	4
242.00	247.00	HC0610	2927	2651	276	977	576	1146	175	662	92	127	13	41	7	41	7	19	2	16	3	4
247.00	249.10	HC0611	3322	3016	306	1110	653	1307	198	754	104	140	14	45	8	46	8	21	3	18	3	4
249.10	252.00	HC0612	3454	3143	311	1151	681	1366	207	781	108	142	14	47	8	47	8	21	3	18	3	4
252.00	257.00	HC0613	3308	3008	300	1117	644	1301	201	756	106	134	14	45	8	46	8	21	3	18	3	4
257.00	262.00	HC0614	3491	3193	298	1157	695	1393	206	791	108	135	13	47	8	44	8	20	3	17	3	4
262.00	267.00	HC0615	3976	3631	345	1353	780	1561	241	921	128	154	15	54	9	54	9	24	3	20	3	5
267.00	272.00	HC0616	3170	2887	283	1054	627	1256	189	715	100	128	14	43	7	43	7	19	3	16	3	4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM004	4,635,485.00	475,043.00	5,786.00	352.00	HQ

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
272.00	275.70	HC0617	2950	2644	306	1037	554	1108	180	701	101	139	14	42	7	48	9	22	3	19	3	4
275.70	277.00	HC0619	3778	3444	334	1315	723	1467	237	894	123	150	14	50	9	52	9	24	3	20	3	5
277.00	282.00	HC0620	4426.61	4022.61	404	1362.9	997	1735.71	292	846.9	151	183	13	67	13	60	10	27	4	23	4	7
282.00	284.80	HC0621	4526.51	4137.51	389	1351.49	963	1895.02	298	828.49	153	173	14	63	12	60	10	27	3	23	4	6
284.80	287.00	HC0623	3995	3671	324	1280	807	1640	233	872	119	147	14	54	9	47	8	21	3	18	3	5
287.00	292.00	HC0625	3381	3067	314	1147	656	1320	207	774	110	144	14	46	8	48	8	22	3	18	3	4
292.00	297.00	HC0637	3353	3028	325	1069	668	1347	189	724	100	156	13	48	9	47	8	21	3	17	3	5
297.00	302.00	HC0638	2959	2662	297	973	584	1158	174	653	93	139	13	43	8	45	8	20	3	16	2	4
302.00	307.00	HC0640	3011	2722	289	958	607	1207	167	650	91	138	12	43	8	42	7	19	2	16	2	4
307.00	312.00	HC0641	2763	2485	278	886	545	1102	155	599	84	133	12	41	8	40	7	18	2	15	2	4
312.00	317.00	HC0642	3725	3395	330	1256	734	1465	223	855	118	149	14	51	9	51	9	23	3	18	3	4
317.00	322.00	HC0643	3812	3477	335	1304	742	1493	230	889	123	150	14	52	9	53	9	23	3	19	3	4
322.00	327.00	HC0644	3480	3165	315	1215	662	1347	217	824	115	139	14	48	9	50	9	22	3	18	3	4
327.00	332.00	HC0645	2875	2595	280	996	551	1100	180	668	96	124	14	41	8	44	8	20	2	16	3	4
332.00	337.00	HC0646	3033	2744	289	1086	569	1144	191	735	105	125	15	42	8	47	8	21	3	17	3	4
337.00	342.00	HC0647	2720	2464	256	940	523	1048	164	638	91	112	14	39	7	40	7	18	2	15	2	4
342.00	347.00	HC0648	3923	3563	360	1420	734	1478	255	957	139	154	15	55	9	60	10	27	3	23	4	6
347.00	352.00	HC0650	3532	3215	317	1254	672	1349	223	853	118	139	14	48	9	51	9	22	3	19	3	5

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM005	4,635,513.85	474,907.00	5,799.00	351.00	HQ

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
10.50	16.00	HC0733	3885	3548	337	1005	854	1740	185	656	113	151	14	79	10	41	4	17	-2	16	4	6
16.00	21.00	HC0734	3370	3076	294	873	746	1502	161	569	98	132	13	68	9	36	3	15	-2	14	3	5
21.00	26.00	HC0736	2366	2095	271	628	489	1018	108	405	75	128	13	56	8	32	2	15	-2	13	3	5
26.00	31.00	HC0737	2185	1925	260	581	448	935	99	373	70	122	12	53	8	31	3	14	-2	13	3	5
31.00	36.00	HC0738	2217	1961	256	586	455	958	101	376	71	120	12	52	8	30	3	14	-2	13	3	5
36.00	41.00	HC0739	2210	1958	252	586	457	952	101	377	71	120	12	52	7	30	-2	14	-2	12	3	5
41.00	46.00	HC0740	2779	2509	270	724	595	1230	131	469	84	126	13	59	8	32	-2	14	-2	13	3	5
46.00	51.50	HC0741	1898	1659	239	505	380	809	85	322	63	115	12	47	7	28	-2	13	-2	12	3	5
51.50	55.50	HC0743	1460	1282	178	384	295	629	62	248	48	83	9	36	6	20	-2	10	-2	9	3	4
55.50	61.00	HC0744	1813	1567	246	488	357	757	81	310	62	118	12	48	7	28	3	14	-2	12	3	5
61.00	65.10	HC0745	1810	1551	259	489	353	747	79	310	62	125	12	49	8	30	3	15	-2	13	3	5
65.10	71.00	HC0747	1803	1550	253	485	352	749	78	309	62	122	12	48	7	29	3	15	-2	13	3	5
71.00	76.00	HC0748	1517	1289	228	410	290	622	65	259	53	110	12	42	7	26	2	13	-2	12	3	4
76.00	81.50	HC0749	1938	1682	256	515	388	816	86	328	64	123	12	49	7	30	3	15	-2	13	3	5
81.50	86.00	HC0750	1583	1353	230	424	310	652	69	268	54	112	12	42	7	26	2	13	-2	12	3	4
86.00	87.30	HC0751	1517	1293	224	403	295	626	64	256	52	110	12	40	6	25	2	13	-2	12	3	4
87.30	91.00	HC0753	1553	1324	229	416	301	640	66	264	53	111	13	41	7	26	2	13	-2	12	3	4
91.00	96.00	HC0754	1588	1358	230	426	309	656	68	270	55	112	12	42	7	26	2	13	-2	12	3	4
96.00	102.20	HC0755	1427	1206	221	383	272	582	60	242	50	107	12	40	6	25	2	13	-2	12	3	4
102.20	104.60	HC0756	1301	1110	191	345	253	540	55	217	45	92	11	34	6	22	-2	11	-2	10	3	4
104.60	106.00	HC0757	1208	1000	208	332	221	476	49	209	45	103	11	36	6	23	2	12	-2	11	3	4
106.00	111.00	HC0758	1363	1138	225	372	251	546	57	234	50	111	12	40	6	25	2	13	-2	12	3	5
111.00	116.00	HC0759	1470	1245	225	396	280	601	62	251	51	110	12	40	7	25	2	13	-2	12	3	5
116.00	121.00	HC0761	1256	1037	219	347	225	495	52	218	47	108	12	38	6	24	2	13	-2	12	3	4
121.00	126.00	HC0763	1397	1175	222	379	262	566	58	239	50	110	11	39	7	25	-2	13	-2	12	3	5
126.00	131.00	HC0764	1446	1229	217	382	281	596	61	242	49	106	12	38	6	24	2	13	-2	12	3	4
131.00	136.00	HC0765	1503	1257	246	397	290	604	61	250	52	125	11	41	7	27	-2	15	-2	14	4	6
136.00	141.00	HC0766	1481	1238	243	390	283	599	60	245	51	123	11	40	7	27	3	15	-2	13	3	5
141.00	144.60	HC0767	1354	1107	247	364	245	532	54	227	49	127	11	39	7	27	3	15	-2	14	3	5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM005	*4,635,513.85*	*474,907.00*	*5,799.00*	*351.00*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
144.60	146.00	HC0768	1243	1025	218	328	233	494	50	205	43	112	11	34	6	24	2	13	-2	12	3	4
146.00	151.00	HC0769	1237	1025	212	323	235	496	50	202	42	109	11	32	6	23	2	13	-2	12	3	4
151.00	154.20	HC0770	1327	1078	249	356	238	518	53	221	48	130	11	38	7	27	3	15	-2	14	3	5
154.20	156.00	HC0771	1167	943	224	311	209	453	46	193	42	118	11	33	6	24	-2	14	-2	13	3	4
156.00	161.00	HC0773	1261	1022	239	337	225	492	51	209	45	125	11	36	6	26	3	15	-2	13	3	5
161.00	166.00	HC0775	1188	974	214	306	221	475	46	192	40	113	10	32	5	23	2	13	-2	12	3	4
166.00	171.00	HC0776	1268	1032	236	329	234	501	51	203	43	124	11	34	6	26	3	15	-2	13	3	4
171.00	176.00	HC0777	1280	1039	241	329	236	506	50	204	43	128	11	35	6	26	3	15	-2	13	3	4
176.00	181.00	HC0778	1133	897	236	301	197	431	44	185	40	127	10	34	6	26	-2	15	-2	13	3	4
181.00	186.00	HC0779	1124	868	256	301	185	416	43	183	41	139	10	36	6	28	3	16	-2	14	3	4
186.00	191.00	HC0780	1395	1101	294	368	242	532	54	223	50	157	11	43	8	33	3	18	-2	16	4	5
191.00	196.00	HC0781	1152	883	269	315	185	420	44	190	44	144	11	39	7	30	3	17	-2	14	3	4
196.00	201.00	HC0783	1236	949	287	341	196	452	48	205	48	152	11	44	7	33	3	18	-2	15	3	5
201.00	206.00	HC0784	1115	853	262	310	176	404	42	187	44	140	10	40	7	30	-2	16	-2	14	3	4
206.00	211.00	HC0786	1045	804	241	289	167	381	39	176	41	127	10	36	6	27	3	15	-2	13	3	4
211.00	216.00	HC0787	1133	894	239	305	193	429	43	187	42	127	10	36	6	27	-2	15	-2	13	3	4
216.00	221.00	HC0788	1156	885	271	319	184	419	43	194	45	144	10	40	7	30	3	17	-2	15	4	5
221.00	226.00	HC0789	1265	1002	263	336	220	482	49	205	46	142	10	39	7	29	-2	17	-2	14	3	5
226.00	231.00	HC0790	1165	906	259	314	194	434	44	191	43	138	10	38	7	29	3	16	-2	14	3	4
231.00	236.00	HC0791	1232	972	260	326	214	468	47	199	44	139	10	38	7	29	3	16	-2	14	3	4
236.00	241.00	HC0793	1269	990	279	339	215	474	49	205	47	149	10	42	7	31	3	17	-2	15	4	5
241.00	246.00	HC0794	1291	1011	280	347	217	486	50	210	48	150	9	42	8	31	3	17	-2	15	4	5
246.00	251.00	HC0795	1187	926	261	319	199	444	46	193	44	141	9	40	7	29	-2	16	-2	14	3	4
251.00	256.00	HC0796	1231	963	268	331	210	459	48	200	46	143	9	41	7	30	3	17	-2	14	3	4
256.00	261.00	HC0797	1509	1229	280	384	286	598	60	234	51	149	9	44	7	32	3	17	-2	15	3	4
261.00	266.00	HC0798	1491	1221	270	376	287	596	58	230	50	142	9	44	7	31	3	16	-2	14	3	4
266.00	271.00	HC0799	1538	1265	273	395	291	617	62	243	52	143	9	44	7	31	3	17	-2	15	3	5
271.00	275.10	HC0801	1827	1518	309	483	345	735	76	300	62	158	10	53	9	36	4	18	-2	16	4	5
275.10	276.00	HC0803	2209	1958	251	533	496	966	96	337	63	124	9	47	7	30	3	14	-2	13	3	4

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM005	4,635,513.85	474,907.00	5,799.00	351.00	HQ

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
276.00	281.00	HC0804	1968	1699	269	504	400	834	87	315	63	135	7	52	7	32	3	16	-2	13	3	3
281.00	286.00	HC0805	1685	1482	203	401	373	738	73	250	48	103	5	38	5	25	2	12	-2	10	2	2
286.00	291.00	HC0806	2243	1966	277	565	476	966	101	355	68	138	7	54	7	34	3	16	-2	14	3	4
291.00	297.00	HC0807	1289	1088	201	331	255	531	53	206	43	105	5	36	5	24	-2	12	-2	10	2	3
297.00	301.00	HC0808	2120	1835	285	540	437	899	92	342	65	145	9	51	8	33	3	17	-2	15	3	4
301.00	303.70	HC0809	1748	1475	273	455	340	719	74	284	58	141	8	48	7	32	3	16	-2	14	3	4
303.70	306.00	HC0811	2416	2140	276	599	525	1057	108	379	71	136	9	54	7	34	3	16	-2	13	3	4
306.00	311.00	HC0813	2130	1861	269	537	449	915	94	338	65	135	8	51	8	32	3	15	-2	13	3	4
311.00	313.60	HC0814	2234	1942	292	576	456	952	98	366	70	146	10	55	7	35	3	17	-2	15	3	4
313.60	318.50	HC0815	2681	2385	296	664	590	1175	122	420	78	146	8	59	8	36	4	17	-2	14	3	4
318.50	321.00	HC0816	2023	1718	305	535	394	833	88	335	68	154	9	57	8	36	4	18	-2	15	3	5
321.00	326.00	HC0817	1752	1418	334	473	312	681	71	290	64	174	9	58	9	39	3	20	-2	17	4	5
326.00	331.00	HC0818	1658	1336	322	445	294	644	68	270	60	168	8	55	9	38	4	19	-2	16	4	5
331.00	335.00	HC0819	1985	1648	337	529	368	799	86	327	68	176	8	59	8	40	4	20	-2	17	4	4
335.00	341.00	HC0820	1665	1366	299	422	316	670	71	254	55	162	4	49	7	35	4	18	-2	16	3	3
341.00	346.00	HC0821	1757	1487	270	430	361	735	76	261	54	146	3	46	7	32	3	16	-2	13	3	3
346.00	351.00	HC0823	1406	1144	262	351	268	562	57	211	46	145	3	41	6	31	3	16	-2	13	3	3

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM001	*4,632,770.00*	*475,701.00*	*5,728.00*	*352.00*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
6.00	7.00	HC0001	3134	2769	365	870	648	1308	142	573	98	176	11	74	10	47	8	20	2	15	2	4
7.00	12.00	HC0003	3345	2943	402	935	674	1397	150	619	103	196	11	80	11	52	9	22	3	16	2	5
12.00	17.00	HC0004	3628	3194	434	1016	727	1519	163	670	115	211	11	87	12	56	10	24	3	17	3	5
17.00	22.00	HC0005	3512	3110	402	981	721	1472	160	647	110	192	11	83	11	53	9	22	3	16	2	5
22.00	27.00	HC0006	3211	2820	391	900	648	1334	144	593	101	184	11	81	10	52	9	22	3	16	3	5
27.00	32.00	HC0008	3975	3523	452	1103	811	1679	181	729	123	216	12	95	12	58	10	25	3	18	3	5
32.00	37.00	HC0009	3461	3035	426	973	700	1429	157	640	109	204	11	86	11	56	10	24	3	18	3	5
37.00	42.00	HC0010	3215	2865	350	890	674	1356	148	589	98	163	11	75	9	46	8	20	2	14	2	4
42.00	47.00	HC0011	3116	2727	389	885	627	1277	142	581	100	185	11	79	10	52	9	22	3	16	2	5
47.00	48.30	HC0013	2760	2457	303	722	568	1211	120	478	80	153	8	59	7	37	7	17	2	12	-2	4
48.30	52.00	HC0014	3303	2987	316	894	680	1465	150	593	99	142	10	72	9	43	7	17	2	13	-2	5
52.00	57.00	HC0015	3306	2972	334	905	685	1437	151	599	100	153	10	74	9	46	7	18	2	13	2	4
57.00	62.00	HC0016	3369	3007	362	921	699	1445	153	609	101	169	11	77	10	48	8	20	2	15	2	4
62.00	67.00	HC0017	3408	3029	379	939	701	1448	155	621	104	182	11	78	10	49	8	21	3	15	2	5
67.00	72.00	HC0018	2895	2578	317	795	599	1233	131	527	88	150	11	66	8	41	7	18	2	13	-2	4
72.00	77.00	HC0019	2901	2578	323	800	600	1230	132	528	88	149	11	69	8	44	7	18	2	13	2	4
77.00	82.00	HC0021	3089	2742	347	854	638	1305	141	563	95	162	11	73	9	46	8	20	2	14	2	4
82.00	87.00	HC0023	3551	3162	389	980	733	1510	162	648	109	183	12	83	10	51	9	21	3	15	2	5
87.00	91.40	HC0024	3404	2993	411	944	691	1423	153	620	106	194	12	85	10	55	9	23	3	17	3	5
91.40	91.60	HC0025	3613	3270	343	983	767	1573	168	657	105	158	11	77	9	44	8	19	2	13	2	4
91.60	97.00	HC0026	3470	3085	385	953	716	1477	157	630	105	179	11	82	10	51	9	22	3	16	2	4
97.00	100.70	HC0027	3856	3471	385	1039	802	1690	174	697	108	175	12	87	10	50	8	21	3	17	2	4
100.70	104.30	HC0028	3085	2716	369	862	624	1289	139	567	97	175	11	76	10	49	8	21	2	15	2	4
104.30	107.00	HC0029	2826	2481	345	788	571	1177	127	517	89	160	11	73	9	46	8	20	2	14	2	4
107.00	110.00	HC0030	3263	2901	362	899	677	1382	148	595	99	169	11	78	9	48	8	20	2	15	2	4
110.00	113.30	HC0031	2913	2558	355	811	591	1212	130	533	92	167	11	74	9	47	8	20	2	15	2	4
113.30	115.80	HC0034	1819	1622	197	487	386	779	82	321	54	94	7	40	4	26	4	11	-2	9	-2	2
115.80	117.00	HC0035	2692	2393	299	743	556	1142	121	490	84	136	10	65	7	41	7	17	2	12	2	4
117.00	122.00	HC0036	3017	2673	344	831	620	1277	137	547	92	159	11	73	9	46	8	20	2	14	2	4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM001	*4,632,770.00*	*475,701.00*	*5,728.00*	*352.00*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
122.00	127.00	HC0037	3245	2886	359	892	670	1381	147	590	98	165	11	78	9	48	8	21	2	15	2	4
127.00	132.00	HC0038	3485	3111	374	959	724	1487	159	636	105	173	12	81	10	49	8	21	3	15	2	4
132.00	137.00	HC0039	3440	3061	379	948	714	1460	156	627	104	173	12	82	10	51	9	21	3	16	2	5
137.00	142.00	HC0040	3542	3142	400	979	727	1499	161	647	108	187	12	84	10	53	9	23	3	16	3	5
142.00	147.00	HC0041	3474	3091	383	956	714	1482	159	631	105	176	12	82	10	51	9	22	3	16	2	4
147.00	152.00	HC0043	3111	2782	329	849	650	1334	142	563	93	157	11	68	8	43	7	18	2	13	2	4
152.00	157.00	HC0044	3276	2951	325	894	687	1421	151	595	97	150	11	71	9	42	7	18	2	13	2	4
157.00	162.00	HC0045	3589	3156	433	995	728	1501	161	654	112	205	12	89	11	57	10	25	3	18	3	5
162.00	167.40	HC0046	3099	2753	346	852	639	1317	141	563	93	159	11	75	9	46	8	20	2	14	2	4
167.40	172.00	HC0062	3712	3292	420	1027	761	1571	169	678	113	194	12	90	11	56	10	24	3	17	3	5
172.00	177.00	HC0063	3104	2723	381	866	626	1292	140	568	97	177	11	80	10	51	9	22	3	16	2	4
177.00	179.40	HC0065	2847	2482	365	792	571	1177	126	518	90	172	11	74	9	49	8	21	3	16	2	4
179.40	182.00	HC0066	3845	3415	430	1053	797	1633	174	696	115	202	12	90	11	57	10	24	3	18	3	5
182.00	187.00	HC0068	3064	2751	313	829	646	1325	140	549	91	147	10	67	8	41	7	17	2	13	-2	4
187.00	187.90	HC0069	272	215	57	81	50	95	10	48	12	28	-2	8	-2	10	-2	4	-2	2	-2	-1
187.90	192.00	HC0070	3596	3166	430	993	733	1508	162	652	111	206	11	87	11	57	10	24	3	18	3	5
192.00	197.00	HC0071	2966	2625	341	820	609	1250	134	540	92	160	11	71	9	45	8	19	2	14	2	4
197.00	202.00	HC0072	2897	2617	280	792	615	1254	134	528	86	131	10	61	8	36	6	15	-2	11	-2	3
202.00	207.00	HC0113	3618	3193	425	999	741	1520	163	658	111	200	12	89	11	56	10	24	3	17	3	5
207.00	212.00	HC0114	3550	3142	408	980	724	1502	162	645	109	192	11	86	10	54	9	23	3	17	3	5
212.00	217.00	HC0115	3621	3212	409	999	743	1535	165	659	110	192	11	86	11	54	9	23	3	17	3	5
217.00	221.50	HC0117	3840	3387	453	1073	768	1618	170	712	119	218	11	91	12	60	10	27	3	19	2	5
221.50	222.00	HC0118	882	730	152	241	167	343	37	153	30	83	3	22	3	18	3	9	-2	9	-2	1
222.00	227.00	HC0119	3666	3248	418	1013	752	1548	166	670	112	201	11	85	11	54	9	24	3	17	3	5
227.00	232.00	HC0120	3665	3230	435	1010	746	1542	166	664	112	210	11	87	11	57	10	25	3	18	3	5
232.00	237.00	HC0121	3212	2821	391	893	649	1340	145	586	101	188	11	78	10	51	9	22	3	16	3	5
237.00	241.40	HC0122	3184	2843	341	873	664	1360	145	578	96	159	11	72	9	45	8	19	2	14	2	4
241.40	248.30	HC0123	3191	2816	375	890	650	1335	144	587	100	182	11	75	10	49	8	21	2	15	2	4
248.30	252.00	HC0124	3150	2789	361	863	647	1335	143	576	88	175	11	73	9	47	8	20	2	14	2	4

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM001	*4,632,770.00*	*475,701.00*	*5,728.00*	*352.00*	*HQ*

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE					Heavy REE											Sc
							La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu		
252.00	254.10	HC0125	2929	2575	354	810	595	1226	131	531	92	170	11	71	9	47	8	20	2	14	2		4
254.10	257.00	HC0140	2901	2538	363	805	584	1207	129	527	91	170	12	74	9	49	8	21	3	15	2		4
257.00	262.00	HC0127	2727	2378	349	761	547	1124	121	498	88	170	11	68	9	45	8	20	2	14	2		4
262.00	267.00	HC0128	2946	2585	361	822	592	1227	133	539	94	174	11	73	9	47	8	20	2	15	2		4
267.00	272.00	HC0130	3268	2869	399	912	656	1364	147	599	103	190	12	81	10	53	9	22	3	16	3		5
272.00	277.00	HC0131	3295	2897	398	915	668	1377	149	601	102	188	12	81	10	53	9	23	3	16	3		5
277.00	282.00	HC0132	3089	2730	359	852	632	1303	140	561	94	169	11	75	9	48	8	20	2	15	2		4
282.00	284.10	HC0133	3132	2731	401	867	628	1299	139	567	98	190	12	81	10	53	9	23	3	17	3		5
284.10	286.10	HC0134	2929	2571	358	819	589	1220	131	539	92	171	10	73	9	48	8	20	2	15	2		4
286.10	292.00	HC0135	3457	3060	397	956	705	1461	157	631	106	189	11	82	10	52	9	22	3	16	3		5
292.00	297.00	HC0138	3064	2690	374	853	619	1277	137	561	96	179	11	76	10	49	8	21	3	15	2		4
297.00	300.50	HC0139	3052	2665	387	850	612	1264	136	556	97	184	12	78	10	51	9	22	3	16	2		5
300.50	302.00	HC0176	3375	2991	384	926	694	1431	152	611	103	182	11	79	10	50	9	22	3	16	2		5
302.00	307.00	HC0177	3393	3020	373	929	705	1445	154	614	102	173	12	80	9	50	8	21	3	15	2		4
307.00	312.00	HC0178	2928	2609	319	805	610	1244	133	534	88	149	11	67	8	42	7	18	2	13	2		4
312.00	314.50	HC0179	3095	2692	403	865	616	1274	138	566	98	194	12	79	10	53	9	23	3	17	3		5
314.50	317.00	HC0180	3041	2672	369	843	617	1270	136	555	94	175	11	75	9	49	8	21	3	16	2		4
317.00	322.00	HC0182	3114	2742	372	864	630	1306	141	568	97	178	11	76	9	49	8	21	3	15	2		4
322.00	327.00	HC0183	3429	3018	411	952	693	1438	155	625	107	195	11	85	11	54	9	23	3	17	3		5
327.00	332.00	HC0184	3660	3285	375	978	779	1585	169	651	101	182	11	78	10	47	8	20	2	15	2		3
332.00	337.00	HC0185	2919	2572	347	806	597	1224	131	530	90	162	12	72	9	46	8	20	2	14	2		4
337.00	339.00	HC0186	3067	2720	347	844	631	1299	139	558	93	165	11	72	9	45	8	19	2	14	2		4
339.00	339.50	HC0187	1168	1020	148	303	246	493	49	197	35	76	4	25	4	18	3	9	-2	7	-2		3
339.50	342.00	HC0188	3157	2801	356	867	649	1341	143	572	96	168	11	74	9	47	8	20	2	15	2		4
342.00	347.00	HC0189	2908	2581	327	800	602	1230	131	529	89	155	11	68	8	43	7	18	2	13	2		4
347.00	348.90	HC0192	3278	2897	381	905	670	1382	148	596	101	181	11	78	10	50	9	21	3	16	2		4
348.90	349.50	HC0193	852	730	122	218	176	354	34	139	27	61	4	21	2	16	3	7	-2	6	-2		3
349.50	352.00	HC0194	2800	2467	333	777	568	1175	126	511	87	157	10	68	9	44	8	19	2	14	2		5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM002	*4,632,504.00*	*475,706.00*	*5,744.00*	*351.00*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
16.50	21.00	HC0047	3389	3010	379	987	682	1401	182	645	100	172	12	90	11	49	8	20	2	13	2	4
21.00	26.00	HC0048	4086	3661	425	1188	833	1708	222	781	117	188	12	106	13	55	9	22	3	15	2	4
26.00	31.00	HC0049	4185	3741	444	1230	841	1741	228	808	123	201	12	109	14	57	9	22	3	15	2	4
31.00	34.80	HC0051	4788	4250	538	1478	977	1880	275	972	146	239	13	140	16	69	11	27	3	17	3	3
34.80	37.80	HC0052	2390	2103	287	699	472	978	127	453	73	134	7	67	9	37	6	15	-2	10	-2	3
37.80	41.00	HC0053	4344	3824	520	1288	846	1774	234	839	131	240	12	122	16	68	11	27	3	18	3	4
41.00	46.70	HC0055	3537	3113	424	1034	700	1447	189	672	105	191	11	103	12	56	9	23	3	14	2	4
46.70	51.00	HC0056	5139	4601	538	1480	1091	2117	304	934	155	234	13	142	17	70	11	27	3	18	3	5
51.00	56.00	HC0057	3638	3194	444	1071	713	1480	193	698	110	208	11	102	13	57	9	23	3	16	2	4
56.00	61.00	HC0058	3315	2913	402	979	649	1348	176	640	100	190	11	89	12	51	8	21	3	15	2	4
61.00	66.00	HC0059	3467	3040	427	1019	679	1410	184	662	105	201	11	96	13	55	9	22	3	15	2	4
66.00	71.00	HC0061	4270	3837	433	1259	855	1793	235	828	126	193	12	109	14	56	9	21	3	14	2	4
71.00	76.00	HC0074	3742	3348	394	1091	755	1563	203	717	110	181	12	95	12	49	8	20	2	13	2	4
76.00	81.00	HC0075	4000	3545	455	1179	794	1644	216	771	120	212	12	106	14	58	9	23	3	16	2	4
81.00	86.00	HC0076	3329	2946	383	977	661	1368	178	640	99	180	12	86	12	48	8	19	2	14	2	3
86.00	88.70	HC0077	3633	3254	379	1058	736	1519	198	696	105	176	12	88	12	47	8	19	2	13	2	3
88.70	91.00	HC0078	3739	3285	454	1106	731	1518	200	723	113	220	12	98	14	56	9	23	3	17	2	4
91.00	94.80	HC0079	3579	3175	404	1048	711	1479	194	685	106	189	12	94	12	51	8	20	2	14	2	3
94.80	101.00	HC0080	3836	3444	392	1119	784	1602	209	737	112	182	12	94	12	49	8	19	2	13	-2	3
101.00	103.50	HC0083	4069	3680	389	1186	830	1725	224	784	117	176	12	97	13	48	8	19	2	13	-2	4
103.50	106.00	HC0085	4674	4148	526	1385	924	1925	255	905	139	242	12	126	17	69	11	26	3	17	3	5
106.00	111.20	HC0086	4238	3760	478	1248	839	1749	230	817	125	222	12	113	15	61	10	24	3	16	2	4
111.20	111.70	HC0087	3306	2912	394	973	647	1354	178	634	99	187	11	87	12	50	8	20	2	15	2	3
111.70	116.00	HC0088	4238	3792	446	1238	855	1769	231	814	123	205	12	107	14	56	9	22	3	16	2	4
116.00	121.00	HC0089	4191	3693	498	1237	821	1714	226	806	126	232	12	114	15	64	11	26	3	18	3	4
121.00	124.50	HC0090	4800	4194	606	1494	972	1824	284	960	154	283	13	142	18	78	13	31	4	21	3	5
124.50	129.30	HC0091	3146	2777	369	918	627	1290	167	598	95	172	11	85	11	47	8	19	2	12	2	3
129.30	131.00	HC0094	3730	3323	407	1079	767	1542	199	707	108	181	11	101	12	53	9	21	3	14	2	3
131.00	136.00	HC0095	3589	3184	405	1048	722	1478	192	686	106	186	11	96	12	52	9	21	2	14	2	3

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM002	*4,632,504.00*	*475,706.00*	*5,744.00*	*351.00*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
136.00	141.00	HC0096	3609	3224	385	1059	728	1498	196	696	106	177	11	92	12	49	8	19	2	13	2	3
141.00	146.00	HC0097	4795	4275	520	1404	971	1983	263	918	140	240	13	123	17	66	11	26	3	18	3	5
146.00	151.00	HC0098	3911	3495	416	1144	787	1630	213	751	114	189	12	99	13	53	9	21	3	15	2	4
151.00	156.00	HC0099	4635	4165	470	1362	942	1936	256	896	135	211	13	118	15	60	10	23	3	15	2	4
156.00	161.00	HC0100	4571	4072	499	1355	902	1895	251	887	137	230	13	120	16	64	10	25	3	16	2	4
161.00	166.00	HC0101	3617	3211	406	1068	721	1487	196	698	109	185	12	97	13	52	9	20	2	14	2	4
166.00	171.00	HC0103	4269	3788	481	1267	840	1758	232	829	129	223	13	114	15	62	10	24	3	15	2	4
171.00	176.00	HC0104	4078	3583	495	1223	791	1649	219	796	128	234	12	113	16	64	10	25	3	16	2	5
176.00	181.00	HC0105	3533	3162	371	1039	714	1468	192	683	105	169	12	90	12	47	8	18	2	12	-2	4
181.00	186.00	HC0106	3555	3172	383	1046	715	1472	193	686	106	175	12	91	12	49	8	19	2	13	2	4
186.00	190.10	HC0107	3592	3196	396	1064	717	1480	195	695	109	180	12	96	13	52	8	20	2	12	-2	4
190.10	192.70	HC0108	3309	2953	356	986	657	1368	180	645	103	160	12	89	12	46	7	17	-2	11	-2	4
192.70	196.10	HC0109	3116	2831	285	900	648	1328	170	596	89	126	11	74	10	35	6	13	-2	8	-2	4
196.10	197.00	HC0111	2831	2363	468	802	535	1097	133	508	90	241	10	86	11	60	10	26	3	18	3	17
197.00	201.00	HC0141	3167	2882	285	893	678	1355	171	591	87	127	12	71	9	35	6	13	-2	10	-2	4
201.00	206.00	HC0142	3956	3514	442	1176	783	1626	215	769	121	202	13	107	14	57	9	22	2	14	2	4
206.00	211.00	HC0143	3933	3481	452	1166	775	1612	213	762	119	211	12	105	14	58	10	23	3	14	2	4
211.00	214.40	HC0144	2830	2507	323	833	561	1164	153	543	86	153	9	74	10	41	7	16	-2	11	-2	3
214.40	215.00	HC0145	897	770	127	253	176	359	45	161	29	65	3	24	3	15	3	7	-2	5	-2	2
215.00	221.00	HC0147	2972	2576	396	878	578	1184	154	567	93	183	12	89	12	52	9	21	3	13	2	4
221.00	222.40	HC0148	3811	3318	493	1138	727	1532	203	736	120	228	13	113	15	64	11	26	3	17	3	4
222.40	226.00	HC0149	3465	3033	432	1024	675	1404	184	663	107	199	12	100	13	57	9	22	3	15	2	3
226.00	231.00	HC0151	3733	3284	449	1100	738	1518	200	713	115	209	13	104	14	58	9	22	3	15	2	3
231.00	236.00	HC0152	3064	2695	369	933	592	1231	164	608	100	166	12	89	12	49	8	18	2	12	-2	4
236.00	241.00	HC0153	4610	4193	417	1311	979	1969	254	865	126	185	13	107	13	53	8	20	2	14	2	4
241.00	242.30	HC0154	4312	3833	479	1289	842	1779	235	845	132	218	13	117	15	62	10	23	3	16	2	4
242.30	243.80	HC0155	3074	2735	339	919	604	1266	166	603	96	153	11	83	11	43	7	17	2	11	-2	5
246.00	251.00	HC0157	1557	1229	328	506	237	538	72	320	62	165	10	58	11	41	7	18	2	14	2	14
251.00	256.00	HC0158	1416	1067	349	479	189	455	63	298	62	178	10	60	12	44	8	19	2	14	2	15

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM002	4,632,504.00	475,706.00	5,744.00	351.00	HQ

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
256.00	261.00	HC0159	1109	770	339	397	117	311	45	242	55	176	10	55	12	43	7	19	2	13	2	16
261.00	262.20	HC0160	2172	1884	288	626	419	881	108	409	67	145	10	57	7	35	6	15	-2	11	-2	11
262.20	265.70	HC0162	2256	1898	358	650	415	884	106	421	72	191	9	62	9	42	7	19	2	15	2	16
265.70	266.00	HC0163	1306	1038	268	403	213	464	58	253	50	138	8	46	9	33	6	15	-2	11	-2	12
266.00	271.00	HC0164	1544	1173	371	497	227	507	69	306	64	195	9	61	12	46	8	20	3	15	2	14
271.00	276.00	HC0166	1771	1358	413	568	266	589	79	352	72	215	9	69	14	51	9	23	3	17	3	15
276.00	281.00	HC0167	2205	1699	506	741	310	730	103	463	93	260	10	91	18	64	11	27	3	19	3	16
281.00	286.00	HC0168	2740	2085	655	947	363	884	129	588	121	335	10	122	23	86	15	35	4	22	3	11
286.00	291.50	HC0169	3128	2472	656	1050	463	1068	151	661	129	329	10	132	23	86	14	34	4	21	3	7
291.50	296.00	HC0170	3376	3047	329	993	690	1415	184	657	101	147	12	84	10	41	7	15	-2	11	-2	3
296.00	301.00	HC0173	3135	2805	330	910	642	1305	168	597	93	149	12	81	10	42	7	16	-2	11	-2	3
301.00	303.20	HC0174	3579	3206	373	1053	724	1489	195	692	106	165	13	94	12	48	8	18	2	12	-2	3
303.20	303.70	HC0175	1110	949	161	319	216	438	56	203	36	80	5	31	4	20	3	9	-2	7	-2	1
303.70	304.00	HC0195	3301	2938	363	967	658	1369	179	633	99	169	12	85	11	45	7	18	2	13	-2	3
304.00	306.00	HC0196	3741	3366	375	1091	767	1567	204	720	108	169	12	93	12	47	8	18	2	13	-2	3
306.00	311.00	HC0197	5352	4923	429	1515	1228	2247	314	986	148	188	13	118	15	52	8	19	2	13	-2	4
311.00	316.00	HC0198	3980	3584	396	1149	829	1668	215	757	115	183	12	96	13	49	8	19	2	13	-2	4
316.00	321.00	HC0199	4473	4037	436	1318	907	1881	247	870	132	199	13	108	15	54	9	20	2	14	2	4
321.00	324.40	HC0201	4369	3981	388	1279	894	1868	244	849	126	179	12	96	13	47	7	18	2	13	-2	4
324.40	325.00	HC0202	3245	2807	438	944	635	1295	167	608	102	219	11	88	13	54	9	22	3	17	2	9
325.00	331.00	HC0203	4059	3690	369	1180	838	1729	224	782	117	168	12	92	12	45	7	17	2	13	-2	4
331.00	336.00	HC0204	3760	3411	349	1096	779	1591	206	726	109	158	12	87	12	43	7	16	-2	12	-2	4
336.00	341.00	HC0205	2901	2603	298	843	595	1211	156	555	86	140	12	68	10	36	6	14	-2	10	-2	3
341.00	346.00	HC0206	3811	3436	375	1115	783	1597	208	736	112	173	13	89	13	46	7	17	2	14	-2	4
346.00	351.00	HC0207	3674	3312	362	1078	748	1543	201	712	108	166	12	87	12	45	7	17	2	13	-2	4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM003	*4,632,039.00*	*475,109.00*	*5,819.00*	*351.50*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
31.00	36.50	HC0208	2415	2208	207	730	532	979	126	500	71	90	10	47	5	28	5	11	-2	9	-2	6
36.50	41.50	HC0210	3445	3183	262	1035	771	1422	186	703	101	109	11	62	7	38	6	15	-2	12	-2	8
41.50	46.50	HC0211	3028	2771	257	924	657	1234	164	624	92	109	11	58	7	37	6	15	-2	12	-2	8
46.50	49.10	HC0212	9011.9	8400.9	611	2685.9	1970	3859	543.9	1740	288	240	16	159	20	94	15	34	4	25	4	11
49.10	50.10	HC0214	3603	3341	262	1082	828	1477	189	741	106	107	13	62	7	39	6	15	-2	11	-2	5
50.10	53.60	HC0215	7408	6904	504	2230	1577	3191	447	1449	240	197	15	130	16	78	12	28	3	21	4	10
53.60	56.50	HC0216	3585	3325	260	1071	819	1480	192	729	105	105	12	62	7	38	6	15	-2	12	2	8
56.50	61.50	HC0245	3985	3693	292	1190	904	1650	211	811	117	120	11	69	8	43	7	17	2	13	2	8
61.50	66.50	HC0246	3579	3294	285	1079	800	1464	192	732	106	119	11	66	8	41	7	16	2	13	2	8
66.50	72.50	HC0248	3303	3044	259	1004	735	1350	178	682	99	107	12	60	7	38	6	15	-2	12	-2	7
72.50	73.70	HC0249	976	877	99	282	214	397	50	187	29	44	4	19	2	14	2	6	-2	6	-2	2
73.70	76.50	HC0250	3379	3119	260	1031	749	1385	180	704	101	107	12	58	7	39	6	16	-2	12	2	6
76.50	81.50	HC0251	3905	3584	321	1171	881	1589	203	793	118	136	11	70	9	48	8	19	2	15	3	8
81.50	86.50	HC0252	4514	4185	329	1356	1006	1882	238	925	134	135	13	76	9	50	8	19	2	15	2	7
86.50	91.50	HC0254	3634	3358	276	1085	807	1514	191	738	108	114	13	62	7	41	7	16	2	12	2	6
91.50	96.50	HC0255	3925	3520	405	1231	767	1596	259	746	152	170	13	88	11	63	10	25	3	19	3	8
96.50	102.30	HC0256	3630	3326	304	1103	787	1490	195	741	113	128	13	65	8	46	8	18	2	14	2	6
102.30	106.50	HC0258	1312	1109	203	427	242	474	67	274	52	86	13	40	5	29	5	13	-2	10	-2	16
106.50	111.50	HC0259	1341	1140	201	433	250	490	71	277	52	87	12	39	4	29	5	13	-2	10	-2	14
111.50	116.50	HC0260	3528	3280	248	1057	802	1466	188	722	102	98	14	57	7	38	6	15	-2	11	-2	7
116.50	121.50	HC0261	3461	3212	249	1037	782	1438	188	703	101	100	13	58	7	38	6	14	-2	11	-2	6
121.50	126.50	HC0262	3765	3482	283	1137	839	1557	201	772	113	116	12	63	8	43	7	17	2	13	2	6
126.50	131.50	HC0263	3937	3634	303	1186	870	1633	210	803	118	124	13	67	8	47	8	18	2	14	2	6
131.50	133.40	HC0264	3554	3275	279	1076	795	1454	188	730	108	115	12	61	7	43	7	17	2	13	2	6
133.40	134.00	HC0265	1171	1052	119	339	257	475	60	224	36	54	4	22	2	17	3	8	-2	7	-2	2
134.00	136.50	HC0268	3553	3270	283	1078	793	1449	191	730	107	118	12	61	7	43	7	17	2	14	2	6
136.50	141.50	HC0269	4107	3805	302	1229	938	1692	220	834	121	123	13	68	8	46	8	18	2	14	2	6
141.50	146.50	HC0278	4032	3726	306	1208	910	1662	213	821	120	126	13	69	8	46	8	18	2	14	2	6
146.50	151.50	HC0279	3810	3510	300	1154	847	1563	205	780	115	124	13	66	8	46	7	18	2	14	2	6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM003	*4,632,039.00*	*475,109.00*	*5,819.00*	*351.50*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
151.50	156.50	HC0280	4379	4034	345	1327	977	1792	234	897	134	142	13	76	9	53	9	21	3	16	3	6
156.50	161.50	HC0281	3672	3368	304	1128	809	1486	196	763	114	126	12	66	8	47	8	19	2	14	2	5
161.50	166.50	HC0282	3757	3459	298	1128	836	1549	201	760	113	124	12	65	8	46	7	18	2	14	2	5
166.50	171.50	HC0283	3936	3622	314	1186	870	1623	209	800	120	130	13	68	8	49	8	19	2	15	2	5
171.50	177.30	HC0284	3685	3381	304	1116	805	1515	199	749	113	127	12	66	8	47	8	18	2	14	2	5
177.30	178.50	HC0286	3061	2783	278	926	670	1235	166	619	93	122	10	56	7	41	7	17	2	14	2	4
178.50	181.50	HC0288	3537	3247	290	1075	778	1446	187	729	107	121	12	62	8	44	7	18	2	14	2	5
181.50	186.50	HC0289	4045	3727	318	1215	904	1666	217	818	122	131	13	70	9	49	8	19	2	15	2	5
186.50	191.50	HC0303	3554	3259	295	1068	785	1458	189	719	108	124	13	65	8	44	7	17	2	13	2	5
191.50	196.50	HC0304	3644	3334	310	1094	801	1494	195	732	112	131	13	66	8	47	8	19	2	14	2	5
196.50	201.50	HC0305	3974	3639	335	1204	870	1625	212	810	122	142	13	73	9	51	8	20	2	15	2	5
201.50	205.40	HC0306	3944	3604	340	1202	861	1602	211	807	123	142	13	72	9	52	9	21	3	16	3	5
205.40	211.10	HC0307	3789	3446	343	1151	834	1523	198	772	119	146	12	71	9	53	9	21	3	16	3	5
211.10	216.50	HC0309	3796	3459	337	1150	825	1545	198	772	119	142	13	70	9	52	9	21	3	16	2	5
216.50	221.50	HC0310	3909	3561	348	1199	853	1572	211	799	126	147	13	73	9	54	9	21	3	16	3	5
221.50	226.50	HC0311	3801	3438	363	1170	812	1522	198	782	124	155	13	76	10	56	9	22	3	16	3	5
226.50	231.50	HC0325	3990	3634	356	1192	879	1628	206	798	123	151	13	75	10	55	9	21	3	16	3	5
231.50	235.50	HC0326	3919	3564	355	1200	855	1573	206	807	123	151	13	75	10	54	9	21	3	16	3	5
235.50	241.50	HC0327	3771	3421	350	1153	814	1517	199	771	120	149	13	73	9	54	9	21	3	16	3	5
241.50	243.70	HC0328	3426	3084	342	1045	727	1373	180	694	110	148	13	69	9	52	9	21	3	16	2	4
243.70	246.50	HC0329	3212	2871	341	980	672	1276	169	650	104	154	11	74	9	48	8	19	2	14	2	5
246.50	251.80	HC0331	3280	2958	322	984	713	1315	172	656	102	144	11	72	9	45	7	17	2	13	2	5
251.80	254.10	HC0332	3335	2995	340	1018	711	1323	178	678	105	153	11	76	10	47	8	18	2	13	2	5
254.10	260.00	HC0333	3691	3333	358	1111	798	1485	191	745	114	160	12	79	10	51	8	20	2	14	2	5
260.00	261.00	HC0334	1048	898	150	305	214	400	52	198	34	76	4	27	3	18	3	9	-2	8	-2	2
261.00	266.50	HC0335	3339	2998	341	991	725	1338	173	659	103	156	11	75	9	47	8	18	2	13	2	5
266.50	271.50	HC0336	3100	2763	337	940	655	1223	162	623	100	154	11	74	9	46	8	18	2	13	2	5
271.50	272.90	HC0337	3350	3014	336	1004	726	1339	172	675	102	152	11	76	10	45	7	18	2	13	2	5
272.90	276.50	HC0338	3228	2885	343	970	690	1282	166	645	102	156	11	75	10	47	8	19	2	13	2	4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM003	*4,632,039.00*	*475,109.00*	*5,819.00*	*351.50*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
276.50	281.50	HC0341	2887	2571	316	865	614	1143	149	574	91	147	10	69	9	42	7	17	2	12	-2	4
281.50	286.50	HC0342	2927	2605	322	879	612	1166	150	586	91	149	10	70	9	43	7	17	2	13	2	4
286.50	292.50	HC0343	3129	2780	349	939	671	1226	161	623	99	163	11	75	10	46	8	19	2	13	2	5
292.50	296.50	HC0344	2991	2645	346	901	627	1173	154	595	96	161	11	74	9	47	8	19	2	13	2	5
296.50	301.70	HC0345	3077	2730	347	932	651	1203	161	616	99	162	10	74	9	47	8	19	2	14	2	5
301.70	302.10	HC0346	2462	2179	283	744	516	964	126	496	77	134	9	59	7	38	6	16	-2	12	-2	4
302.10	306.50	HC0347	3034	2688	346	921	629	1194	157	612	96	162	10	74	10	46	8	19	2	13	2	5
306.50	311.50	HC0348	3044	2696	348	919	639	1194	159	607	97	163	11	73	9	47	8	19	2	14	2	5
311.50	316.50	HC0351	3128	2787	341	947	660	1235	162	632	98	158	11	72	9	46	8	19	2	14	2	4
316.50	321.50	HC0352	3289	2933	356	987	692	1312	171	655	103	165	11	75	10	48	8	20	2	15	2	5
321.50	325.80	HC0353	3222	2859	363	964	678	1276	168	635	102	170	11	76	10	49	8	20	2	15	2	5
325.80	328.50	HC0354	3201	2861	340	958	681	1277	168	635	100	157	11	72	9	46	8	19	2	14	2	4
328.50	331.50	HC0355	2946	2612	334	897	616	1154	153	595	94	155	10	69	9	46	8	19	2	14	2	4
331.50	336.50	HC0356	3247	2895	352	963	679	1310	166	639	101	164	11	75	10	47	8	19	2	14	2	4
336.50	341.50	HC0357	2981	2639	342	905	618	1171	156	599	95	160	10	72	9	46	8	19	2	14	2	4
341.50	346.50	HC0358	2995	2672	323	896	639	1189	158	594	92	151	10	70	9	43	7	17	2	13	-2	4
346.50	351.50	HC0359	3028	2696	332	914	645	1191	157	607	96	154	11	71	9	45	7	18	2	13	2	4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM004	*4,631,864.00*	*474,924.00*	*5,859.00*	*194.00*	*HQ*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
6.00	9.00	HC0217	2390	2080	310	619	429	1078	103	397	73	154	8	64	7	39	7	16	2	12	-2	3
9.00	15.00	HC0218	1998	1763	235	501	373	923	87	324	56	119	5	47	5	29	5	13	-2	10	-2	4
15.00	16.60	HC0220	412	333	79	131	89	124	22	82	16	42	-2	13	2	9	-2	5	-2	4	-2	6
16.60	20.00	HC0221	343	256	87	97	46	124	14	58	14	50	-2	12	-2	10	-2	5	-2	5	-2	3
20.00	23.00	HC0222	700	580	120	192	116	289	32	120	23	62	2	20	3	14	3	7	-2	7	-2	4
25.00	27.70	HC0225	1130	854	276	359	134	402	52	221	45	143	5	45	7	34	6	17	2	15	2	6
27.70	31.60	HC0226	417	321	96	127	58	150	19	77	17	48	4	15	2	12	2	6	-2	5	-2	4
31.60	33.00	HC0227	1477	1336	141	377	288	691	69	249	39	66	4	33	3	17	3	7	-2	6	-2	2
33.00	36.00	HC0228	1195	931	264	368	160	444	53	225	49	131	10	48	7	34	6	15	-2	11	-2	7
36.00	40.60	HC0230	992	789	203	283	147	388	42	174	38	104	9	35	5	24	4	11	-2	9	-2	7
40.60	46.00	HC0231	479	387	92	119	81	198	20	73	15	52	3	13	-2	10	-2	5	-2	5	-2	3
46.00	51.00	HC0232	728	584	144	173	127	302	28	105	22	82	3	20	3	15	3	8	-2	8	-2	7
51.00	56.00	HC0234	743	614	129	182	133	316	31	112	22	71	3	19	3	14	3	7	-2	7	-2	9
56.00	61.00	HC0235	726	601	125	173	132	312	29	107	21	70	3	18	3	13	3	7	-2	6	-2	9
61.00	62.60	HC0236	741	591	150	189	121	300	30	115	25	86	3	21	3	16	3	8	-2	8	-2	10
62.60	66.00	HC0237	1095	937	158	329	186	440	61	223	27	88	4	30	3	15	3	7	-2	6	-2	9
66.00	70.50	HC0238	1318	1101	217	315	243	572	53	195	38	122	4	33	5	24	4	12	-2	11	-2	13
70.50	71.50	HC0240	1215	1011	204	291	218	529	49	179	36	116	3	30	5	22	4	12	-2	10	-2	12
71.50	75.00	HC0241	1102	923	179	255	204	487	43	157	32	101	4	26	4	19	4	10	-2	9	-2	10
75.00	81.00	HC0242	449	347	102	126	66	169	18	76	18	52	7	15	3	11	2	5	-2	5	-2	9
81.00	84.50	HC0243	759	624	135	207	123	313	32	129	27	67	8	23	4	15	3	7	-2	6	-2	8
84.50	86.90	HC0244	849	701	148	220	143	358	35	137	28	78	6	24	3	17	3	8	-2	7	-2	6
86.90	91.00	HC0270	1011	783	228	289	144	383	42	175	39	120	8	36	6	27	5	13	-2	11	-2	9
91.00	96.00	HC0271	1625	1311	314	456	246	654	70	284	57	163	10	52	8	37	7	18	2	15	2	11
96.00	101.00	HC0272	1232	978	254	368	173	474	54	230	47	127	13	44	7	30	5	14	-2	12	-2	13
101.00	103.20	HC0275	1238	1002	236	345	192	498	53	215	44	122	11	39	6	27	5	13	-2	11	-2	12
103.20	104.00	HC0276	490	344	146	131	65	166	18	76	19	83	4	18	2	16	3	9	-2	9	-2	2
104.00	106.00	HC0277	1427	1188	239	383	239	599	61	242	47	122	11	41	6	27	5	13	-2	12	-2	12
106.00	111.00	HC0290	1190	943	247	331	173	473	49	204	44	131	10	39	6	28	5	14	-2	12	-2	13

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM004	4,631,864.00	474,924.00	5,859.00	194.00	HQ

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
111.00	114.80	HC0291	1488	1191	297	414	224	595	62	256	54	156	11	48	8	34	6	16	2	14	2	15
114.80	116.70	HC0292	802	565	237	216	101	278	30	125	31	136	5	29	4	26	5	14	2	14	2	5
116.70	121.00	HC0293	1257	952	305	374	163	459	52	226	52	160	10	49	8	36	7	17	2	14	2	15
121.00	126.00	HC0294	4299.09	3803.09	496	1246	887	1744.09	214	821	137	239	12	111	14	60	10	25	3	19	3	8
126.00	131.00	HC0295	1318	992	326	413	156	472	56	250	58	168	11	54	10	39	7	18	2	15	2	19
131.00	136.00	HC0297	1363	1050	313	407	179	510	57	248	56	161	12	51	9	37	7	17	2	15	2	18
136.00	141.00	HC0299	740	560	180	224	94	267	31	136	32	90	12	28	5	20	4	10	-2	9	-2	14
141.00	146.00	HC0300	1666	1377	289	459	265	695	71	287	59	147	12	50	8	34	6	15	2	13	2	17
146.00	147.40	HC0301	971	803	168	253	163	410	40	157	33	88	7	28	3	20	4	9	-2	7	-2	4
147.40	151.00	HC0302	1997	1701	296	545	333	867	87	348	66	147	10	56	9	35	6	16	2	13	2	16
151.00	156.00	HC0313	986	753	233	297	128	362	41	180	42	118	12	38	7	27	5	13	-2	11	-2	15
156.00	161.00	HC0314	1691	1341	350	508	229	656	73	314	69	179	12	61	10	42	8	19	2	15	2	18
161.00	166.00	HC0315	1361	1054	307	417	182	501	59	257	55	156	10	53	9	37	7	17	2	14	2	8
166.00	169.50	HC0317	2506	2092	414	689	403	1061	106	433	89	212	10	77	12	49	9	22	3	17	3	9
169.50	172.40	HC0318	650	532	118	159	114	274	26	98	20	65	3	18	2	13	2	7	-2	6	-2	2
172.40	176.00	HC0319	1537	1158	379	465	192	557	63	280	66	202	8	62	11	45	8	21	3	17	2	11
176.00	181.30	HC0321	2218	1752	466	645	317	860	94	396	85	243	10	80	14	56	10	26	3	21	3	17
181.30	185.40	HC0322	653	521	132	187	100	253	28	115	25	65	8	22	4	15	3	7	-2	6	-2	9
185.40	191.00	HC0323	976	770	206	283	140	377	40	173	40	106	9	35	6	24	4	11	-2	9	-2	10
191.00	194.00	HC0324	1373	1068	305	399	186	527	55	241	59	164	9	50	8	36	6	16	2	13	-2	8

Appendix D – RC Drilling Program Assay Data

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM006	*4,636,138.92*	*474,453.91*	*5,806.15*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-2755	158.32	120.15	38.17	41.44	27.9	55.8	6.21	25.3	4.94	21.1	1.11	4.5	0.68	4.31	0.84	2.66	0.36	2.29	0.32	20
4.92	9.84	HC22-2756	147.44	107.93	39.51	37.62	25.4	49.8	5.51	22.7	4.52	22.7	1.06	4.31	0.7	4.19	0.89	2.48	0.4	2.34	0.44	16.6
9.84	14.76	HC22-2757	132.74	95.4	37.34	33.68	22.9	43.5	4.89	20	4.11	21.9	0.89	3.81	0.59	4.09	0.81	2.35	0.35	2.21	0.34	18.3
14.76	19.69	HC22-2758	129.53	92.82	36.71	31.94	21.3	43.7	4.59	19.5	3.73	21.5	0.9	3.66	0.56	3.56	0.8	2.44	0.35	2.49	0.45	17.6
19.69	24.61	HC22-2759	364.43	285.75	78.68	96.95	64.5	135	14.35	60.2	11.7	42.4	2.22	10.15	1.58	9.12	1.81	5.16	0.73	4.83	0.68	17.2
24.61	29.53	HC22-2760	988.58	771.3	217.28	270.34	156.5	374	39.2	168	33.6	119.5	5.95	28.5	4.34	25.2	5.13	13.95	1.86	11.1	1.75	11.8
29.53	34.45	HC22-2761	957.88	732.3	225.58	275.16	153	335	38.2	171.5	34.6	125	5.79	28.1	4.46	26.4	5.18	14.3	1.92	12.65	1.78	11.8
34.45	39.37	HC22-2762	1009.84	778.4	231.44	279.12	158.5	373	40	171	35.9	127.5	5.98	29.5	4.62	27.6	5.35	14.5	1.94	12.55	1.9	11
39.37	44.29	HC22-2763	1038.44	805	233.44	283.64	162.5	390	40.9	175.5	36.1	130.5	5.82	29.5	4.54	26.6	5.3	15	1.96	12.4	1.82	11.1
44.29	49.21	HC22-2764	977.55	748.1	229.45	273.01	146.5	360	38.1	169	34.5	126	6.21	29.4	4.51	26.9	5.27	15	1.97	12.25	1.94	11.7
49.21	54.13	HC22-2765	971.68	749.1	222.58	274.16	155.5	351	38.5	169.5	34.6	121	5.81	28.6	4.56	27	5.22	14.75	1.9	11.95	1.79	10.7
54.13	59.06	HC22-2766	1614.17	1300.3	313.87	427.76	277	641	64.6	266	51.7	173	5.03	42	6.66	38.8	7.6	20.6	2.61	15.4	2.17	6.8
59.06	63.98	HC22-2767	838.28	606.3	231.98	245.03	118.5	275	32.7	147.5	32.6	128.5	5.5	28.7	4.53	27.7	5.26	15.2	2.09	12.65	1.85	10.6
63.98	68.90	HC22-2768	882.75	658.7	224.05	247.35	138	304	34.8	149.5	32.4	125	5.61	27.4	4.35	26.3	5.21	14.55	1.98	11.9	1.75	10.3
68.90	73.82	HC22-2770	994.86	749	245.86	280.29	153.5	348	41	169	37.5	142	5.54	29	4.59	28.2	5.14	14.95	2.02	12.55	1.87	11.4
73.82	78.74	HC22-2771	929.42	685.5	243.92	268.37	140.5	310	38.2	160.5	36.3	140	5.89	28.5	4.67	28.7	5.28	14.6	2.06	12.2	2.02	11.2
78.74	83.66	HC22-2772	1078.71	844.7	234.01	293.98	181.5	400	45.1	180.5	37.6	133.5	5.96	28.6	4.28	26.5	5.03	14.45	1.98	11.85	1.86	11.2
83.66	88.58	HC22-2773	1003.82	752.5	251.32	284.98	157.5	344	41.3	172.5	37.2	143.5	6.13	30.7	4.88	29.1	5.33	15	2.07	12.65	1.96	12.6
88.58	93.50	HC22-2774	893.02	664.6	228.42	254.09	139.5	302	36.9	152	34.2	130.5	5.65	27.4	4.29	26.7	4.93	13.6	1.82	11.75	1.78	10.9
93.50	98.43	HC22-2775	1035.95	763.7	272.25	294.94	156.5	350	42.2	174.5	40.5	156	6.12	33	5.24	32.5	5.8	16.15	2.24	13.1	2.1	11.7
98.43	103.35	HC22-2776	1048.37	802.6	245.77	290.17	167	379	43.1	175	38.5	139.5	6.15	30.1	4.67	28.9	5.39	14.7	2.05	12.45	1.86	12.8
103.35	108.27	HC22-2777	1088.02	861.1	226.92	300.35	179.5	412	46	186	37.6	127	7.07	29.1	4.45	26.3	4.85	13	1.78	11.55	1.82	12.2
108.27	113.19	HC22-2778	1134.41	873.6	260.81	309.86	179	420	46.7	188.5	39.4	148.5	6.85	32.2	4.96	30.3	5.61	15.35	2.13	12.9	2.01	13.8
113.19	118.11	HC22-2779	1094.56	818.5	276.06	309.88	167.5	379	44.9	186	41.1	156	6.33	33.8	5.48	32.4	6.26	17.45	2.35	13.9	2.09	13.5
118.11	123.03	HC22-2780	1103.53	837.9	265.63	307.57	169	398	44.4	186	40.5	150	6.39	33.2	5.17	31.5	5.79	15.95	2.2	13.4	2.03	12.6
123.03	127.95	HC22-2781	1132.84	874.4	258.44	310	181.5	418	46.1	188	40.8	146.5	6.5	32	4.9	30.2	5.6	15.6	2.09	13.15	1.9	13.8
127.95	132.87	HC22-2782	962.58	719.5	243.08	274.61	149	329	39.5	165	37	138	6.46	29.5	4.71	28.4	5.41	14.7	2.04	12	1.86	12.6
132.87	137.80	HC22-2783	951.79	728.6	223.19	271.64	153.5	334	40.6	165.5	35	125.5	6.55	27.7	4.24	26.3	4.77	13.3	1.84	11.25	1.74	13
137.80	142.72	HC22-2784	1087.99	849.6	238.39	300.67	173.5	408	45	185	38.1	133	7.36	30.3	4.47	28.1	5.18	14.15	1.94	12.05	1.84	14.4

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM006	*4,636,138.92*	*474,453.91*	*5,806.15*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-2785	1016.62	781.1	235.52	296.69	157.5	359	42.7	183.5	38.4	131	7.31	30.1	4.59	27.5	5	13.8	2.04	12.3	1.88	14.9
147.64	152.56	HC22-2786		795		296.34	167.5	361	44.9	183.5	38.1		7.29	28.6	4.44	25.4	5.26	14.2	2.02	12.25	1.93	14.8
152.56	157.48	HC22-2787	1053.84	814.1	239.74	290.2	166.5	389	43.6	177	38	135	6.95	29.6	4.5	27.1	5.2	14.65	2.04	12.7	2	12.4
157.48	162.40	HC22-2788	1091.39	856.3	235.09	304.77	173.5	410	45.6	187	40.2	131.5	7	29.6	4.67	27.3	4.99	14.3	1.92	11.95	1.86	13.8
162.40	167.32	HC22-2789	1105.47	868.9	236.57	307.67	176	418	46.2	189.5	39.2	130	7.52	31.3	4.57	28.2	5.05	13.9	1.96	12.15	1.92	13.8
167.32	172.24	HC22-2791	1196.93	945	251.93	337.25	188	454	50.1	209	43.9	141.5	6.9	33	4.85	29.4	5.32	14.35	2.07	12.65	1.89	14.8
172.24	177.17	HC22-2792	1274.44	1011.8	262.64	351.21	210	487	54.2	215	45.6	147.5	6.22	34.5	5.21	31.2	5.82	15.45	2.07	12.7	1.97	12.3
177.17	182.09	HC22-2793	1075.03	844	231.03	296.76	175.5	403	44.8	183	37.7	130	6.75	29.4	4.36	26.9	5.05	13.25	1.92	11.6	1.8	15
182.09	187.01	HC22-2794	1106.81	873.3	233.51	301.56	183.5	420	45.9	185.5	38.4	131	6.51	29.6	4.46	27.3	4.99	14.15	1.93	11.75	1.82	13.9
187.01	191.93	HC22-2795	1162.83	926.9	235.93	315.14	197	447	48.4	194	40.5	131.5	7.1	30.1	4.44	27.8	5	14	2.02	12.15	1.82	14.2
191.93	196.85	HC22-2796		927.4		323.59	195	440	50.9	203	38.5		7.45	31.1	4.59	26.6	5.48	14.9	2.03	12.35	2.1	15.4
196.85	201.77	HC22-2797	1088	855	233	301.98	175.5	409	45.2	186.5	38.8	129	7.43	30.2	4.48	27	5.03	13.75	1.94	12.35	1.82	14.9
201.77	206.69	HC22-2798	1007.76	773.9	233.86	288.97	161	356	43	176	37.9	129.5	7.18	30	4.47	27.6	5.12	13.75	2.08	12.3	1.86	15.4
206.69	211.61	HC22-2799	1023.05	787.7	235.35	289.04	165.5	365	42.6	177	37.6	132.5	6.72	28.8	4.44	27.4	5.04	13.95	2	12.6	1.9	12.8
211.61	216.54	HC22-2800	1121.5	880.3	241.2	306.39	181.5	425	46.4	187.5	39.9	134.5	7.25	30.8	4.59	28	5.22	14.2	2.06	12.65	1.93	15.5
216.54	221.46	HC22-2801	1031.33	800.8	230.53	290.7	162.5	380	42.7	176.5	39.1	127	7.39	29.7	4.4	28	4.94	13.75	1.91	11.6	1.84	14
221.46	226.38	HC22-2802	1080.64	849.3	231.34	300.23	176	405	45.4	185	37.9	128	7.52	29.7	4.43	27.5	4.85	13.85	1.89	11.7	1.9	15
226.38	231.30	HC22-2803	1086.8	855	231.8	304.9	179	403	46.5	188	38.5	128	7.22	30.2	4.5	27.4	4.94	13.75	1.89	12	1.9	17.8
231.30	236.22	HC22-2804	999.45	779.4	220.05	282.56	161	366	41.7	173.5	37.2	123	7.01	27.9	4.26	25.9	4.65	12.95	1.73	10.95	1.7	14.3
236.22	241.14	HC22-2805	1195.22	950.1	245.12	322.19	208	453	51.8	198	39.3	132.5	7.83	33.7	4.39	28.7	5.05	15.85	1.94	13.15	2.01	10.7
241.14	246.06	HC22-2806	1127.25	885.5	241.75	303.25	194.5	421	48.5	185	36.5	129	8.31	33.5	4.45	28.8	5.07	15.4	1.9	13.2	2.12	11.8
246.06	250.98	HC22-2807	1101.23	873.1	228.13	295.12	192.5	417	48	180	35.6	121	8.03	31.9	4.12	27.4	4.74	14.55	1.74	12.6	2.05	11.4
250.98	255.91	HC22-2808	1108.27	864.8	243.47	302.89	189.5	406	48	183.5	37.8	129.5	8.12	34	4.49	29.1	5.08	15.95	1.92	13.2	2.11	12.1
255.91	260.83	HC22-2810	1037.74	803.9	233.84	286.1	175	375	44.9	174	35	124.5	7.79	32.8	4.2	28	4.86	14.95	1.88	12.7	2.16	12.6
260.83	265.75	HC22-2811	1155.81	912.3	243.51	315.18	202	429	50.2	193	38.1	128.5	7.71	35	4.58	29.3	5.22	15.45	1.96	13.6	2.19	11.9
265.75	270.67	HC22-2812	1050.76	819.6	231.16	285.19	178	388	45	173.5	35.1	126	7.05	30.9	3.99	27.6	4.72	14.7	1.82	12.35	2.03	11.7
270.67	275.59	HC22-2813	1451.08	1123.7	327.38	383.04	251	535	60.9	231	45.8	183	3.34	41.9	5.84	39.5	7.13	22.3	2.9	18.75	2.72	2
275.59	280.51	HC22-2814	1665.6	1298.2	367.4	437.15	296	615	71.3	264	51.9	208	3.83	46.5	6.35	43.6	7.83	25	3.04	20.3	2.95	2.4
280.51	285.43	HC22-2815	1011.67	776.8	234.87	278.21	165.5	365	43.9	168.5	33.9	128	7.38	30.9	4.21	27.7	4.81	15.05	1.86	12.85	2.11	12.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM006	*4,636,138.92*	*474,453.91*	*5,806.15*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-2816	1046.27	801.6	244.67	291.74	170	374	45.7	176	35.9	130.5	7.45	33.7	4.34	29.8	5.19	15.75	1.96	13.75	2.23	13
290.35	295.28	HC22-2817	998.49	769.3	229.19	276.81	163	361	43	168	34.3	122.5	7.32	31.9	4.11	27.4	4.78	14.15	1.78	13.15	2.1	11.4
295.28	300.20	HC22-2818	998.61	779.9	218.71	276.27	166.5	367	43.7	168.5	34.2	117.5	6.95	29.9	3.77	26.1	4.54	13.8	1.74	12.55	1.86	13.2
300.20	305.12	HC22-2819	987.92	771	216.92	269.58	167.5	363	42.2	164.5	33.8	117.5	7.01	29.3	3.78	25.3	4.55	13.65	1.75	12.2	1.88	11.2
305.12	310.04	HC22-2820	1081.2	843.8	237.4	294.94	183.5	397	46.7	181	35.6	128	7.45	32.9	4.24	27.4	4.99	15.05	1.9	13.45	2.02	11.8
310.04	314.96	HC22-2821	1047.1	811.2	235.9	288.11	173.5	382	45.2	175	35.5	126.5	7.61	31.9	4.31	28.1	5	15.3	1.83	13.2	2.15	12.4
314.96	319.88	HC22-2822	1049.83	817.5	232.33	286.28	176	387	45.2	173.5	35.8	123.5	7.47	32.6	4.18	27.6	4.86	15.05	1.83	13.05	2.19	12.8
319.88	324.80	HC22-2823	1035.75	814.8	220.95	279.37	179.5	387	44.9	170.5	32.9	117.5	7.42	30.3	3.97	27.1	4.61	14.05	1.73	12.25	2.02	11.8
324.80	329.72	HC22-2824	949.55	735.2	214.35	261.04	156	347	41	159	32.2	117	6.73	28.7	3.84	25	4.36	13.45	1.64	11.75	1.88	10.7
329.72	334.65	HC22-2825	1023.62	793.9	229.72	281.53	169.5	374	43.9	171.5	35	124	7.22	31.4	4.03	27.1	4.81	14.5	1.8	12.8	2.06	12
334.65	339.57	HC22-2826	1072.99	845.5	227.49	291.04	184.5	401	46.3	177.5	36.2	122	7.48	31.5	4.04	27	4.86	14.2	1.8	12.55	2.06	13
339.57	344.49	HC22-2827	1050.49	820.5	229.99	287.42	174.5	390	45.1	174.5	36.4	124	7.15	31.5	4.12	27.3	4.75	14.55	1.84	12.7	2.08	12.6
344.49	349.41	HC22-2828	988.93	761.4	227.53	274.69	161	356	42.9	167	34.5	123.5	7.16	30.6	3.89	26.4	4.7	14.55	1.82	12.8	2.11	11.1
349.41	354.33	HC22-2830	1118.32	879.7	238.62	304.19	195	413	48.4	186.5	36.8	127.5	7.37	33.3	4.29	28.2	4.88	15.55	1.94	13.35	2.24	13
354.33	359.25	HC22-2831	1088.99	848.4	240.59	296.41	183	401	46.6	180.5	37.3	132.5	6.69	32.2	4.21	27.8	4.95	14.9	1.92	13.3	2.12	10.8
359.25	364.17	HC22-2832	920.99	709.3	211.69	251.95	153	333	39	153	31.3	114	6.58	28.9	3.75	24.9	4.47	13.55	1.72	12	1.82	9.8
364.17	369.09	HC22-2833	974.12	764.9	209.22	263.81	166.5	363	42.3	161	32.1	113	6.69	28.5	3.71	24.7	4.28	13.1	1.6	11.75	1.89	11.6
369.09	374.02	HC22-2834	1066.17	833	233.17	291.55	181	392	46.2	178	35.8	126	7.39	31.9	4.15	27.4	4.86	14.7	1.84	12.9	2.03	12.2
374.02	378.94	HC22-2835	1042.22	829.3	212.92	282.71	180.5	395	45.6	174	34.2	114.5	7.2	29	3.81	25.1	4.42	13.55	1.69	11.65	2	11
378.94	383.86	HC22-2836	770.38	588.6	181.78	210.02	125.5	277	32.5	127.5	26.1	99.1	6.36	23.8	3.22	20.7	3.71	11.7	1.46	10.15	1.58	9.4
383.86	388.78	HC22-2837	954.59	739.9	214.69	263.41	158	348	42	160	31.9	114.5	7.05	29.4	3.81	25.7	4.46	13.95	1.7	12.25	1.87	11.4
388.78	393.70	HC22-2838	1850.24	1514.9	335.34	498.63	354	708	81.9	311	60	183	8.34	48.7	6.23	39.5	6.99	20.3	2.54	17.1	2.64	12.3
393.70	398.62	HC22-2839	1466.02	1198.7	267.32	394.02	273	568	66.1	245	46.6	144	7.15	39.3	4.92	31.4	5.55	16.6	2.07	14.1	2.23	15.4
398.62	403.54	HC22-2840	1653.11	1328.4	324.71	449.7	298	625	72.3	278	55.1	176	8.99	46.4	6	38.3	6.71	20.2	2.55	16.85	2.71	21.5
403.54	408.46	HC22-2841	1632.09	1329.1	302.99	467.98	277	625	72.8	297	57.3	166	9.07	41.9	6.08	34.8	6.44	17.75	2.46	16	2.49	31.4
408.46	413.39	HC22-2842	1552.91	1255.9	297.01	445.04	257	594	68.1	282	54.8	160.5	9.12	42.1	6.14	34	6.32	17.8	2.63	16	2.4	31.9
413.39	418.31	HC22-2843	1578.4	1276	302.4	453.32	260	603	71.1	286	55.9	166	9.35	42.4	6.02	34.3	6.48	17.3	2.57	15.5	2.48	35.1
418.31	423.23	HC22-2844	1449.54	1171.2	278.34	416.21	238	554	64.9	262	52.3	152	8.87	39	5.61	31.4	5.73	16.25	2.33	14.85	2.3	29.1
423.23	428.15	HC22-2845	1547.86	1254.3	293.56	446.28	257	590	69.6	282	55.7	160.5	8.77	41.7	6.08	32.9	6.27	17	2.46	15.55	2.33	31.4

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM006	4,636,138.92	474,453.91	5,806.15	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										Sc
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
428.15	433.07	HC22-2846	1545.87	1244.8	301.07	444.17	252	589	68.6	280	55.2	163	9.29	43.2	6.27	34.1	6.36	18	2.53	15.9	2.42	34.9
433.07	437.99	HC22-2847	1861.31	1552.6	308.71	530.7	329	737	85.9	337	63.7	165	8.29	47.6	6.8	37.3	6.67	17.5	2.41	14.8	2.34	22.6
437.99	442.91	HC22-2848	2134.12	1803.8	330.32	596.93	388	867	97.1	381	70.7	175	7.77	53.1	7.63	40.5	7.41	18.5	2.49	15.5	2.42	15.4
442.91	447.83	HC22-2849	832.47	643.8	188.67	249.16	131	289	37.2	154.5	32.1	103.5	6.1	25.1	3.86	21.5	4.07	11.4	1.6	10	1.54	14.4
447.83	452.76	HC22-2851	559.01	419.9	139.11	168.7	83	186.5	24.6	104	21.8	75	5.63	18.7	2.85	15.45	2.98	8.48	1.24	7.61	1.17	11.8
452.76	457.68	HC22-2852	725.74	546.4	179.34	218.16	108	243	31.5	135	28.9	101	5.62	22.7	3.46	19.3	3.83	10.9	1.56	9.41	1.56	13.6
457.68	462.60	HC22-2853	727.73	563.7	164.03	217.42	114.5	253	32.5	137	26.7	90.8	5.8	21.8	3.27	17.95	3.5	9.42	1.41	8.71	1.37	13.4
462.60	467.52	HC22-2854	762.15	577.8	184.35	228.29	115.5	258	33.5	141	29.8	101.5	6.26	24.1	3.59	20.4	3.96	10.8	1.58	10.55	1.61	14
467.52	472.44	HC22-2855	383.89	281.2	102.69	116.25	54.5	124	16.2	70.7	15.8	56.6	3.59	12.75	2.05	11.5	2.19	6.15	0.92	6.04	0.9	11
472.44	477.36	HC22-2856	848.77	661.7	187.07	249.88	138	298	37.6	156.5	31.6	102.5	6.97	24.9	3.78	20.4	3.91	11.15	1.58	10.25	1.63	15.8
477.36	482.28	HC22-2857	806.87	623.1	183.77	240.32	127	280	36.2	148.5	31.4	100	6.51	24.7	3.62	20.6	4.02	10.9	1.58	10.3	1.54	13.6
482.28	487.20	HC22-2858	800.85	618.5	182.35	238.33	126	278	35.7	148	30.8	99.5	6.53	24.7	3.63	20.2	3.86	10.85	1.64	9.84	1.6	15.6
487.20	492.13	HC22-2859	968.48	765.8	202.68	285.09	161	347	44.2	177.5	36.1	109	7.61	27.8	4.19	23.1	4.36	11.8	1.79	11.15	1.88	17.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM007	*4,635,641.71*	*474,336.28*	*5,829.02*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-2860	2251.57	2003	248.57	621.35	471	947	105.5	411	68.5	125.5	6.67	46	5.95	30.4	5.16	13.6	1.83	11.65	1.81	12
4.92	9.84	HC22-2861	1978.26	1761.8	216.46	543.58	397	853	93.5	359	59.3	109	6.3	39.9	5.18	26.6	4.62	11.6	1.64	10.05	1.57	10.8
9.84	14.76	HC22-2862	2219.9	1977.8	242.1	614.07	464	934	103.5	409	67.3	123	6.64	44.8	5.67	28.6	5.09	13.25	1.89	11.35	1.81	11.9
14.76	19.69	HC22-2863	2537.61	2261.8	275.81	712.39	524	1065	121.5	473	78.3	139	7.17	52.6	6.49	33.1	5.72	14.55	2	13.1	2.08	11.1
19.69	24.61	HC22-2864	4406.91	4061	345.91	1211.1	965	1935	216	825	120	168	8.76	73.5	8.6	41.5	7.29	18.5	2.54	14.9	2.32	10.8
24.61	29.53	HC22-2865	4986.01	4621	365.01	1389.27	1095	2190	249	951	136	173.5	9.61	79.8	9.27	44	7.5	19.2	2.63	16.85	2.65	13.7
29.53	34.45	HC22-2866	3460.24	3110.2	350.04	947.16	741	1470	166	635	98.2	183	7.38	62.9	8.06	39.9	7.33	19.45	2.76	16.65	2.61	11.7
34.45	39.37	HC22-2867	5594.29	5193.5	400.79	1567.1	1235	2450	279	1075	154.5	190	11.05	89.7	10.3	48.3	8.19	20.4	2.79	17.25	2.81	14
39.37	44.29	HC22-2868	3202.54	2870.1	332.44	913.76	659	1345	152	615	99.1	164	10.85	65.5	7.96	39.7	7.05	17.45	2.39	15.15	2.39	12.2
44.29	49.21	HC22-2870	2072.73	1822.3	250.43	597.44	393	868	99.3	396	66	125	9.71	45	5.84	30.3	5.22	13.6	1.81	12	1.95	12.8
49.21	54.13	HC22-2871	2178.79	1873.4	305.39	617.2	405	895	101	402	70.4	160	7.13	52.4	7.1	36.7	6.71	16.95	2.27	13.9	2.23	12.4
54.13	59.06	HC22-2872	2075.46	1753.6	321.86	592.71	380	828	95.4	380	70.2	170.5	6.52	53.1	7.41	39.7	7.04	18.15	2.44	14.7	2.3	13.2
59.06	63.98	HC22-2873	1836.87	1527	309.87	532.24	320	719	83.4	339	65.6	167	6.19	49.4	6.94	37.3	6.68	17.6	2.34	14.25	2.17	13.4
63.98	68.90	HC22-2874	1556.08	1298	258.08	441.81	272	620	70.7	283	52.3	138.5	5.92	39.9	5.61	30.2	5.74	15.05	2.07	13.1	1.99	11.1
68.90	73.82	HC22-2875	1541.34	1288.5	252.84	434.07	271	618	69.6	278	51.9	137	5.73	39.1	5.37	29.2	5.43	14.8	2.1	12.2	1.91	12.2
73.82	78.74	HC22-2876	1551.23	1296.6	254.63	442.32	273	616	71.5	284	52.1	139.5	5.71	38.5	5.52	29.2	5.52	14.35	2.09	12.35	1.89	11.7
78.74	83.66	HC22-2877	1536.59	1267.5	269.09	442	287	577	72.7	281	49.8	142	6.4	40.5	5.9	32.6	6.32	16.8	2.26	14.15	2.16	7.7
83.66	88.58	HC22-2878	1534.41	1274.6	259.81	442.36	285	584	73.7	283	48.9	138.5	6.07	38.7	5.56	31.2	6.08	15.9	2.17	13.55	2.08	7.2
88.58	93.50	HC22-2879	1470.25	1213.2	257.05	425.76	272	552	71.2	270	48	138.5	5.98	37.3	5.46	31.1	5.89	15.4	2.09	13.35	1.98	6.8
93.50	98.43	HC22-2880	1329.89	1071.4	258.49	389.31	233	486	62.6	245	44.8	138.5	6.43	37.6	5.51	31.4	5.99	15.5	2.18	13.4	1.98	7.1
98.43	103.35	HC22-2881	1436.15	1174.5	261.65	416.48	266	529	68.5	265	46	141	6.11	38.4	5.58	31.4	6	15.55	2.16	13.35	2.1	7.1
103.35	108.27	HC22-2882	1481.71	1224.5	257.21	426.02	277	559	70.6	271	46.9	135.5	6.24	39.1	5.62	31.9	6.01	15.55	2.1	13.15	2.04	7.4
108.27	113.19	HC22-2883	1784.07	1480	304.07	518.74	333	672	86	331	58	161.5	6.85	47.1	6.74	37	7.12	18.25	2.33	14.95	2.23	7.9
113.19	118.11	HC22-2884	1921.05	1648.6	272.45	569.86	375	744	95.6	372	62	135	10.5	47.8	6.26	34	6.22	15.6	2.05	12.9	2.12	7.1
118.11	123.03	HC22-2885	1758.87	1499.9	258.97	531.77	338	669	88.4	346	58.5	127	10.6	45.3	6.07	32.8	5.84	14.7	1.99	12.7	1.97	6.5
123.03	127.95	HC22-2886	2111.72	1855.8	255.92	615.01	428	851	107	406	63.8	125.5	8.59	46.5	6.11	32.1	5.8	14.6	1.94	12.8	1.98	7.4
127.95	132.87	HC22-2887	2172.27	1906.1	266.17	633.85	448	864	110	419	65.1	130.5	9.01	48.6	6.25	33.5	6.14	15.3	1.98	12.85	2.04	8.1
132.87	137.80	HC22-2888	1654.28	1411.1	243.18	493.63	317	636	82.9	321	54.2	121.5	8.5	41.8	5.63	29.9	5.64	13.95	1.94	12.3	2.02	8.2
137.80	142.72	HC22-2890	2549.67	2268.6	281.07	762.45	513	1035	133.5	510	77.1	133.5	10.85	54	6.75	35.1	6.34	15.85	2.13	14.25	2.3	9.1

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM007	*4,635,641.71*	*474,336.28*	*5,829.02*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-2891	1875.24	1638.3	236.94	556.05	373	744	95.6	368	57.7	116	10.35	41.2	5.45	29.3	5.32	13.6	1.84	12	1.88	6.2
147.64	152.56	HC22-2892	2358.72	2106.1	252.62	679.54	502	962	121.5	453	67.6	125	7.96	47	6.14	31.3	5.65	13.8	1.9	11.95	1.92	6.7
152.56	157.48	HC22-2893	1317.13	1080.3	236.83	411.73	222	481	64.8	264	48.5	119	9.3	39.1	5.43	29	5.49	13.65	1.92	12.05	1.89	8.3
157.48	162.40	HC22-2894	1309.33	1081.8	227.53	404.63	228	482	64.3	260	47.5	114	9.15	37.9	5.13	27.7	5.2	13.35	1.78	11.5	1.82	8
162.40	167.32	HC22-2895	1984.73	1716.1	268.63	571.33	400	785	98.7	372	60.4	135	7.61	45.9	6.23	34	6.31	15.55	2.16	13.65	2.22	8.2
167.32	172.24	HC22-2896	1683.26	1445.9	237.36	498.34	328	654	84.3	326	53.6	119	8.35	39.9	5.34	29.1	5.43	14.15	1.87	12.25	1.97	7.8
172.24	177.17	HC22-2897	1386.35	1147.1	239.25	416.38	251	514	67.4	267	47.7	123	7.66	37.1	5.28	29	5.44	14.45	2	13.2	2.12	8.9
177.17	182.09	HC22-2898	3441.43	3127.5	313.93	1007.28	732	1435	182	683	95.5	148.5	10	63.9	7.78	39	7.06	17.35	2.4	15.45	2.49	9.9
182.09	187.01	HC22-2899	1546.08	1306.5	239.58	464.53	293	583	77.2	303	50.3	120.5	10.4	38.4	5.33	28.7	5.37	13.95	1.95	12.85	2.13	8.5
187.01	191.93	HC22-2900	1633.65	1399.9	233.75	486.54	311	636	81.6	319	52.3	116.5	10.75	38.5	5.14	28.5	5.25	13.35	1.85	11.95	1.96	8.3
191.93	196.85	HC22-2901	1711.15	1473.5	237.65	505.61	338	664	85.7	333	52.8	116	10.8	41.2	5.41	28.7	5.36	14.05	1.92	12.2	2.01	8.2
196.85	201.77	HC22-2902	2354.04	2105.2	248.84	646.19	510	984	110.5	435	65.7	126.5	8.14	44	5.79	29.2	5.58	13.95	1.85	11.85	1.98	9.2
201.77	206.69	HC22-2903	1065.51	865.8	199.71	319.81	183	391	47.9	206	37.9	107	6.32	28.9	4.21	23.8	4.36	11.45	1.61	10.35	1.71	8.2
206.69	211.61	HC22-2904	916.38	737.8	178.58	276.49	155.5	330	41.5	177.5	33.3	93.6	7.82	26.5	3.79	20.4	3.93	10.3	1.45	9.25	1.54	10
211.61	216.54	HC22-2905	955.4	772.7	182.7	287.66	163	346	43.2	186	34.5	95.3	9.93	26.7	3.76	20.2	3.96	10.1	1.49	9.52	1.74	9.3
216.54	221.46	HC22-2906	857.98	692.5	165.48	259.59	145.5	309	38.8	167.5	31.7	84.9	10.3	24.2	3.34	18.25	3.57	9.45	1.37	8.65	1.45	9.6
221.46	226.38	HC22-2907	1280.21	1067.7	212.51	379.69	226	491	59.1	248	43.6	109	10.25	32.6	4.49	24.5	4.66	11.9	1.75	11.45	1.91	13.8
226.38	231.30	HC22-2908	2596.44	2325.4	271.04	740.44	554	1070	124.5	501	75.9	133.5	10.5	50	6.54	32.5	5.98	14.9	1.97	12.95	2.2	10.8
231.30	236.22	HC22-2909	1227.71	1012	215.71	365.69	214	462	56.3	238	41.7	111.5	9.27	33.2	4.69	25	4.59	12.45	1.78	11.25	1.98	12.2
236.22	241.14	HC22-2911	1323.04	1081.2	241.84	394.72	226	494	63.4	253	44.8	123	10.4	37.7	5.22	28.3	5.43	14.7	2.06	12.8	2.23	21.5
241.14	246.06	HC22-2912	1416.66	1168.8	247.86	417.62	245	541	66.9	269	46.9	125	10.7	39.4	5.52	29.3	5.7	14.65	2	13.35	2.24	21.6
246.06	250.98	HC22-2913	1389.17	1134.2	254.97	413	236	521	65.9	263	48.3	130	10.2	40.3	5.5	30.3	5.7	15.3	2.03	13.3	2.34	21.8
250.98	255.91	HC22-2914	1302.96	1072.9	230.06	386.34	225	494	61.6	248	44.3	117	9.17	36.4	5.14	27.3	5.13	13.55	1.93	12.4	2.04	19.8
255.91	260.83	HC22-2915	1320.46	1073.2	247.26	397.45	221	489	62.9	253	47.3	126.5	10.65	38.7	5.55	28.7	5.53	14.65	1.94	12.85	2.19	22
260.83	265.75	HC22-2916	930.54	702.4	228.14	290.33	136	307	42.5	181.5	35.4	119	9.82	33.1	4.83	26.1	5.09	13.6	1.89	12.6	2.11	21.3
265.75	270.67	HC22-2917	808.5	617.3	191.2	247.87	122	273	37.2	155	30.1	101	7.47	27.2	3.87	21.7	4.26	11.55	1.63	10.75	1.77	15
270.67	275.59	HC22-2918	2178.45	1924.5	253.95	609.93	439	911	108	406	60.5	128.5	7.95	45.3	5.73	29.7	5.45	14.2	1.95	13	2.17	13.9
275.59	280.51	HC22-2919	1753.39	1467.4	285.99	516.97	315	676	84.6	334	57.8	145.5	10.2	46.1	6.37	34.2	6.4	16.8	2.27	15.4	2.75	23.4
280.51	285.43	HC22-2920	1359.89	1119.9	239.99	395.65	240	517	64	255	43.9	127.5	6.98	35.9	5.05	27.7	5.36	14.25	2.04	13	2.21	17

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM007	*4,635,641.71*	*474,336.28*	*5,829.02*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-2921	1095.56	885.5	210.06	328.92	180.5	404	51.7	212	37.3	110	7.7	31.2	4.22	23.7	4.49	12.65	1.78	12.25	2.07	17.7
290.35	295.28	HC22-2922	1359.83	1115.6	244.23	414.68	228	507	65	269	46.6	123	9.12	39.8	5.28	28.8	5.3	14.85	2.1	13.55	2.43	24.1
295.28	300.20	HC22-2923	1293.47	1066.1	227.37	388.07	219	491	60.7	250	45.4	117	8.75	35.5	5.07	26.9	4.95	13.35	1.79	12	2.06	20.7
300.20	305.12	HC22-2924	1192.01	961.2	230.81	364.78	193	436	56.4	232	43.8	116.5	9.27	36.6	5.08	27.5	5.06	14	1.89	12.7	2.21	20.3
305.12	310.04	HC22-2925	1234.29	991.1	243.19	381.01	196	448	58.1	243	46	124	9.61	38.5	5.41	28.5	5.37	14.3	2.01	13.15	2.34	22.9
310.04	314.96	HC22-2926	1692.35	1414.4	277.95	493.89	304	656	80.8	318	55.6	142.5	9.92	44.8	6.09	33.4	6.2	16.6	2.21	14	2.23	20.4
314.96	319.88	HC22-2927	1318.69	1078.5	240.19	385.9	228	498	62.3	245	45.2	124.5	8.51	37.2	5.2	28.2	5.29	14.3	2	12.8	2.19	19.4
319.88	324.80	HC22-2928	1100.33	876.3	224.03	331.15	180	395	51.3	211	39	119	7.79	32.3	4.65	25.2	4.95	13.65	1.91	12.45	2.13	16.6
324.80	329.72	HC22-2930	1120.56	890.6	229.96	347.04	178	398	52.6	219	43	116.5	9.7	35.6	5.04	27.4	5.08	13.9	1.99	12.6	2.15	23.3
329.72	334.65	HC22-2931	1179.97	952.4	227.57	357.68	192	434	55.7	229	41.7	116.5	9.47	35	4.88	26.4	5.21	13.55	1.87	12.55	2.14	20.2
334.65	339.57	HC22-2932	1184.43	958.6	225.83	361.28	193.5	435	55.8	231	43.3	114.5	9.77	35.6	4.98	26.2	4.97	13.2	1.92	12.45	2.24	21.2
339.57	344.49	HC22-2933	1190.32	970.1	220.22	358.44	198.5	443	56.3	229	43.3	114	9.84	33.1	4.54	25.3	4.77	13.1	1.75	11.8	2.02	22.7
344.49	349.41	HC22-2934	1113.13	892.1	221.03	345.81	180.5	397	53.3	219	42.3	111.5	10.35	34	4.91	26.3	4.95	13.3	1.78	11.9	2.04	24.3
349.41	354.33	HC22-2935	1023.18	811.8	211.38	320.02	160	361	48.8	202	40	108.5	9.21	31.8	4.52	24.7	4.82	12.8	1.85	11.15	2.03	22.9
354.33	359.25	HC22-2936	967.37	753.8	213.57	301.13	147	335	44.7	190	37.1	109	9.81	31.7	4.63	24.7	4.86	13.1	1.84	11.95	1.98	24
359.25	364.17	HC22-2937	985.39	761.2	224.19	312.39	145	334	46.4	197	38.8	116	9.78	33.6	4.89	25.3	5.03	13.25	1.87	12.4	2.07	21.4
364.17	369.09	HC22-2938	1066.77	846	220.77	322.21	173.5	380	50.2	204	38.3	117	8.09	31.6	4.51	25.2	4.65	13.85	1.84	12.05	1.98	18.2
369.09	374.02	HC22-2939	1138.11	914.7	223.41	343.15	187	415	53.3	219	40.4	117	9.07	32.7	4.65	25.8	4.96	13.1	1.8	12.35	1.98	21.8
374.02	378.94	HC22-2940	1078.44	858.2	220.24	328.13	174.5	385	50.3	209	39.4	114	9.56	33.1	4.63	24.8	4.76	13.4	1.84	12.15	2	22.7
378.94	383.86	HC22-2941	1031.39	820.3	211.09	317.31	165	367	48.4	202	37.9	108	9.64	31.8	4.61	24.4	4.81	12.9	1.68	11.3	1.95	23.5
383.86	388.78	HC22-2942	902.07	702.7	199.37	270.47	143.5	315	41.6	170.5	32.1	105	8.68	27.2	3.97	22.3	4.38	12.8	1.74	11.4	1.9	18.3
388.78	393.70	HC22-2943	1096.65	874.4	222.25	332.22	179	393	51.9	211	39.5	116.5	10.15	32.3	4.52	25.3	4.82	13.3	1.84	11.6	1.92	20
393.70	398.62	HC22-2944	1049.23	836.3	212.93	319.27	170.5	376	49.5	203	37.3	109	10.2	32	4.57	24.9	4.66	12.65	1.8	11.2	1.95	19.9
398.62	403.54	HC22-2945	1081.91	861.8	220.11	329.54	176.5	386	50.9	209	39.4	112	10.8	33	4.54	25.7	4.98	13.4	1.79	11.75	2.15	19.3
403.54	408.46	HC22-2946	1096.21	882.1	214.11	332.16	177	402	50.6	212	40.5	109	11	32.2	4.56	24.5	4.74	12.4	1.83	11.8	2.08	18.6
408.46	413.39	HC22-2947	1089.71	881.4	208.31	332.32	180	397	49.9	215	39.5	107	10.6	30.9	4.32	23.6	4.52	11.9	1.78	11.7	1.99	20.1
413.39	418.31	HC22-2948	997.57	787	210.57	306.72	157	351	45	196	38	108	11.25	31.2	4.32	23.4	4.65	12.3	1.71	11.75	1.99	17.5
418.31	423.23	HC22-2950	1103.56	888.2	215.36	338.72	177	401	50.4	219	40.8	110	10.8	32.9	4.42	24.1	4.86	12.45	1.81	12	2.02	17.2
423.23	428.15	HC22-2951	1090.59	869.1	221.49	334.26	175	390	49.9	214	40.2	113.5	10.7	33.4	4.66	25.5	4.87	12.6	1.97	12.2	2.09	17.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM007	4,635,641.71	474,336.28	5,829.02	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-2952	1043.24	840.5	202.74	318.63	171	378	48.7	205	37.8	104	10.05	30.6	4.23	22.9	4.42	12.15	1.64	10.8	1.95	18.3
433.07	437.99	HC22-2953	1128.92	916.8	212.12	339.19	184.5	422	51.5	219	39.8	107	10.95	32.4	4.49	24.4	4.73	12.5	1.74	11.85	2.06	18
437.99	442.91	HC22-2954	1103.39	889.4	213.99	339.78	178	400	51.2	219	41.2	110	10.8	31.6	4.48	23.9	4.66	12.55	1.74	12.15	2.11	22.3
442.91	447.83	HC22-2955	1048.37	838.6	209.77	323.31	168	376	48.7	208	37.9	106	10.7	31.8	4.41	24.3	4.56	12.4	1.69	11.85	2.06	21.3
447.83	452.76	HC22-2956	1079.81	865.6	214.21	332.95	174.5	387	49.8	215	39.3	109	11.05	32.5	4.55	24.3	4.59	12.7	1.79	11.6	2.13	20.6
452.76	457.68	HC22-2957	1104.32	880.9	223.42	343.7	174.5	393	51.2	220	42.2	114	10.7	34.1	4.8	25.5	4.9	13.1	1.84	12.3	2.18	19.4
457.68	462.60	HC22-2958	1263.44	1034.7	228.74	378.69	211	476	57.7	246	44	117	11	34.5	4.79	26.2	4.99	13.65	1.92	12.5	2.19	16.5
462.60	467.52	HC22-2959	1260.24	1040.4	219.84	374.09	217	479	58.2	244	42.2	111.5	10.55	34	4.59	25.1	4.85	13.3	1.76	12.1	2.09	17.3
467.52	472.44	HC22-2960	1051.16	859.1	192.06	311.42	180	393	48.2	201	36.9	101	8.19	28.5	3.92	21.4	4.15	11.1	1.67	10.4	1.73	13.3
472.44	477.36	HC22-2961	1258.08	1037.1	220.98	369.37	218	479	57.6	240	42.5	114	10.9	33.5	4.67	24.6	4.74	13	1.84	11.75	1.98	17.9
477.36	482.28	HC22-2962	1181.3	956.3	225	355.77	194	437	53.6	229	42.7	115.5	10.8	33.8	4.67	25.8	4.91	13.55	1.83	12.15	1.99	18.7
482.28	487.20	HC22-2963	1233.52	1014.9	218.62	372.58	208	464	57.5	241	44.4	110	10.4	34.3	4.68	25	4.87	13.05	1.82	12.35	2.15	16.1
487.20	492.13	HC22-2964	1274.8	1048.5	226.3	381.55	213	484	59.1	249	43.4	115.5	10.7	35.5	4.85	25.2	5	13.15	1.87	12.4	2.13	14.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM008	4,635,621.56	474,662.25	5,786.62	492.13	RC

From Depth	*To Depth*	*Sample No.*	*TREE*	*LREE*	*HREE*	*MREE*	*Light REE*					*Heavy REE*										*Sc*
							La	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
0.00	4.92	HC22-2965	745.91	601.6	144.31	210.82	123.5	287	33	133	25.1	77.2	4.86	20.3	3.02	16.7	3.22	8.77	1.21	7.76	1.27	9.6
4.92	9.84	HC22-2966	1451.11	1254.2	196.91	406.05	277	598	68.4	267	43.8	100	10.25	31.8	4.25	22.6	4.19	11	1.51	9.77	1.54	8.8
9.84	14.76	HC22-2967	1349.03	1148.4	200.63	383.44	249	543	62.6	252	41.8	102.5	10.75	31.3	4.34	22.7	4.33	11.55	1.53	10	1.63	6.6
14.76	19.69	HC22-2968	1446.12	1243.5	202.62	408.73	271	591	67.2	270	44.3	103	11.3	32.2	4.33	22.9	4.35	11.3	1.64	9.97	1.63	6.2
19.69	24.61	HC22-2969	1584.76	1373.6	211.16	448.24	302	652	74.4	296	49.2	106.5	12.1	34	4.54	24.1	4.63	11.75	1.57	10.35	1.62	7.5
24.61	29.53	HC22-2971	1571.72	1347.6	224.12	449.11	295	634	73.7	296	48.9	113.5	12.4	35.4	4.71	25.8	4.82	12.7	1.83	11.2	1.76	6.1
29.53	34.45	HC22-2972	1468.93	1241.1	227.83	418.57	267	586	68	274	46.1	117	12.5	35.2	4.67	25.8	4.86	12.95	1.81	11.25	1.79	7
34.45	39.37	HC22-2973	1286.74	1071.6	215.14	369.87	228	502	59.1	240	42.5	111.5	11.9	31.9	4.37	23.9	4.66	12.15	1.7	11.2	1.86	6.8
39.37	44.29	HC22-2974	1266.08	1065.7	200.38	364.22	228	500	59.1	237	41.6	101.5	12.05	31	4.22	22.3	4.26	11.65	1.68	10.05	1.67	6
44.29	49.21	HC22-2975	1304.29	1096.8	207.49	373.51	235	516	60.5	242	43.3	106	11.3	32.3	4.31	23.4	4.49	11.7	1.63	10.6	1.76	6.7
49.21	54.13	HC22-2976	1215.99	1014.1	201.89	351.8	214	475	56.1	229	40	104.5	11.9	29.9	4.2	22.5	4.33	11.15	1.59	10.15	1.67	6.5
54.13	59.06	HC22-2977	1273.14	1067.8	205.34	365	229	501	58.1	237	42.7	105	11.95	31.7	4.4	22.8	4.41	11.45	1.57	10.25	1.81	6.3
59.06	63.98	HC22-2978	1229.96	1030.3	199.66	355.71	221	480	56.7	231	41.6	102	11.55	30.6	4.21	22.2	4.3	11.4	1.54	10.3	1.56	6.7
63.98	68.90	HC22-2979	1292.12	1084.4	207.72	374.9	231	506	59.6	244	43.8	107.5	11.65	30.9	4.2	23.3	4.58	11.7	1.61	10.55	1.73	7.1
68.90	73.82	HC22-2980	1338.5	1129.5	209	383.24	244	531	61.8	249	43.7	105.5	11.85	32.5	4.44	24.3	4.41	12	1.68	10.65	1.67	5.6
73.82	78.74	HC22-2981	830.67	692.8	137.87	242.25	149.5	319	38.5	158	27.8	71.6	7.61	20.7	2.85	15.1	2.94	7.97	1.08	6.9	1.12	4.7
78.74	83.66	HC22-2982	1214.2	1010.3	203.9	349.42	218	470	57.5	225	39.8	104	11.35	31.9	4.42	22.7	4.47	11.7	1.69	10.1	1.57	6.1
83.66	88.58	HC22-2983	1273.39	1067	206.39	366.72	230	497	60.6	238	41.4	106	11.85	32	4.32	22.4	4.3	11.8	1.69	10.3	1.73	6.7
88.58	93.50	HC22-2984	1214.15	1003.8	210.35	351.45	215	465	56.5	226	41.3	109	11.8	32.1	4.35	23.3	4.27	11.65	1.64	10.55	1.69	6.2
93.50	98.43	HC22-2985	1238.18	1026.3	211.88	359.96	220	474	58.8	233	40.5	109	12.3	32.4	4.46	23.2	4.52	11.95	1.66	10.7	1.69	5.7
98.43	103.35	HC22-2986	1200.44	994.7	205.74	347.11	215	460	57.3	223	39.4	105.5	11.95	31.8	4.31	23.1	4.3	11.4	1.59	10.05	1.74	5.5
103.35	108.27	HC22-2987	1172.54	969.4	203.14	338.22	210	448	54.9	218	38.5	104	11.85	31.2	4.22	22.6	4.42	11.15	1.66	10.35	1.69	4.9
108.27	113.19	HC22-2988	1220.04	1018.3	201.74	352.61	220	472	58	229	39.3	102.5	11.8	31.8	4.11	22.2	4.37	11.35	1.64	10.2	1.77	6
113.19	118.11	HC22-2990	1216.06	1009.2	206.86	351.14	218	467	57.4	228	38.8	106.5	12	31.8	4.34	22.6	4.5	11.55	1.68	10.15	1.74	6.5
118.11	123.03	HC22-2991	1143.48	952.3	191.18	329.94	204	443	53.9	214	37.4	97.6	11.5	29.3	3.94	20.7	4.15	11.1	1.49	9.79	1.61	5.2
123.03	127.95	HC22-2992	1285.52	1080.1	205.42	369.83	235	502	61.7	241	40.4	105.5	12.25	31.4	4.23	22.5	4.35	11.7	1.65	10.2	1.64	7
127.95	132.87	HC22-2993	1150.1	948.5	201.6	333.52	204	437	54.3	216	37.2	103	11.85	30.9	4.12	21.9	4.38	11.85	1.62	10.25	1.73	6.2
132.87	137.80	HC22-2994	1141.45	939.2	202.25	334.58	198	433	53.4	216	38.8	103.5	11.35	30.3	4.18	22.2	4.45	12.15	1.67	10.55	1.9	7.8
137.80	142.72	HC22-2995	1211.85	1008	203.85	354.95	217	463	58.4	230	39.6	103.5	11.5	31.9	4.25	22.7	4.36	11.55	1.71	10.65	1.73	6.7

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM008	4,635,621.56	474,662.25	5,786.62	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-2996	1185.71	984.5	201.21	344.99	212	454	56.1	223	39.4	103	11.75	30.6	4.09	22.4	4.38	11.5	1.61	10.15	1.73	7.1
147.64	152.56	HC22-2997	1120.92	920.3	200.62	329.18	193.5	424	52.9	212	37.9	104	11.05	29.8	4.18	22.2	4.37	11.4	1.68	10.2	1.74	7.6
152.56	157.48	HC22-2998	1248.43	1024.9	223.53	367.12	215	472	58.9	237	42	115.5	11.55	34.3	4.52	24.7	4.79	12.7	1.8	11.7	1.97	9.1
157.48	162.40	HC22-2999	1172.83	963	209.83	344.82	203	443	55.2	223	38.8	107	11.85	32.4	4.42	23.4	4.45	11.95	1.73	10.85	1.78	7
162.40	167.32	HC22-3000	1140.82	949.6	191.22	333.64	204	437	53.7	216	38.9	97.6	11.4	29.6	4.04	21	4.17	10.6	1.49	9.73	1.59	7
167.32	172.24	HC22-3001	1209.45	1013.1	196.35	346.92	220	472	57.8	225	38.3	99.3	12.3	30.7	4.12	21.7	4.26	10.95	1.57	9.87	1.58	6.6
172.24	177.17	HC22-3002	1214.48	1017.1	197.38	350.56	219	473	58.1	228	39	100.5	12.1	30.8	4.06	21.4	4.18	11.2	1.52	9.87	1.75	6.6
177.17	182.09	HC22-3003	1115.59	924.4	191.19	325.98	198.5	425	53.3	210	37.6	98.1	11.5	29.3	3.98	21.1	4.07	10.55	1.55	9.52	1.52	5.9
182.09	187.01	HC22-3004	1071.03	882.1	188.93	314.4	190	403	50.9	202	36.2	96.1	11.75	28.5	4.1	21.2	3.96	10.45	1.48	9.79	1.6	6.8
187.01	191.93	HC22-3005	1168.82	965.7	203.12	342.15	206	444	55	221	39.7	104.5	11.3	31.3	4.15	22.3	4.38	11.6	1.65	10.2	1.74	7.2
191.93	196.85	HC22-3006	1240.89	1031.2	209.69	360.7	220	478	58.7	233	41.5	107.5	12.2	31.8	4.3	23.2	4.48	11.9	1.64	10.95	1.72	6.9
196.85	201.77	HC22-3007	1205.4	1005.3	200.1	349.99	216	465	57.6	227	39.7	103	11.3	31	4.19	21.5	4.21	11.3	1.66	10.2	1.74	5.7
201.77	206.69	HC22-3008	1181.41	981	200.41	341.86	210	455	55.9	221	39.1	103.5	11.25	30.4	4.06	21.8	4.26	11.45	1.61	10.4	1.68	6.8
206.69	211.61	HC22-3010	1249.21	1044.8	204.41	360.82	224	487	58.9	235	39.9	105	11.85	31.2	4.22	22.8	4.47	11.3	1.61	10.25	1.71	5.8
211.61	216.54	HC22-3011	1145.74	949.4	196.34	331.49	205	439	54.7	213	37.7	101	11.1	30	4.09	22	4.21	10.8	1.53	10	1.61	7.1
216.54	221.46	HC22-3012	1133.27	932.1	201.17	332.49	198.5	427	53.7	215	37.9	103	11.8	31.1	3.99	21.9	4.18	11.75	1.6	10.2	1.65	6.5
221.46	226.38	HC22-3013	1200.6	996.7	203.9	346.97	213	463	57.2	223	40.5	105	11.55	31.6	4.17	22.1	4.32	11.55	1.66	10.3	1.65	7.3
226.38	231.30	HC22-3014	1176.15	971.3	204.85	342.03	207	449	55.2	220	40.1	105.5	11.95	31.1	4.13	22.6	4.43	11.55	1.65	10.3	1.64	5.1
231.30	236.22	HC22-3015	1214.81	1017	197.81	350.64	219	473	57	228	40	101	11.7	30.6	4.14	21.5	4.23	11.25	1.6	10.15	1.64	6.8
236.22	241.14	HC22-3016	1218.78	1013.6	205.18	354.3	217	469	57.6	230	40	106	12.1	31.2	4.2	22.5	4.32	11.4	1.61	10.05	1.8	7
241.14	246.06	HC22-3017	1165.47	964.6	200.87	339.93	205	446	55.7	220	37.9	102.5	11.65	30.8	4.23	22.1	4.38	11.6	1.59	10.4	1.62	5.8
246.06	250.98	HC22-3018	1304.4	1106.6	197.8	366.69	245	522	59.6	237	43	96.8	12.15	31.7	4.29	22.8	4.28	12.1	1.51	10.45	1.72	11
250.98	255.91	HC22-3019	1206.52	1006.1	200.42	341.73	219	473	54.7	219	40.4	98.6	12.1	31.5	4.33	23.3	4.39	12.25	1.51	10.65	1.79	10.1
255.91	260.83	HC22-3020	1158.68	961.3	197.38	329.47	208	451	52.1	211	39.2	98.3	11.85	30.2	4.07	23.1	4.34	11.9	1.48	10.4	1.74	10.3
260.83	265.75	HC22-3021	1195.38	998.8	196.58	338.65	220	467	53.7	219	39.1	96.6	12.1	31.2	4.25	22.6	4.3	11.8	1.58	10.5	1.65	9.9
265.75	270.67	HC22-3022	1232.17	1029.6	202.57	348.53	227	482	56.2	224	40.4	100.5	12.2	31.2	4.43	23.5	4.45	12.25	1.58	10.75	1.71	11.6
270.67	275.59	HC22-3023	1276.62	1066	210.62	359.93	236	499	57	231	43	104	12.4	33.2	4.53	24.4	4.66	12.65	1.62	11.25	1.91	11.8
275.59	280.51	HC22-3024	1219.71	1014.3	205.41	345.78	221	476	54.2	223	40.1	99.8	12.25	33.3	4.58	23.9	4.61	12.6	1.58	10.9	1.89	11
280.51	285.43	HC22-3025	1267.96	1067.1	200.86	354.82	235	505	56.8	229	41.3	99	12.1	31.3	4.42	23.3	4.41	12.3	1.52	10.7	1.81	10.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM008	*4,635,621.56*	*474,662.25*	*5,786.62*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-3026	1273.29	1070.5	202.79	360.78	236	501	57.6	234	41.9	99.9	12.35	32.6	4.38	22.9	4.43	12.25	1.56	10.7	1.72	10.6
290.35	295.28	HC22-3027	1190.12	983.5	206.62	338.64	216	457	53	218	39.5	101	12.7	33.1	4.54	23.6	4.59	12.55	1.58	11.1	1.86	10.6
295.28	300.20	HC22-3028	1292.5	1083.8	208.7	362.26	238	512	58.2	234	41.6	103.5	12.45	32.2	4.46	24	4.53	12.65	1.6	11.5	1.81	10.8
300.20	305.12	HC22-3029	2026.01	1693.1	332.91	547.82	390	803	89.5	348	62.6	176	8.41	50.4	7.22	40.5	7.47	20.4	2.52	17.4	2.59	7.1
305.12	310.04	HC22-3031	1999.52	1668.7	330.82	545.08	378	793	87.9	348	61.8	167	10.7	52.5	7.38	40	7.81	21.6	2.66	18.35	2.82	9.1
310.04	314.96	HC22-3032	1158.06	964.8	193.26	330.94	210	450	52.7	213	39.1	97.1	11.05	29.8	4.14	22	4.04	11.5	1.41	10.6	1.62	9.3
314.96	319.88	HC22-3033	1143.96	959.3	184.66	324.15	210	450	51	210	38.3	92.1	10.95	29.1	3.95	20.9	3.92	11.2	1.45	9.53	1.56	9.1
319.88	324.80	HC22-3034	1173.95	989.3	184.65	331.78	218	465	53.1	215	38.2	91.5	11.05	28.7	3.98	21.5	4.13	10.8	1.38	10.05	1.56	8.8
324.80	329.72	HC22-3035	1179	992.4	186.6	332.89	216	469	53.2	216	38.2	93.2	10.85	28.9	4.09	21.4	3.99	11.15	1.43	10.05	1.54	8.9
329.72	334.65	HC22-3036	1206.61	1015.3	191.31	341.52	223	477	55	221	39.3	94.8	11.25	30.4	4.12	22.1	4.17	11.5	1.41	9.93	1.63	9.1
334.65	339.57	HC22-3037	1258.42	1065.2	193.22	354.43	237	500	56.8	231	40.4	97	11.4	29.8	4.13	22.1	4.06	11.25	1.44	10.4	1.64	9.1
339.57	344.49	HC22-3038	1271.43	1074.4	197.03	358.86	236	507	57.3	233	41.1	96.9	11.5	31.3	4.26	23.2	4.33	11.8	1.48	10.45	1.81	9.5
344.49	349.41	HC22-3039	1143.96	966.6	177.36	320.63	215	455	51.7	208	36.9	89.1	10.1	27.4	3.73	20.3	3.86	10.65	1.31	9.44	1.47	9.1
349.41	354.33	HC22-3040	1131.7	941.3	190.4	318.54	204	446	50.4	204	36.9	92.6	11.45	29.9	4.24	23	4.23	11.5	1.44	10.5	1.54	8.8
354.33	359.25	HC22-3041	1099.28	918	181.28	310.08	201	432	49.5	198.5	37	90.3	10.85	27.9	3.88	21.2	3.91	10.6	1.4	9.67	1.57	9.5
359.25	364.17	HC22-3042	1213.32	1024.1	189.22	340.75	225	485	55.5	219	39.6	92.7	11.25	29.9	4.25	22.4	4.31	11.1	1.44	10.25	1.62	10.2
364.17	369.09	HC22-3043	1237.38	1041.9	195.48	348.58	229	491	55.7	226	40.2	96.3	11.7	31.2	4.18	22.5	4.3	11.55	1.48	10.6	1.67	10.1
369.09	374.02	HC22-3044	1192.89	997.5	195.39	340.38	221	464	53.4	221	38.1	94.2	12.1	31.5	4.28	23.6	4.3	11.55	1.55	10.6	1.71	10.8
374.02	378.94	HC22-3045	1240.27	1038.6	201.67	349.78	230	487	56.1	225	40.5	97.4	12.4	32.2	4.48	23.7	4.54	12.5	1.52	11.2	1.73	10.6
378.94	383.86	HC22-3046	1291.25	1091.7	199.55	362.13	244	514	59.3	233	41.4	96.1	12	32.8	4.43	24	4.46	12.05	1.56	10.4	1.75	9.8
383.86	388.78	HC22-3047	1196.42	1003.5	192.92	336.45	219	475	53.8	217	38.7	93.6	11.3	31.7	4.25	22.7	4.18	11.8	1.48	10.25	1.66	10.7
388.78	393.70	HC22-3048	1226.47	1029.3	197.17	346.44	225	485	55.3	223	41	96.7	11.5	31.6	4.34	22.8	4.32	12.2	1.48	10.5	1.73	10
393.70	398.62	HC22-3050	1304.31	1097.7	206.61	365.06	243	519	58.2	236	41.5	99.8	12.3	33.9	4.56	24.8	4.61	12.35	1.56	10.9	1.83	10.1
398.62	403.54	HC22-3051	1177.82	988.5	189.32	332.81	218	464	53.3	215	38.2	92.9	10.95	30	4.21	22.1	4.16	11.6	1.41	10.35	1.64	9.4
403.54	408.46	HC22-3052	1239.54	1049.6	189.94	349.98	231	495	55.7	228	39.9	92.6	11.3	30.7	4.18	22.2	4.16	11.5	1.52	10.2	1.58	10.4
408.46	413.39	HC22-3053	1141.22	949.4	191.82	325.95	208	442	50.8	210	38.6	94.2	11	30.4	4.15	22.4	4.27	11.6	1.44	10.7	1.66	10.1
413.39	418.31	HC22-3054	1290.35	1078.9	211.45	376.93	234	496	61.4	243	44.5	107.5	12.65	33.5	4.23	23.8	4.36	12	1.58	10.15	1.68	7.9
418.31	423.23	HC22-3055	1335.52	1121.3	214.22	383.55	245	521	63.2	248	44.1	110	12.25	33.9	4.25	24	4.38	11.55	1.54	10.65	1.7	7.8
423.23	428.15	HC22-3056	1228.08	1020.2	207.88	358.67	221	468	57.4	232	41.8	105.5	12.6	33	4.37	23.1	4.31	11.75	1.56	10.05	1.64	8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM008	4,635,621.56	474,662.25	5,786.62	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-3057	1239.21	1032.5	206.71	362.71	224	473	58.4	236	41.1	106	12.3	32	4.31	22.9	4.29	11.65	1.52	10.1	1.64	7
433.07	437.99	HC22-3058	1164.4	937.7	226.7	347.32	196.5	423	53.8	222	42.4	118	12.45	34.4	4.52	24.6	4.72	13.45	1.68	11.1	1.78	9.7
437.99	442.91	HC22-3059	1271.79	1053.7	218.09	371.45	227	484	59.1	240	43.6	112.5	12.2	33.3	4.45	24.3	4.39	12.8	1.67	10.7	1.78	8.4
442.91	447.83	HC22-3060	1325.93	1107.8	218.13	384.13	243	509	62.8	250	43	112.5	12.85	33.5	4.43	23.9	4.35	12.55	1.6	10.75	1.7	8.7
447.83	452.76	HC22-3061	1282.85	1059	223.85	381.69	225	482	59.7	249	43.3	114	12.7	34.8	4.59	25.1	4.59	13.1	1.78	11.35	1.84	10
452.76	457.68	HC22-3062	1282.5	1058.3	224.2	379.75	226	482	60.2	245	45.1	116	12.35	33.6	4.55	24.9	4.63	13.1	1.7	11.5	1.87	9.4
457.68	462.60	HC22-3063	1260.79	1038.2	222.59	374.89	221	472	59.4	241	44.8	114	12.25	34.3	4.49	25.2	4.67	12.7	1.7	11.4	1.88	12.3
462.60	467.52	HC22-3064	1256.9	1031.2	225.7	373.58	218	469	58.9	241	44.3	117	12.25	34.4	4.68	24.7	4.55	12.95	1.75	11.5	1.92	10.2
467.52	472.44	HC22-3065	1239.91	1022	217.91	369.79	217	464	58.2	239	43.8	111.5	12.35	34	4.69	24.1	4.54	12.4	1.66	10.85	1.82	9.8
472.44	477.36	HC22-3066	1311.11	1096.7	214.41	381.91	238	505	61.5	247	45.2	110.5	12.65	33	4.41	23.8	4.33	11.85	1.6	10.5	1.77	6.4
477.36	482.28	HC22-3067	1328.39	1099.8	228.59	390.73	234	505	62.3	251	47.5	117	12.75	35.7	4.53	25.4	4.76	13.35	1.74	11.4	1.96	11.4
482.28	487.20	HC22-3068	1248.13	1035.7	212.43	368.87	222	473	58.6	240	42.1	108.5	12.15	32.7	4.37	23.8	4.5	12.2	1.58	10.85	1.78	8.2
487.20	492.13	HC22-3070	1302.17	1093.6	208.57	376.21	240	505	61.4	245	42.2	106.5	12.25	32.7	4.21	23.4	4.26	11.75	1.62	10.2	1.68	8.6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM009	4,635,648.93	475,021.50	5,734.09	492.13	RC

From Depth	*To Depth*	*Sample No.*							*Light REE*							*Heavy REE*					
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-3071	1322.47	1102.6	219.87	389.85	241	501	62.7	252	45.9	114.5	10.85	34	4.55	24.7	4.55	12.55	1.69	10.7	1.78	7.2
4.92	9.84	HC22-3072	1141.02	932.5	208.52	334.82	201	424	53.2	215	39.3	109	11	30.9	4.22	23.1	4.25	12.1	1.66	10.55	1.74	7.2
9.84	14.76	HC22-3073	1632.54	1395.7	236.84	464.3	308	655	76.2	306	50.5	121	12.1	38.3	5	26.6	4.97	13.5	1.87	11.65	1.85	6.2
14.76	19.69	HC22-3074	2075.68	1815	260.68	581.95	407	861	99.2	387	60.8	133.5	12.15	43.7	5.65	29.3	5.23	14.65	1.9	12.5	2.1	7.4
19.69	24.61	HC22-3075	1753.46	1493.7	259.76	504.3	326	698	82.7	330	57	133.5	12.05	43	5.4	29.2	5.39	14.75	1.97	12.5	2	7.3
24.61	29.53	HC22-3076	1439.93	1195.4	244.53	422.96	254	551	67.7	273	49.7	126.5	12.35	38.8	5.16	27.4	4.98	13.95	1.78	11.7	1.91	5.4
29.53	34.45	HC22-3077	1564.97	1337.3	227.67	447.65	293	627	74.4	292	50.9	117	12.2	37.2	4.65	25.7	4.52	12.55	1.66	10.45	1.74	5
34.45	39.37	HC22-3078	1647.47	1408.4	239.07	474.1	308	659	78.6	309	53.8	123.5	12.35	37.8	5	27.7	4.9	13.35	1.72	11.05	1.7	6.5
39.37	44.29	HC22-3079	1339.55	1110.6	228.95	393.76	236	512	61.8	255	45.8	117.5	11.9	36	4.76	26.4	4.61	13.35	1.71	11	1.72	6.2
44.29	49.21	HC22-3080	1340.38	1113.4	226.98	389.1	244	511	62.5	251	44.9	116.5	11.85	36	4.7	26	4.73	12.9	1.7	10.6	2	6.8
49.21	54.13	HC22-3081	1790.47	1549.2	241.27	510.08	345	727	85.9	336	55.3	122.5	12.3	40.6	5.18	27.7	4.99	13.35	1.78	11.1	1.77	7.4
54.13	59.06	HC22-3082	1430.34	1209.2	221.14	409.66	260	569	66.6	268	45.6	113.5	11.75	35.3	4.76	24.7	4.6	12.7	1.65	10.5	1.68	5.9
59.06	63.98	HC22-3083	1645	1398.3	246.7	475.07	308	649	78.8	310	52.5	124.5	12.45	40.9	5.17	28.6	5.14	14.2	1.86	12	1.88	6
63.98	68.90	HC22-3084	1672.18	1440.6	231.58	475.02	319	678	79.3	313	51.3	117.5	11.4	38.6	5.02	26.4	4.69	13.45	1.69	11.05	1.78	4.1
68.90	73.82	HC22-3085	1479.75	1254.2	225.55	428.71	267	589	69.7	280	48.5	116	11.6	35.8	4.81	25.7	4.59	12.85	1.63	10.8	1.77	5.4
73.82	78.74	HC22-3086	1644.63	1401.1	243.53	475.51	304	654	78.8	312	52.3	125	11.85	39.7	5.21	27.2	5.27	14	1.78	11.6	1.92	6.5
78.74	83.66	HC22-3087	1743.7	1503.4	240.3	498.81	332	705	84	328	54.4	122	12.25	40.2	5.21	27.2	4.94	13.65	1.74	11.35	1.76	5.5
83.66	88.58	HC22-3088	1343.08	1115.5	227.58	397.72	238	511	63.9	257	45.6	117	11.15	36.4	4.72	26.5	4.59	12.9	1.72	10.9	1.7	6.9
88.58	93.50	HC22-3089	1604.63	1364.7	239.93	461.87	293	642	75	303	51.7	124	12	38.3	4.97	27.2	5.01	13.3	1.78	11.5	1.87	6.5
93.50	98.43	HC22-3091	1565.1	1340.8	224.3	447.94	308	615	75.5	293	49.3	116.5	11	34.9	4.64	25.5	4.86	12.5	1.66	11	1.74	4.7
98.43	103.35	HC22-3092	1606.27	1384.2	222.07	462.16	314	638	78.5	303	50.7	115.5	10.65	35.1	4.56	25.4	4.68	12.2	1.61	10.65	1.72	4.9
103.35	108.27	HC22-3093	1620.28	1403.5	216.78	460.36	319	653	79.2	303	49.3	111.5	10.85	35.3	4.46	24.4	4.66	11.85	1.66	10.45	1.65	4.8
108.27	113.19	HC22-3094	1730.06	1497.4	232.66	500.08	333	695	84.9	331	53.5	121	11.2	37.2	4.68	26	4.92	12.95	1.72	11.2	1.79	3
113.19	118.11	HC22-3095	1240.79	1025.8	214.99	366.83	220	467	59.1	237	42.7	113	10.75	32.2	4.33	23.7	4.66	12.3	1.63	10.75	1.67	4.6
118.11	123.03	HC22-3096	1276.04	1057.7	218.34	370.62	232	484	60.3	238	43.4	114.5	10.65	32.8	4.32	24.6	4.71	12.35	1.63	11.05	1.73	4
123.03	127.95	HC22-3097	1341.6	1114	227.6	390.39	245	509	63.1	251	45.9	119.5	10.9	34.4	4.59	25.8	4.95	12.75	1.71	11.25	1.75	5.3
127.95	132.87	HC22-3098	1343.05	1109.2	233.85	392.85	242	505	63.6	252	46.6	123.5	11	34.9	4.65	26	5.06	13.25	1.8	11.85	1.84	5.6
132.87	137.80	HC22-3099	1143.31	927.8	215.51	335.07	201	420	53.2	213	40.6	113.5	10.7	31.4	4.27	24	4.61	12.65	1.65	11	1.73	4.5
137.80	142.72	HC22-3100	1209.92	984.1	225.82	354.72	211	448	56.7	226	42.4	119	10.7	33.3	4.42	25.2	4.88	13.15	1.78	11.55	1.84	5.1

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM009	4,635,648.93	475,021.50	5,734.09	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-3101	1237.92	1025.2	212.72	357.88	226	469	58.4	230	41.8	112	10.65	31.4	4.18	23.5	4.65	12.1	1.69	10.85	1.7	4.3
147.64	152.56	HC22-3102	1237.13	1020.3	216.83	360.09	224	465	57.9	231	42.4	113.5	11.2	32.2	4.39	24.4	4.72	12.3	1.71	10.7	1.71	5.8
152.56	157.48	HC22-3103	1115.27	906.1	209.17	325.06	193.5	415	52.1	207	38.5	111	10.35	30.3	4.06	23.4	4.49	11.95	1.57	10.4	1.65	4.2
157.48	162.40	HC22-3104	1181.32	963.4	217.92	340.26	210	441	55.2	217	40.2	116	10.65	31.6	4.26	23.6	4.68	12.55	1.7	11.2	1.68	5.9
162.40	167.32	HC22-3105	1256.44	1035.8	220.64	358.28	234	472	59	229	41.8	117	10.85	32.3	4.28	24.2	4.67	12.35	1.7	11.5	1.79	4.6
167.32	172.24	HC22-3106	1219.98	992.1	227.88	349.02	216	457	56	221	42.1	121.5	10.45	32.7	4.52	25.4	4.92	12.9	1.79	11.9	1.8	4.4
172.24	177.17	HC22-3107	1186.18	973.6	212.58	337.23	222	442	55.2	215	39.4	113	10.5	30.2	4.13	23.5	4.5	12.25	1.64	11.2	1.66	3.7
177.17	182.09	HC22-3108	1204.84	975.8	229.04	347.02	212	446	55	221	41.8	124	10.4	31.8	4.32	24.9	4.83	12.95	1.79	12.15	1.9	5
182.09	187.01	HC22-3110	1183.04	947.5	235.54	343.09	207	428	54.2	217	41.3	126	10.95	33.2	4.59	26	5.06	13.85	1.88	12.15	1.86	4.3
187.01	191.93	HC22-3111	1275.05	1020.5	254.55	369.29	218	466	58.3	233	45.2	138	10.35	35.9	4.89	27.9	5.28	14.8	2.03	13.35	2.05	3.8
191.93	196.85	HC22-3112	1209.98	972.6	237.38	351.84	212	439	56.1	224	41.5	129.5	10.2	32.9	4.54	25.7	5.01	13.4	1.92	12.35	1.86	4.5
196.85	201.77	HC22-3113	1196.29	967.8	228.49	340.08	215	442	54.7	216	40.1	123.5	10.45	31.4	4.28	25	4.83	13	1.88	12.25	1.9	4.5
201.77	206.69	HC22-3114	1107.35	889.8	217.55	315.41	198	404	50.5	200	37.3	118	9.94	29.3	4.11	23.5	4.67	12.7	1.76	11.8	1.77	4.7
206.69	211.61	HC22-3115	1122.75	899.9	222.85	321.75	197.5	409	51.4	203	39	120.5	9.84	30.7	4.25	24.1	4.77	12.85	1.81	12.15	1.88	5.1
211.61	216.54	HC22-3116	1148.46	932.4	216.06	327.35	207	426	52.6	208	38.8	115.5	10.4	30.5	4.15	23.8	4.52	12.2	1.71	11.5	1.78	4.5
216.54	221.46	HC22-3117	976.34	787.7	188.64	277.78	171	363	44.5	176	33.2	101	9.6	26.4	3.58	20.5	3.99	10.85	1.44	9.76	1.52	3.2
221.46	226.38	HC22-3118	1117	910	207	316.75	200	420	51.2	201	37.8	111	9.96	29.2	3.95	22.8	4.44	11.7	1.61	10.7	1.64	4.3
226.38	231.30	HC22-3119	1029.73	822.3	207.43	295.11	177	377	47.2	185.5	35.6	111.5	10.1	28.7	4.01	22.8	4.38	12.1	1.64	10.55	1.65	4.3
231.30	236.22	HC22-3120	1190.83	953.3	237.53	341.14	206	437	54.5	215	40.8	129	9.76	33.1	4.64	26.2	5.02	13.85	1.88	12.15	1.93	4.6
236.22	241.14	HC22-3121	975.52	761.4	214.12	286.48	156.5	346	44.2	179.5	35.2	116	9.76	29.4	4.08	23.5	4.55	12.4	1.71	11	1.72	4.3
241.14	246.06	HC22-3122	1269.32	1024.9	244.42	362.9	227	467	58.4	229	43.5	133	10.05	33.7	4.7	27.3	5.25	14.15	1.93	12.4	1.94	4.9
246.06	250.98	HC22-3123	1160.81	939.5	221.31	330.83	210	427	53.6	210	38.9	120	9.91	30.5	4.33	24	4.7	13.05	1.74	11.35	1.73	4.5
250.98	255.91	HC22-3124	1071.45	851.9	219.55	309.37	177	394	49	194	37.9	118.5	10.25	29.8	4.27	24.2	4.7	13.05	1.76	11.3	1.72	4.1
255.91	260.83	HC22-3125	1095.27	869.8	225.47	312.67	188	398	49.8	195.5	38.5	123	9.83	30.7	4.27	24.6	4.85	13.35	1.76	11.35	1.76	4.1
260.83	265.75	HC22-3126	1088.08	869.8	218.28	306.95	184.5	406	48.4	194	36.9	120.5	9.56	29.1	4.05	23.6	4.59	12.6	1.7	10.85	1.73	4.7
265.75	270.67	HC22-3127	1111.97	896.4	215.57	312.52	194.5	417	49.6	197.5	37.8	118	9.48	29.6	4.12	23.5	4.53	12.05	1.75	10.85	1.69	5.8
270.67	275.59	HC22-3128	1175.01	926.3	248.71	337.54	193	428	52.2	212	41.1	135.5	9.76	34.3	4.84	27.4	5.39	14.65	2.05	12.85	1.97	6.4
275.59	280.51	HC22-3130	1154.7	926.7	228	326.15	199.5	431	51.6	205	39.6	124	9.63	31.5	4.35	25.6	4.92	12.95	1.79	11.5	1.76	5.3
280.51	285.43	HC22-3131	1292.15	1049.3	242.85	359	231	491	57.6	227	42.7	132.5	9.58	34	4.8	26.9	5.26	13.9	1.93	12.1	1.88	4.6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM009	4,635,648.93	475,021.50	5,734.09	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-3132	1253.07	1012.6	240.47	349.64	219	476	55.9	220	41.7	129.5	9.65	34.2	4.74	27.3	5.33	13.7	1.92	12.25	1.88	5.6
290.35	295.28	HC22-3133	1189.97	946.4	243.57	335.24	202	441	52.4	210	41	134.5	9.6	32.9	4.64	27.2	5.32	13.65	1.88	12	1.88	5.9
295.28	300.20	HC22-3134	1144.77	907.2	237.57	323.12	196.5	419	50.4	203	38.3	129.5	9.46	32.5	4.62	26.8	5.16	13.85	1.93	11.9	1.85	5.5
300.20	305.12	HC22-3135	1194.89	954.5	240.39	334.8	208	443	53.8	210	39.7	132	9.29	33	4.6	26.7	5.23	13.7	1.92	12.05	1.9	5.1
305.12	310.04	HC22-3136	1414.8	1127.4	287.4	398.82	248	518	63	251	47.4	158.5	9.28	40	5.62	31.8	6.33	16.8	2.25	14.5	2.32	6
310.04	314.96	HC22-3137	1313.03	1058.6	254.43	367.29	230	494	58.4	232	44.2	139.5	9.37	35.6	4.89	27.8	5.55	15	2	12.7	2.02	5.9
314.96	319.88	HC22-3138	1158.92	923.1	235.82	329.82	197	427	52	207	40.1	130	8.53	32.3	4.62	26.1	5.14	13.65	1.86	11.75	1.87	5.1
319.88	324.80	HC22-3139	1363.27	1096.7	266.57	379.02	249	503	60.2	239	45.5	147.5	9.31	36.7	5.22	29.1	5.79	14.95	2.14	13.7	2.16	5.1
324.80	329.72	HC22-3140	1252.5	1006.4	246.1	352.63	218	468	56.1	222	42.3	135	9.04	34.1	4.83	27.4	5.38	13.95	1.99	12.45	1.96	4.2
329.72	334.65	HC22-3141	1298.94	1052.4	246.54	359.02	236	489	57.6	227	42.8	137	9.27	33.1	4.72	26.9	5.3	14.1	1.95	12.3	1.9	5.9
334.65	339.57	HC22-3142	1341.01	1083.9	257.11	371.81	243	502	60.2	235	43.7	142.5	9.49	34.8	4.91	28	5.5	14.85	2.03	13.05	1.98	5.5
339.57	344.49	HC22-3143	1240.7	981.9	258.8	350.85	207	457	54.9	220	43	145	9.73	34.3	4.85	28.1	5.51	14.7	2.01	12.6	2	5.5
344.49	349.41	HC22-3144	1311.35	1037.5	273.85	373.95	219	480	58.1	234	46.4	151	9.88	37.5	5.25	30.2	5.93	16.1	2.19	13.65	2.15	5
349.41	354.33	HC22-3145	1146.55	878.5	268.05	332.55	177.5	404	49.7	205	42.3	147.5	9.91	36	5.15	30.4	5.84	15.45	2.21	13.45	2.14	5.9
354.33	359.25	HC22-3146	1249.97	981.7	268.27	358.72	204	454	55.7	223	45	149	9.26	36.5	5.12	29.9	5.86	15.3	2.13	13.15	2.05	5.2
359.25	364.17	HC22-3147	1054.72	813.5	241.22	301.58	167.5	376	45.8	186	38.2	133.5	8.59	32.2	4.68	26.9	5.28	14	1.95	12.2	1.92	4
364.17	369.09	HC22-3148	1257.74	981.1	276.64	356.31	204	457	54.7	221	44.4	154	8.13	37.7	5.31	30.9	6.14	16.25	2.27	13.75	2.19	4.8
369.09	374.02	HC22-3149	1139.14	863.3	275.84	335.82	171	393	50	205	44.3	154.5	7.72	37	5.32	31.2	6.2	15.95	2.19	13.65	2.11	4.3
374.02	378.94	HC22-3151	1453.3	1165.7	287.6	412.23	257	535	65.5	258	50.2	160	7.97	40.1	5.63	32.9	6.29	16.7	2.22	13.65	2.14	5.3
378.94	383.86	HC22-3152	2344.02	2049.3	294.72	626.44	505	959	109.5	407	68.8	157.5	6.19	49.1	6.44	34.7	6.46	16.75	2.2	13.4	1.98	3.9
383.86	388.78	HC22-3153	1771.37	1479.4	291.97	478.69	350	692	79.5	302	55.9	160	4.59	45.2	6.39	34.9	6.64	16.65	2.2	13.5	1.9	4
388.78	393.70	HC22-3154	1492.92	1188.1	304.82	413.23	273	544	65.8	255	50.3	172.5	4.14	43.2	6.33	35.8	7.02	17.9	2.32	13.7	1.91	4.4
393.70	398.62	HC22-3155	1682.5	1352.6	329.9	462.85	307	629	73.4	287	56.2	187.5	4.31	46	6.75	39.5	7.5	19.25	2.49	14.5	2.1	3.9
398.62	403.54	HC22-3156	1438.34	1142.6	295.74	399.72	260	525	63	245	49.6	166	3.34	41.5	6.22	35.9	7.01	17.85	2.33	13.65	1.94	3.6
403.54	408.46	HC22-3157	1587.65	1270.8	316.85	425.74	291	598	69.1	262	50.7	183	3.21	41.5	6.34	37.6	7.33	18.85	2.52	14.5	2	4.3
408.46	413.39	HC22-3158	1422.84	1103	319.84	388.49	246	512	61.3	236	47.7	186	3.24	40.4	6.19	37.3	7.25	19.4	2.59	15.4	2.07	3.6
413.39	418.31	HC22-3159	1333.45	1070	263.45	348.82	247	510	57.1	214	41.9	153	3.28	33.4	5.12	30.7	5.94	15.65	2.14	12.4	1.82	3.4
418.31	423.23	HC22-3160	1490.11	1172.1	318.01	389.04	275	550	63.4	237	46.7	188.5	3.43	38.8	6.04	35.9	7.06	18.65	2.56	14.95	2.12	4.1
423.23	428.15	HC22-3161	1689.21	1370.7	318.51	428.88	337	647	72.2	266	48.5	186.5	3.26	40.5	6.08	36.1	7.1	18.85	2.55	15.4	2.17	3.6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM009	*4,635,648.93*	*475,021.50*	*5,734.09*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
428.15	433.07	HC22-3162	1534.33	1227.1	307.23	389.09	301	578	68.2	235	44.9	175.5	3.31	40.2	5.99	35	6.89	19.8	2.62	15.85	2.07	4.7
433.07	437.99	HC22-3163	1531.05	1224.7	306.35	391.58	300	573	68.1	238	45.6	177.5	3.03	39	5.68	34.2	6.56	19.75	2.55	15.95	2.13	4.8
437.99	442.91	HC22-3164	1513.85	1176.1	337.75	401.56	275	544	66.9	242	48.2	194.5	3.28	43.4	6.46	38	7.5	22.2	2.79	17.3	2.32	4.2
442.91	447.83	HC22-3165	1470.5	1142.9	327.6	392.66	272	522	65.5	236	47.4	188.5	3.16	42.7	6.36	37.4	7.33	21	2.79	16.2	2.16	5
447.83	452.76	HC22-3166	1540.56	1199.6	340.96	404.42	283	557	68.1	244	47.5	195	3.29	43.9	6.62	38.2	7.61	22.6	3.03	18.35	2.36	5.2
452.76	457.68	HC22-3167	1409.73	1108.3	301.43	366.44	267	515	62.9	221	42.4	173	3.04	38.8	5.84	34.3	6.67	19.6	2.54	15.5	2.14	5.5
457.68	462.60	HC22-3168	1505.67	1173	332.67	398.35	281	537	67.3	240	47.7	191	3.58	43	6.45	36.9	7.38	21.8	2.77	17.5	2.29	4.6
462.60	467.52	HC22-3170	1576.96	1245.1	331.86	407.24	304	578	69.6	246	47.5	189.5	3.38	43	6.34	37.8	7.31	21.7	2.86	17.6	2.37	4.8
467.52	472.44	HC22-3171	1451.95	1157.5	294.45	372.91	282	542	64.6	225	43.9	168.5	3.12	38	5.81	33.6	6.34	19.25	2.5	15.3	2.03	3.8
472.44	477.36	HC22-3172	1456.62	1157.5	299.12	378.04	277	542	65.9	228	44.6	171	3.14	38.9	5.74	33.8	6.51	19.9	2.53	15.6	2	3.4
477.36	482.28	HC22-3173	1319.68	1022.2	297.48	358.48	229	475	59.2	215	44	168	3.58	39.5	5.98	34.3	6.59	19.85	2.52	15.2	1.96	4.2
482.28	487.20	HC22-3174	1298.19	1018.9	279.29	356.55	229	472	59.3	216	42.6	155	3.06	39.4	5.75	32.9	6.48	18.4	2.38	14.1	1.82	4.4
487.20	492.13	HC22-3175	1523.86	1226.9	296.96	405.41	288	575	69.5	247	47.4	166	3.3	42.6	6.21	35.3	6.71	18.8	2.34	13.9	1.8	3.5

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM010	4,635,668.80	475,246.38	5,712.05	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-3176	227.39	177.17	50.22	64.61	39.5	79.6	10.25	40.2	7.62	27.6	1.5	6.09	0.95	5.59	1.14	3.27	0.47	3.12	0.49	7.2
4.92	9.84	HC22-3177	391.32	310.5	80.82	107.97	71.7	141.5	18.1	67.4	11.8	44.8	2.12	9.99	1.54	9.13	1.83	5.18	0.76	4.76	0.71	12.9
9.84	14.76	HC22-3178	425.34	344.3	81.04	122.59	79.3	153	20.6	78.2	13.2	44.3	2.5	11.05	1.62	8.97	1.88	4.9	0.69	4.51	0.62	14.9
14.76	19.69	HC22-3179	1900.04	1711.5	188.54	551.12	407	780	99.4	372	53.1	90	10.25	35	4.32	22.3	4.04	10.4	1.4	9.35	1.48	7.8
19.69	24.61	HC22-3180	2341.17	2123.6	217.57	672.32	498	985	123.5	454	63.1	101	11.55	42.2	5.12	26.6	4.8	12.15	1.6	10.8	1.75	4.7
24.61	29.53	HC22-3181	2920.06	2659.4	260.66	846.21	626	1225	155	574	79.4	122	12.75	51.3	6.31	31.5	5.76	14.3	1.96	12.75	2.03	3.5
29.53	34.45	HC22-3182	4144.54	3839	305.54	1095.9	936	1850	199	749	105	149	11.95	61.4	7.1	35.8	6.28	15.8	2.22	13.7	2.29	8.3
34.45	39.37	HC22-3183	3984.61	3672	312.61	1069.71	902	1745	192	732	101	150	12.75	62.9	7.31	37.4	6.56	16.85	2.18	14.25	2.41	9.8
39.37	44.29	HC22-3184	3797.25	3492.7	304.55	1016.67	864	1655	183	693	97.7	148.5	12.75	59.9	6.87	36.1	6.3	16	2.06	13.65	2.42	9.4
44.29	49.21	HC22-3185	3582.4	3297.6	284.8	954.7	813	1570	172	653	89.6	136.5	12.7	57	6.7	33.4	5.93	15.55	2.07	12.75	2.2	9.1
49.21	54.13	HC22-3186	4296.73	3975.5	321.23	1133.88	962	1925	206	775	107.5	155	12.55	65.3	7.58	37.8	6.67	17.3	2.3	14.35	2.38	9
54.13	59.06	HC22-3187	3651.93	3373.9	278.03	968.68	829	1615	177	662	90.9	135	12.2	55.1	6.48	32.3	5.6	14.85	1.95	12.4	2.15	8.7
59.06	63.98	HC22-3188	3882.17	3583.8	298.37	1033.73	872	1720	186.5	708	97.3	145.5	12.6	59.1	6.83	35.1	6.21	15.6	2.05	13.2	2.18	8.8
63.98	68.90	HC22-3190	4527.3	4186	341.3	1203.99	1020	2010	218	824	114	165	12.85	70.1	7.99	40	6.9	18.15	2.33	15.45	2.53	9.4
68.90	73.82	HC22-3191	4156.77	3833	323.77	1106.1	927	1845	201	753	107	156.5	13.15	65.7	7.4	37.7	6.76	16.9	2.34	14.85	2.47	8.7
73.82	78.74	HC22-3192	4207.98	3879.5	328.48	1126.49	945	1855	204	768	107.5	158	13.25	66.1	7.79	39.2	6.76	17.8	2.35	14.65	2.58	9.1
78.74	83.66	HC22-3193	3962.64	3649	313.64	1055.26	893	1745	191	720	100	151	13.05	63.4	7.36	36.9	6.61	16.55	2.22	14.15	2.4	10
83.66	88.58	HC22-3194	4650.12	4297	353.12	1242.26	1055	2050	225	849	118	168	13	74.8	8.46	41.8	7.3	18.5	2.51	16	2.75	8.9
88.58	93.50	HC22-3195	3928.32	3618.6	309.72	1046.61	872	1745	190	713	98.6	148.5	12.5	62.6	7.41	37.6	6.41	16.6	2.15	13.7	2.25	8.9
93.50	98.43	HC22-3196	3862.18	3566.8	295.38	1031.92	857	1720	186.5	706	97.3	141.5	12.35	60.4	7.22	34.9	6.16	15.6	2.06	12.9	2.29	8.9
98.43	103.35	HC22-3197	3886.64	3573	313.64	1037.33	870	1710	186	707	100	152.5	12.55	62.6	7.33	37	6.44	16.5	2.26	14.1	2.36	8.9
103.35	108.27	HC22-3198	3797.52	3498.7	298.82	1003.53	848	1690	182	682	96.7	143	12.1	61	7.03	35.8	6.19	15.9	2.07	13.45	2.28	8.4
108.27	113.19	HC22-3199	4254.26	3936.5	317.76	1129.5	957	1895	204	774	106.5	154.5	12.6	63.2	7.4	37.6	6.5	16.9	2.25	14.4	2.41	8.5
113.19	118.11	HC22-3200	4089.57	3769.5	320.07	1096.63	909	1810	198	750	102.5	154	12.55	63.9	7.73	38.4	6.92	17.5	2.36	14.3	2.41	8.7
118.11	123.03	HC22-3201	4419.66	4085	334.66	1179.81	994	1960	212	807	112	158	12.75	68.9	8.21	40.6	7.13	18.25	2.41	15.85	2.56	9
123.03	127.95	HC22-3202	3999.18	3685	314.18	1069.35	900	1760	194.5	729	101.5	150	13.1	64.4	7.35	37	6.62	16.85	2.21	14.25	2.4	8.7
127.95	132.87	HC22-3203	3878.74	3571.5	307.24	1035.93	869	1710	187.5	707	98	150.5	12.65	59.7	7.13	36.3	6.37	16.25	2.17	13.85	2.32	9.1
132.87	137.80	HC22-3204	3153.27	2900.2	253.07	841.24	699	1395	150.5	576	79.7	122.5	11.85	49.9	5.74	29.3	5.13	13.45	1.79	11.5	1.91	7.2
137.80	142.72	HC22-3205	3672.72	3375.1	297.62	977.97	824	1615	177.5	666	92.6	144.5	12.7	58.8	6.77	35.1	6.18	15.85	2.09	13.35	2.28	9.6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM010	*4,635,668.80*	*475,246.38*	*5,712.05*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
142.72	147.64	HC22-3206	3558.76	3260.3	298.46	949.7	794	1560	170.5	647	88.8	139.5	13.1	61.8	7.2	36.2	6.38	16.2	2.27	13.5	2.31	8.8
147.64	152.56	HC22-3207	3717.63	3410.1	307.53	996.69	832	1625	180	679	94.1	148	13.05	62.1	7.29	36.3	6.3	16.5	2.14	13.5	2.35	10.4
152.56	157.48	HC22-3208	3435.9	3148.6	287.3	919.12	761	1510	164.5	626	87.1	135	12.55	58.5	6.82	34.7	6.17	15.75	2.09	13.45	2.27	8.4
157.48	162.40	HC22-3209	3863.41	3548.9	314.51	1032.58	856	1705	186	703	98.9	152.5	13.1	62	7.38	37.3	6.4	16.95	2.27	14.3	2.31	9
162.40	167.32	HC22-3211	3575.11	3274.7	300.41	958.81	793	1565	172.5	653	91.2	146.5	12.55	58.3	7.11	35	6.33	16.2	2.17	13.95	2.3	9.3
167.32	172.24	HC22-3212	3493.19	3203.2	289.99	938.35	780	1525	167.5	639	91.7	144.5	12.05	54.8	6.65	33.5	5.95	15.3	2.03	13.15	2.06	9
172.24	177.17	HC22-3213	3658.25	3357.4	300.85	985.51	819	1595	177	672	94.4	148	12.5	58	6.81	35.3	6.52	16	2.09	13.35	2.28	9.1
177.17	182.09	HC22-3214	3508.33	3210.7	297.63	944.06	769	1540	167.5	642	92.2	144	12.5	58.5	6.86	35.5	6.21	15.8	2.17	13.8	2.29	9
182.09	187.01	HC22-3215	3487.48	3196.6	290.88	938.7	768	1530	168.5	641	89.1	144	12.05	55.9	6.7	33.4	6.13	15.35	2.07	13.05	2.23	10
187.01	191.93	HC22-3216	3613.17	3317.9	295.27	964.28	806	1590	174.5	655	92.4	140	13.2	59	7.08	35.3	6.17	16.1	2.08	14.1	2.24	9
191.93	196.85	HC22-3217	4062.34	3748	314.34	1079.56	913	1800	196	737	102	151.5	12.9	63.7	7.36	37.2	6.45	16.5	2.26	14.05	2.42	10.4
196.85	201.77	HC22-3218	4252.81	3899.5	353.31	1175.24	937	1840	207	802	113.5	161.5	14.4	74.3	9.04	43.7	7.87	19.95	2.77	16.9	2.88	7.3
201.77	206.69	HC22-3219	3994.36	3669.5	324.86	1108.76	869	1740	193.5	758	109	150.5	13.35	67.4	8.16	40.1	7.14	18.1	2.46	15.1	2.55	5.5
206.69	211.61	HC22-3220	3793.51	3479.5	314.01	1051.83	834	1640	184	717	104.5	146	13.65	63.8	7.73	38.6	6.83	17.1	2.34	15.4	2.56	5.8
211.61	216.54	HC22-3221	3835.11	3515.5	319.61	1069.62	833	1660	187	731	104.5	149	13.2	65.3	7.82	39.3	7	17.6	2.28	15.5	2.61	5.9
216.54	221.46	HC22-3222	3704.33	3381	323.33	1064.58	801	1560	195.5	723	101.5	160	12.75	63.3	7.28	37.3	6.57	16.8	2.23	14.7	2.4	4.1
221.46	226.38	HC22-3223	3694.51	3373.5	321.01	1063.25	810	1545	195	722	101.5	158.5	13.05	62.9	7.35	37.4	6.44	16.65	2.23	14.15	2.34	6.6
226.38	231.30	HC22-3224	3769.18	3455	314.18	1073.07	820	1605	205	726	99	153.5	13.35	63	7.27	35.8	6.41	16.15	2.2	14.25	2.25	5.9
231.30	236.22	HC22-3225	1807.86	1537.8	270.06	535.31	350	689	89.4	351	58.4	139.5	12.35	43.2	5.51	31	5.58	15.4	2.06	13.3	2.16	5.4
236.22	241.14	HC22-3226	1782.42	1518.7	263.72	526.36	348	679	89.5	345	57.2	137	11.75	42.6	5.46	29.2	5.54	14.7	2.01	13.3	2.16	3.9
241.14	246.06	HC22-3227	1590.58	1336	254.58	474.42	299	596	79.3	309	52.7	133.5	11.85	40.4	5.12	28.3	5.22	14.05	1.98	12.15	2.01	4.5
246.06	250.98	HC22-3228	1649.57	1389.4	260.17	490.17	310	624	82.2	319	54.2	135.5	11.95	41	5.37	29.4	5.5	14.65	1.99	12.7	2.11	5.5
250.98	255.91	HC22-3230	1837.29	1553.2	284.09	544.73	349	697	92	355	60.2	148.5	13.25	44.7	5.73	31.8	5.92	15.85	2.18	13.95	2.21	5.3
255.91	260.83	HC22-3231	1373.27	1149.4	223.87	409.74	259	510	67.7	267	45.7	117	11.65	34.1	4.44	24.9	4.7	12.8	1.69	10.8	1.79	4.7
260.83	265.75	HC22-3232	1532.97	1295.6	237.37	457.23	288	581	75.8	300	50.8	126	11.45	36.5	4.73	25.9	4.82	13.05	1.79	11.3	1.83	5.6
265.75	270.67	HC22-3233	1790.65	1534.2	256.45	525.8	349	693	89.7	346	56.5	133.5	11.75	41.3	5.2	28.4	5.3	14.4	1.96	12.65	1.99	4.2
270.67	275.59	HC22-3234	1326.98	1098.8	228.18	397.65	247	484	64.7	258	45.1	120	11.95	34.1	4.55	25.3	4.88	12.55	1.75	11.3	1.8	4.4
275.59	280.51	HC22-3235	1507.33	1272.5	234.83	446.22	290	567	74.3	292	49.2	124	11.4	35.6	4.72	26	4.84	13	1.84	11.5	1.93	5.2
280.51	285.43	HC22-3236	1575.01	1345.6	229.41	464.02	308	604	79.2	303	51.4	118.5	11.4	36.6	4.72	25.7	4.76	12.9	1.74	11.25	1.84	4.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM010	4,635,668.80	475,246.38	5,712.05	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-3237	1648.4	1408.9	239.5	480.35	320	640	82.3	315	51.6	125.5	12.1	37.5	4.85	26.6	4.95	13.15	1.79	11.2	1.86	4
290.35	295.28	HC22-3238	1312.83	1083.5	229.33	390.49	239	484	63.8	252	44.7	121	12	34	4.59	25.4	4.87	12.6	1.69	11.4	1.78	5.5
295.28	300.20	HC22-3239	1820.92	1552.1	268.82	540.61	353	694	91.6	355	58.5	141	11.9	42.6	5.51	30	5.46	14.85	2.07	13.25	2.18	5.9
300.20	305.12	HC22-3240	1401.58	1171.4	230.18	414.05	263	524	69	269	46.4	121	11.55	35	4.45	25.2	4.77	13.2	1.76	11.4	1.85	5.6
305.12	310.04	HC22-3241	1897.5	1613.4	284.1	557.66	367	726	94.6	366	59.8	149.5	12.05	44.5	5.76	31.5	5.89	15.9	2.28	14.35	2.37	5.7
310.04	314.96	HC22-3242	1687.79	1437.7	250.09	497.1	335	638	84.3	326	54.4	132	11.95	38.9	5	27.4	5.24	13.65	1.84	12.15	1.96	5.7
314.96	319.88	HC22-3243	1331.68	1112.5	219.18	389.83	251	500	65.3	252	44.2	115.5	11.25	33	4.33	24	4.53	12.4	1.68	10.8	1.69	4.3
319.88	324.80	HC22-3244	1459.73	1225.5	234.23	432.29	275	549	71.9	281	48.6	124	11.55	35.3	4.69	26.1	4.83	12.9	1.79	11.25	1.82	5.5
324.80	329.72	HC22-3245	1287.35	1061.9	225.45	384.41	237	470	63	247	44.9	119	11.6	33.4	4.51	25	4.74	12.65	1.77	10.95	1.83	5.1
329.72	334.65	HC22-3246	1761.69	1501.8	259.89	519.92	344	672	89	340	56.8	137	12.2	39.8	5.22	28.9	5.55	14.6	1.99	12.55	2.08	5.5
334.65	339.57	HC22-3247	1896.63	1628.4	268.23	552.16	375	737	95	363	58.4	140.5	12	42.3	5.46	30.3	5.53	14.65	2.06	13.25	2.18	4.9
339.57	344.49	HC22-3248	1666.7	1420	246.7	488.36	321	643	82.7	321	52.3	129	12.1	39	4.96	27.4	5.1	13.5	1.85	11.9	1.89	5
344.49	349.41	HC22-3250	1742.33	1494.1	248.23	509.69	340	677	87.1	335	55	131	11.6	38.5	5.09	27.5	5.21	13.7	1.85	11.9	1.88	5.4
349.41	354.33	HC22-3251	1671.71	1432.4	239.31	486.88	332	645	83	320	52.4	124.5	12.1	38	4.78	26.7	4.89	13.25	1.8	11.4	1.89	5.1
354.33	359.25	HC22-3252	1302.96	1081.8	221.16	385.98	244	481	63.6	250	43.2	116.5	11.25	33.3	4.48	24.7	4.58	12.05	1.76	10.75	1.79	4.2
359.25	364.17	HC22-3253	1699.78	1462.6	237.18	495.21	335	664	85.7	326	51.9	121.5	12.4	38.5	4.91	26.7	4.91	13.2	1.77	11.4	1.89	5.3
364.17	369.09	HC22-3254	1714.66	1480.6	234.06	488.95	322	703	80.3	323	52.3	116	12.6	37.6	5.15	28.2	4.99	13.95	1.81	11.95	1.81	5.7
369.09	374.02	HC22-3255	1640.91	1396.6	244.31	476.67	298	656	76.9	315	50.7	123.5	11.95	38.7	5.17	28.9	5.52	14.25	1.93	12.4	1.99	5.5
374.02	378.94	HC22-3256	1631.9	1394.5	237.4	472.16	298	658	75.7	312	50.8	118.5	12.5	38.1	5.26	28.4	5.18	13.9	1.78	11.85	1.93	5.3
378.94	383.86	HC22-3257	1383.5	1155.9	227.6	407.7	247	534	64.3	264	46.6	114	12.2	35	5.1	27.7	5.03	13.3	1.74	11.75	1.78	6.2
383.86	388.78	HC22-3258	1448.96	1218.2	230.76	427.11	262	561	67	279	49.2	117.5	12.05	35.4	5.01	26.9	5.1	13.5	1.76	11.7	1.84	4.8
388.78	393.70	HC22-3259	1867.6	1613.4	254.2	534.61	346	769	87	354	57.4	127.5	12.75	41.1	5.61	30.6	5.47	14.8	1.88	12.45	2.04	6.4
393.70	398.62	HC22-3260	1476.49	1236.1	240.39	432.13	265	573	68.5	281	48.6	122	12.55	36.4	5.03	29	5.12	14.8	1.82	11.7	1.97	5
398.62	403.54	HC22-3261	1357.26	1147.4	209.86	387.87	243	546	61.7	254	42.7	105.5	11.95	32.4	4.37	25.1	4.2	12.5	1.52	10.6	1.72	5.6
403.54	408.46	HC22-3262	1489.42	1254.8	234.62	438.9	279	569	71	289	46.8	119	13.25	36.4	5	27.1	5.12	13.55	1.78	11.45	1.97	4.9
408.46	413.39	HC22-3263	1510.19	1282.6	227.59	442.98	282	590	70.8	291	48.8	114.5	12.7	35.3	4.88	27.5	4.89	13.1	1.76	11.15	1.81	6.6
413.39	418.31	HC22-3264	1396.25	1183.6	212.65	403.88	258	551	64.9	266	43.7	107	11.7	32.9	4.48	24.8	4.61	12.95	1.7	10.8	1.71	3.8
418.31	423.23	HC22-3265	1346.91	1142.8	204.11	390.92	253	527	63.7	257	42.1	103	11.8	31.8	4.32	23.8	4.35	11.65	1.6	10.15	1.64	4.7
423.23	428.15	HC22-3266	1436.18	1220.6	215.58	418.86	269	562	67.7	275	46.9	109.5	11.75	32.9	4.56	24.7	4.55	13	1.63	11.1	1.89	5.3

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM010	4,635,668.80	475,246.38	5,712.05	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-3267	1512.3	1289.7	222.6	438.63	283	598	71.2	290	47.5	113	12.1	34.5	4.63	25.3	4.64	13.25	1.68	11.5	2	3.8
433.07	437.99	HC22-3268	1697.13	1480.4	216.73	482.56	327	701	79.4	322	51	106.5	12.2	36.4	4.66	25.5	4.65	12.65	1.62	10.8	1.75	6.3
437.99	442.91	HC22-3269	1418.1	1217.8	200.3	413.42	265	568	67.6	272	45.2	99.1	11.55	32	4.32	24.3	4.4	11.5	1.56	9.92	1.65	5.9
442.91	447.83	HC22-3271	2047.55	1797.8	249.75	577.22	397	858	96.8	387	59	125	12.9	41	5.52	28.9	5.24	15.05	1.9	12.15	2.09	6.2
447.83	452.76	HC22-3272	1777.91	1549.9	228.01	501.06	334	746	83.4	334	52.5	114	12.25	37.2	4.96	26.2	4.84	13.45	1.75	11.45	1.91	3.9
452.76	457.68	HC22-3273	1348.65	1149.1	199.55	392.77	252	532	63.2	259	42.9	100.5	11.25	31.2	4.17	23.5	4.21	11.6	1.58	9.99	1.55	4.9
457.68	462.60	HC22-3274	1363.04	1149	214.04	396.99	248	533	63.9	260	44.1	109	11.7	32.5	4.59	24.4	4.56	12.55	1.68	11.3	1.76	4.9
462.60	467.52	HC22-3275	1465.53	1252.1	213.43	424.26	276	582	69.2	278	46.9	106	11.7	34.1	4.66	25.5	4.66	12.45	1.69	10.85	1.82	6.4
467.52	472.44	HC22-3276	1487.01	1276.1	210.91	426.28	281	598	69.8	282	45.3	106	11.85	33	4.58	24.6	4.54	12.4	1.71	10.5	1.73	5.1
472.44	477.36	HC22-3277	1311.92	1120.3	191.62	377.71	247	522	61.4	251	38.9	95.5	11.55	30	4.01	22.4	4.12	11.45	1.44	9.5	1.65	5.3
477.36	482.28	HC22-3278	1689.64	1468	221.64	479.62	321	698	78.6	321	49.4	110.5	11.8	35.6	4.72	25.9	4.77	13.35	1.72	11.35	1.93	5
482.28	487.20	HC22-3279	1467.83	1260.4	207.43	418.08	278	593	69.1	277	43.3	103.5	11.75	32.8	4.48	24.2	4.43	12.35	1.64	10.4	1.88	4.5
487.20	492.13	HC22-3280	1283.59	1085.5	198.09	373.4	236	504	60.6	243	41.9	99.5	10.7	30.8	4.3	23.6	4.4	11.85	1.55	9.74	1.65	5.3

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM011	*4,635,586.47*	*475,454.96*	*5,691.05*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
0.00	4.92	HC22-3281	312.69	258.42	54.27	83.31	60.5	121.5	13.85	53.5	9.07	30.1	1.67	7.16	1.04	5.85	1.14	3.42	0.47	2.92	0.5	10.7
4.92	9.84	HC22-3282	699.3	613.4	85.9	195.68	140	290	33.4	130.5	19.5	44.8	2.93	13.5	1.83	10.45	1.8	4.9	0.71	4.27	0.71	11.4
9.84	14.76	HC22-3283	3309.23	3026.7	282.53	909.42	689	1470	161	620	86.7	135.5	11	56.3	7.02	34.7	6.06	15.05	2	12.85	2.05	5.8
14.76	19.69	HC22-3284	3613.79	3295.4	318.39	1005.59	757	1580	177	687	94.4	152	12.25	62.9	7.99	39.2	6.93	17.9	2.35	14.45	2.42	5
19.69	24.61	HC22-3285	3799.05	3489.8	309.25	1054.8	806	1675	184.5	726	98.3	145.5	12.8	63.4	7.7	38.3	6.5	17.05	2.15	13.6	2.25	5.6
24.61	29.53	HC22-3286	4077.07	3735	342.07	1123.06	878	1785	196.5	771	104.5	161	13.4	69.7	8.46	42.6	7.25	18.8	2.38	15.8	2.68	4.9
29.53	34.45	HC22-3287	4070.98	3729	341.98	1119.68	876	1785	195.5	767	105.5	162.5	13.35	68	8.38	43.3	7.24	19.1	2.39	15.2	2.52	6.3
34.45	39.37	HC22-3288	3877.04	3541.5	335.54	1061.79	839	1690	187.5	724	101	161	13.95	66.5	8.09	41.2	7.03	18.25	2.36	14.65	2.51	6
39.37	44.29	HC22-3290	4172.75	3812	360.75	1150.66	909	1805	201	787	110	172.5	14	72.8	8.46	44.2	7.55	19.5	2.49	16.55	2.7	4.5
44.29	49.21	HC22-3291	3994.99	3664	330.99	1106.28	866	1740	194	759	105	159.5	13.2	66.1	7.88	40.4	6.97	17.15	2.28	15.1	2.41	5.1
49.21	54.13	HC22-3292	3869.61	3543	326.61	1064.53	825	1700	187	731	100	160	12.4	64.3	7.93	38.6	6.91	17	2.32	14.75	2.4	3.9
54.13	59.06	HC22-3293	3833.64	3508.5	325.14	1064.79	806	1685	187	730	100.5	156	12.8	64.9	7.79	39.5	6.98	17.9	2.25	14.6	2.42	4
59.06	63.98	HC22-3294	3829.1	3490	339.1	1061.64	822	1655	186	726	101	165	13.1	66.4	7.84	40.8	7.12	18.3	2.29	15.65	2.6	5.2
63.98	68.90	HC22-3295	3841.92	3521.8	320.12	1061.34	832	1675	185	731	98.8	154.5	12.95	62.5	7.74	38.8	6.83	17.25	2.29	14.95	2.31	6
68.90	73.82	HC22-3296	3880.34	3550.5	329.84	1080.39	843	1675	188.5	743	101	160	12.9	64.9	7.89	40	7.01	17.75	2.25	14.75	2.39	5.4
73.82	78.74	HC22-3297	3656.89	3343.1	313.79	1020.83	768	1600	179	700	96.1	151	12.8	62	7.53	38.2	6.66	16.7	2.13	14.4	2.37	5.9
78.74	83.66	HC22-3298	4044.24	3711.5	332.74	1108.62	881	1770	195.5	759	106	161	12.8	66.1	7.92	40.2	7	17.6	2.39	15.25	2.48	5.1
83.66	88.58	HC22-3299	3662	3352.5	309.5	1009.21	768	1620	177.5	692	95	149.5	12.5	60.5	7.31	37.4	6.76	16.5	2.2	14.5	2.33	4.1
88.58	93.50	HC22-3300	3732.24	3405.1	327.14	1032.49	770	1650	179	707	99.1	159	12.65	63.4	7.69	39.7	7.08	17.25	2.37	15.5	2.5	5.6
93.50	98.43	HC22-3301	3424.96	3117.9	307.06	954.96	707	1500	166	652	92.9	149	12.3	59.4	7.06	37	6.59	16.85	2.17	14.35	2.34	6.3
98.43	103.35	HC22-3302	4046.45	3683	363.45	1115.73	854	1765	192	763	109	180.5	13.9	67.9	8.43	43.3	7.87	19.55	2.59	16.75	2.66	6.1
103.35	108.27	HC22-3303	3725.58	3399.5	326.08	1040.72	796	1610	180	714	99.5	159	13.3	62.4	7.72	39.5	6.81	17.75	2.33	14.85	2.42	4.6
108.27	113.19	HC22-3304	3724.86	3405	319.86	1046.75	785	1620	181.5	716	102.5	155	12.65	62.3	7.55	39.2	6.89	17.2	2.3	14.45	2.32	6.1
113.19	118.11	HC22-3305	4895.59	4484.5	411.09	1370	1085	2090	239	939	131.5	196.5	17.9	80.5	10.1	50.4	8.96	22	2.9	18.75	3.08	6.5
118.11	123.03	HC22-3306	3896.58	3577.5	319.08	1088.58	825	1710	190.5	747	105	154.5	12.75	62.6	7.58	38.5	6.9	16.95	2.22	14.6	2.48	4
123.03	127.95	HC22-3307	3961.17	3631.5	329.67	1113.31	831	1735	196	764	105.5	159	12.65	64.9	7.81	40	6.95	18.2	2.34	15.4	2.42	3.9
127.95	132.87	HC22-3308	3794.71	3480	314.71	1069.08	796	1660	188.5	735	100.5	152	12.4	62.3	7.68	37.4	6.8	17.05	2.21	14.5	2.37	5.2
132.87	137.80	HC22-3310	4199.99	3847.5	352.49	1172.19	911	1815	205	803	113.5	170.5	12.95	70.6	8.39	42.3	7.45	18.6	2.49	16.55	2.66	5.1
137.80	142.72	HC22-3311	3490.76	3181.8	308.96	980.07	721	1525	170	671	94.8	148.5	12.7	61.1	7.17	37.1	6.64	16.7	2.19	14.4	2.46	5.3

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM011	*4,635,586.47*	*475,454.96*	*5,691.05*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
142.72	147.64	HC22-3312	3706.72	3394.3	312.42	1040.08	780	1620	180.5	714	99.8	150	12.6	60.9	7.48	38.3	6.71	17.45	2.22	14.4	2.36	4.7
147.64	152.56	HC22-3313	3390.71	3083.2	307.51	948.34	704	1475	164.5	649	90.7	151.5	12.55	57.9	7.14	37	6.54	16.2	2.13	14.3	2.25	5.8
152.56	157.48	HC22-3314	4052.59	3700.5	352.09	1137.34	859	1755	199	778	109.5	170.5	14.35	68	8.44	42.4	7.68	19	2.5	16.5	2.72	5.8
157.48	162.40	HC22-3315	3487.57	3175.4	312.17	976.77	723	1520	170	670	92.4	153	12.5	59.6	7.27	37.1	6.69	16.95	2.25	14.45	2.36	5.3
162.40	167.32	HC22-3316	3348.17	3054.7	293.47	940.28	702	1455	164	642	91.7	141	12.9	57.3	6.88	35.7	6.3	15.65	2.07	13.5	2.17	4.8
167.32	172.24	HC22-3317	3343.9	3046.9	297	932.96	701	1455	164	636	90.9	144.5	12.85	57.3	7.06	35	6.22	16.45	2.17	13.15	2.3	4.6
172.24	177.17	HC22-3318	3737.63	3404.5	333.13	1051.32	781	1620	183	719	101.5	162.5	12.65	64.1	7.92	39.9	7.06	18.1	2.36	16.05	2.49	4.1
177.17	182.09	HC22-3319	3720.48	3393.7	326.78	1037.31	788	1615	182	709	99.7	160.5	13.25	62.4	7.61	39	6.83	17.3	2.28	15.3	2.31	5
182.09	187.01	HC22-3320	3412.74	3114.4	298.34	957.27	714	1485	166.5	656	92.9	146	12.35	57.6	6.77	35.1	6.22	16.05	2.12	13.9	2.23	5.7
187.01	191.93	HC22-3321	3527.1	3219.2	307.9	987.02	746	1530	172.5	678	92.7	148.5	12.95	60	7.22	36.6	6.51	17	2.24	14.5	2.38	4.8
191.93	196.85	HC22-3322	3587.21	3282.4	304.81	998.66	777	1550	176.5	685	93.9	147	12.4	60.4	7.26	36	6.63	16.5	2.1	14.15	2.37	6.2
196.85	201.77	HC22-3323	3509.42	3207.7	301.72	976.52	744	1530	171.5	671	91.2	146.5	12.3	59.5	7.22	35.6	6.35	16.2	2.04	13.65	2.36	4.4
201.77	206.69	HC22-3324	3696.58	3387.8	308.78	1028.23	785	1620	182	705	95.8	147.5	12.1	62.6	7.23	38.2	6.67	16.15	2.06	13.95	2.32	5.5
206.69	211.61	HC22-3325	3713.55	3395.6	317.95	1033.47	798	1610	179.5	711	97.1	153.5	12.55	62.8	7.57	38.3	6.87	16.9	2.22	14.85	2.39	5.9
211.61	216.54	HC22-3326	3889.99	3547.5	342.49	1060.42	870	1665	184	727	101.5	167.5	13.15	69.2	8.12	39.8	7.13	17.1	2.41	15.5	2.58	7
216.54	221.46	HC22-3327	3300.17	2999	301.17	903.39	733	1405	156	619	86	145.5	13.1	61	7.09	35.3	6.21	15.05	2.17	13.55	2.2	4.7
221.46	226.38	HC22-3328	3293.27	3009.7	283.57	894.14	731	1425	155.5	612	86.2	136.5	12.4	57.6	6.74	33.7	5.9	13.95	1.92	12.7	2.16	4.4
226.38	231.30	HC22-3329	3444.11	3134.1	310.01	932.16	761	1485	162	637	89.1	151.5	12.8	61.8	7.26	36.8	6.37	15.6	2.04	13.55	2.29	5.9
231.30	236.22	HC22-3331	3522.9	3217.9	305	963.63	782	1515	167.5	660	93.4	149	12.45	61.4	7.33	35.4	6.19	15.4	2.1	13.5	2.23	5.9
236.22	241.14	HC22-3332	3175.55	2888.1	287.45	867.04	701	1360	151.5	594	81.6	141	12.1	56.8	6.64	33.3	5.85	14.35	2.01	13.25	2.15	5.5
241.14	246.06	HC22-3333	2798.66	2543.4	255.26	760.53	623	1195	132.5	521	71.9	126	12.15	49.7	6.13	29	5.09	12.3	1.79	11.2	1.9	4.4
246.06	250.98	HC22-3334	3534.31	3223.5	310.81	965.28	792	1510	169	660	92.5	151.5	13.25	62.8	7.28	36.5	6.5	15.25	2.08	13.35	2.3	6.4
250.98	255.91	HC22-3335	3615.05	3291.8	323.25	986.83	810	1540	172.5	675	94.3	157	13.35	66	7.63	37.4	6.77	16.3	2.23	14.15	2.42	5.9
255.91	260.83	HC22-3336	3009.74	2744.9	264.84	816.86	669	1295	142.5	558	80.4	130.5	11.75	52.4	6.06	29.9	5.3	13.4	1.82	11.75	1.96	5
260.83	265.75	HC22-3337	3081.68	2788.3	293.38	838.09	666	1325	143.5	570	83.8	145	12.55	56	6.69	34.1	6.04	15.25	2.02	13.6	2.13	5.4
265.75	270.67	HC22-3338	3445.03	3156.3	288.73	947.03	775	1475	165.5	652	88.8	139	12.55	59.8	6.83	33.9	5.92	14.2	1.98	12.5	2.05	4
270.67	275.59	HC22-3339	3211.1	2940	271.1	873.64	704	1400	151	602	83	131	12.9	55.3	6.44	31.2	5.36	13.2	1.8	11.85	2.05	3.3
275.59	280.51	HC22-3340	2908.07	2653.7	254.37	794.67	649	1245	138.5	546	75.2	124.5	11.75	50.6	5.97	29	5.22	12.55	1.78	11.15	1.85	4.3
280.51	285.43	HC22-3341	3025.28	2782	243.28	816.31	679	1320	143.5	563	76.5	117	11.55	50.4	5.61	27.7	4.81	12.45	1.58	10.4	1.78	5.1

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM011	4,635,586.47	475,454.96	5,691.05	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-3342	3258.96	2985.4	273.56	889.13	734	1400	157	610	84.4	132.5	12.85	55.5	6.53	31.2	5.63	13.4	1.8	12.1	2.05	4.8
290.35	295.28	HC22-3343	3652.75	3352.5	300.25	997.85	811	1585	175.5	685	96	145	14.1	61.7	7.05	34.3	6.15	15.1	2.08	12.55	2.22	5.9
295.28	300.20	HC22-3344	3338.35	3062.4	275.95	916.43	739	1445	159.5	628	90.9	134	13.1	55.5	6.63	31.4	5.62	13.8	1.91	12.05	1.94	5.8
300.20	305.12	HC22-3345	3741.37	3439.6	301.77	1021	835	1625	180	702	97.6	146	13.4	62.7	7.3	34.1	6.08	14.75	2.05	13.25	2.14	5.2
305.12	310.04	HC22-3346	3159.54	2896.9	262.64	867.61	701	1365	151	596	83.9	126	12.4	53.7	6.21	30.5	5.38	13.35	1.7	11.4	2	5.2
310.04	314.96	HC22-3347	3365.87	3084.7	281.17	923.13	745	1455	160.5	634	90.2	137	13.15	57.1	6.33	32.1	5.73	13.65	1.86	12.2	2.05	3.7
314.96	319.88	HC22-3348	3025.03	2785	240.03	823.27	665	1330	144.5	568	77.5	115	12.45	48.8	5.57	27.7	4.86	12.1	1.55	10.35	1.65	5.8
319.88	324.80	HC22-3350	3936.59	3631	305.59	1066.4	872	1735	186.5	735	102.5	148	12.6	64.2	7.3	35.1	6.05	15.1	2.08	13	2.16	5.5
324.80	329.72	HC22-3351	3275.85	3005.2	270.65	889.09	724	1430	157	608	86.2	129.5	13.1	55.6	6.29	31.6	5.29	13.45	1.82	12.05	1.95	5.8
329.72	334.65	HC22-3352	3010.09	2756.5	253.59	819.79	662	1310	142.5	564	78	122	13	51	5.89	29.4	5.15	12.65	1.66	11	1.84	6
334.65	339.57	HC22-3353	3580.5	3290.1	290.4	973.59	792	1565	171.5	670	91.6	139	12.4	61	6.99	33.5	6.07	14.4	1.95	12.9	2.19	6.6
339.57	344.49	HC22-3354	3204.34	2947.6	256.74	868.15	700	1415	152	599	81.6	121.5	12.85	53.6	6.25	29.3	5.36	12.75	1.71	11.45	1.97	5.9
344.49	349.41	HC22-3355	3529.69	3285.2	244.49	943.04	786	1590	169.5	650	89.7	113.5	12	54.9	6.04	27.8	4.79	11.65	1.52	10.45	1.84	5.3
349.41	354.33	HC22-3356	4053.53	3742	311.53	1099.75	905	1780	194.5	757	105.5	148.5	12.65	67.5	7.25	35.5	6.24	15.45	2.21	13.9	2.33	5.2
354.33	359.25	HC22-3357	3899.26	3587	312.26	1062.85	868	1700	185.5	731	102.5	150.5	12.9	64.7	7.45	36.4	6.54	15.4	2.08	13.9	2.39	5.8
359.25	364.17	HC22-3358	3914.96	3602	312.96	1078.56	877	1690	188.5	744	102.5	149.5	12.95	66.8	7.46	36.1	6.37	15.45	2.12	13.9	2.31	4.8
364.17	369.09	HC22-3359	4245.23	3919.5	325.73	1157.05	953	1855	204	798	109.5	155.5	13	70.8	7.85	37.7	6.63	15.35	2.16	14.4	2.34	5.9
369.09	374.02	HC22-3360	3857.65	3548.5	309.15	1063.34	854	1675	185.5	731	103	148.5	13.3	64.3	7.34	36.5	6.31	14.8	2.03	13.6	2.47	5.9
374.02	378.94	HC22-3361	3340.16	3054.9	285.26	923.52	726	1445	160	635	88.9	137	12.95	58.6	6.62	33	5.93	14.5	1.98	12.5	2.18	5.8
378.94	383.86	HC22-3362	3126.67	2867.8	258.87	813.8	696	1395	149.5	544	83.3	120	12.45	53.4	6.4	30.6	5.65	14.55	1.87	12	1.95	6.9
383.86	388.78	HC22-3363	4223.37	3908.5	314.87	1097.54	951	1905	206	737	109.5	146	13.1	67.6	7.84	37.2	6.72	16.95	2.38	14.65	2.43	8.3
388.78	393.70	HC22-3364	3868.98	3577	291.98	998.36	885	1735	188.5	670	98.5	135	13.85	61.8	7.16	34.2	6.33	15.6	2.17	13.55	2.32	8.5
393.70	398.62	HC22-3365	3380.15	3112.9	267.25	874.48	766	1510	162.5	587	87.4	124	13.15	55.1	6.38	31.2	5.7	14.8	1.94	12.8	2.18	8.4
398.62	403.54	HC22-3366	3239.49	2963.6	275.89	844.85	723	1435	157	562	86.6	129	13	56.4	6.75	32.5	6.05	14.95	1.95	13.1	2.19	8.4
403.54	408.46	HC22-3367	3082.53	2823.5	259.03	799.8	686	1375	147.5	534	81	120	13.15	52.8	6.3	31	5.69	14.25	1.91	11.95	1.98	8
408.46	413.39	HC22-3368	2768.14	2533	235.14	716.3	610	1240	134	476	73	110.5	12	47	5.7	27.6	5.02	12.95	1.76	10.85	1.76	6.6
413.39	418.31	HC22-3370	3643.31	3352.7	290.61	944.35	814	1635	175	633	95.7	136	12.85	60.7	7.15	33.5	6.35	15.85	2.14	13.85	2.22	8.4
418.31	423.23	HC22-3371	2851.84	2613.8	238.04	741.52	636	1270	138	494	75.8	113	10.8	46.9	5.62	28.1	5.07	13.15	1.75	11.75	1.9	6.7
423.23	428.15	HC22-3372	3179.06	2917.2	261.86	827.71	712	1415	153.5	553	83.7	121.5	13.05	53	6.41	31.1	5.56	14.45	1.86	12.75	2.18	7.5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM011	*4,635,586.47*	*475,454.96*	*5,691.05*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
428.15	433.07	HC22-3373	3433.97	3153.5	280.47	894.83	769	1530	166	598	90.5	131.5	13.15	56.9	6.73	33.6	5.99	14.9	2.04	13.45	2.21	8.2
433.07	437.99	HC22-3374	3173.1	2919.9	253.2	823.43	716	1415	154	552	82.9	119.5	12.5	51.8	6.13	28.4	5.39	13.85	1.81	11.9	1.92	7
437.99	442.91	HC22-3375	2610.17	2389.8	220.37	677.55	578	1165	125	453	68.8	103	12.35	43.6	5.25	25.5	4.59	12.25	1.59	10.5	1.74	7.2
442.91	447.83	HC22-3376	2644.38	2415.6	228.78	685.48	587	1175	126.5	457	70.1	108	12.3	44.8	5.48	26.4	4.78	12.45	1.72	11.1	1.75	7.2
447.83	452.76	HC22-3377	3154.24	2905.1	249.14	822.26	708	1410	153.5	551	82.6	116.5	13.05	50.4	5.86	29.3	5.3	13.35	1.82	11.65	1.91	7.9
452.76	457.68	HC22-3378	3356.06	3087.5	268.56	856.53	759	1510	159.5	572	87	125.5	12.95	54.9	6.43	31.6	5.79	14.8	1.98	12.5	2.11	8.2
457.68	462.60	HC22-3379	3202.91	2950.3	252.61	816.82	734	1435	152.5	547	81.8	120	12.2	50.9	6.02	29.5	5.39	13.3	1.89	11.45	1.96	6.9
462.60	467.52	HC22-3380	2860.1	2623.4	236.7	741.6	635	1280	137	495	76.4	112.5	13.05	46.2	5.6	27.6	4.89	12.45	1.69	10.9	1.82	7
467.52	472.44	HC22-3381	2771.37	2536.3	235.07	718.66	616	1235	134	478	73.3	111	12.85	45.3	5.46	27.9	5.11	12.9	1.7	11.05	1.8	7.6
472.44	477.36	HC22-3382	2450.27	2237.6	212.67	636.18	536	1095	118	424	64.6	100.5	11.85	41.2	4.98	24.6	4.49	11.25	1.64	10.45	1.71	6.7
477.36	482.28	HC22-3383	3312.77	3030.8	281.97	861.28	745	1465	160.5	573	87.3	131.5	13.3	56.8	6.88	33.6	6.02	15.7	2.13	13.8	2.24	8.5
482.28	487.20	HC22-3384	3214.65	2943.4	271.25	834.11	718	1430	155.5	556	83.9	127	13.3	53.9	6.51	32.2	5.82	15.05	2.05	13.3	2.12	8
487.20	492.13	HC22-3385	3599.75	3314	285.75	936.82	802	1615	174	627	96	135	13.25	58.3	6.82	33	6.13	15.45	2.1	13.5	2.2	8.5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM012	*4,635,428.20*	*475,632.59*	*5,679.78*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-3386	1070.08	948.4	121.68	280.57	214	471	50.7	182	30.7	60.6	4.31	21.3	2.82	14.35	2.71	7	0.98	6.6	1.01	9.7
4.92	9.84	HC22-3387	2837.6	2590.2	247.4	732.28	643	1250	135.5	483	78.7	117	10.2	51.1	6.18	28.9	5.4	14	1.73	11.15	1.74	6.1
9.84	14.76	HC22-3388	2841.74	2601.8	239.94	731.86	645	1260	135.5	485	76.3	112	10.3	50	5.96	29.1	5.23	13	1.74	10.8	1.81	5.8
14.76	19.69	HC22-3389	3135.76	2853.2	282.56	816.94	707	1370	150.5	539	86.7	133.5	10.95	58.2	6.94	33.8	6.2	15.5	2.09	13.2	2.18	6.7
19.69	24.61	HC22-3391	3647.82	3338.6	309.22	949.79	814	1620	176.5	631	97.1	145	11.35	65	7.79	37.4	6.76	17.05	2.29	14.25	2.33	6.1
24.61	29.53	HC22-3392	3739.91	3411.9	328.01	962.57	832	1665	178	637	99.9	155.5	11.6	67.5	7.97	39.7	7.14	18.35	2.4	15.4	2.45	6
29.53	34.45	HC22-3393	2836.85	2567.1	269.75	725.82	630	1250	132	478	77.1	130	8.82	52.7	6.42	32.3	5.98	15.35	2.14	13.9	2.14	5.5
34.45	39.37	HC22-3394	3251.19	2957.6	293.59	839.64	715	1445	153.5	556	88.1	141.5	10.65	58.7	7.14	34.9	6.53	16.2	2.14	13.55	2.28	6.2
39.37	44.29	HC22-3395	3538.48	3230.2	308.28	915.69	794	1565	167	606	98.2	148	10.8	61.9	7.69	36.8	6.84	17.2	2.3	14.4	2.35	6.5
44.29	49.21	HC22-3396	3410.88	3107.1	303.78	880.9	760	1510	162.5	582	92.6	144.5	11.15	61.7	7.4	36.4	6.64	17.1	2.27	14.3	2.32	5.7
49.21	54.13	HC22-3397	3521.78	3209.1	312.68	908.72	781	1565	167.5	599	96.6	150	10.95	62.4	7.62	38	6.84	17.45	2.35	14.6	2.47	6.3
54.13	59.06	HC22-3398	3720.62	3383	337.62	1035.19	826	1570	179	706	102	169	11.45	65.4	7.89	40.3	7.07	17.2	2.3	14.7	2.31	6.8
59.06	63.98	HC22-3399	3845.59	3502.5	343.09	1076.33	860	1615	187	733	107.5	173	11.5	65.6	7.93	40.9	7.05	17.45	2.43	14.9	2.33	6.8
63.98	68.90	HC22-3400	3655.27	3324.8	330.47	989.39	786	1595	186	664	93.8	167	11.2	63	7.69	37.9	6.86	17	2.42	15	2.4	4.1
68.90	73.82	HC22-3401	3579.74	3247.7	332.04	971.3	778	1545	183	648	93.7	166	11.55	63.6	7.8	38.8	7	17.5	2.39	15	2.4	4
73.82	78.74	HC22-3402	3283.43	2977.9	305.53	895.36	710	1415	166	600	86.9	154	10.55	57.9	7.16	35.3	6.5	15.8	2.22	13.9	2.2	4.2
78.74	83.66	HC22-3403	3585.12	3251.7	333.42	973.26	785	1540	185	648	93.7	167.5	11.35	63.7	7.76	38.8	7.06	17.2	2.44	15.2	2.41	3.8
83.66	88.58	HC22-3404	3731.62	3392.5	339.12	1046.5	825	1570	181.5	711	105	169	11.55	66.5	7.9	41.1	7.03	17	2.35	14.35	2.34	7.4
88.58	93.50	HC22-3405	3516.92	3198.9	318.02	988.94	791	1465	171.5	673	98.4	158	10.8	61.9	7.44	38.6	6.58	15.9	2.31	14.15	2.34	6.9
93.50	98.43	HC22-3406	3743.51	3408	335.51	1051.91	833	1570	182.5	717	105.5	169	11.15	64.6	7.61	39.3	6.79	17.25	2.31	15.1	2.4	7.3
98.43	103.35	HC22-3407	3809.71	3462.5	347.21	1079.34	843	1590	185	736	108.5	172.5	11.1	68.4	8.04	41.8	7.02	17.85	2.49	15.45	2.56	6.2
103.35	108.27	HC22-3408	3807.99	3459.5	348.49	1068.75	856	1585	186	724	108.5	173	11.7	67.5	8.15	42.1	7.38	17.75	2.43	16	2.48	6.8
108.27	113.19	HC22-3410	3816.73	3483	333.73	1062.89	867	1600	185.5	727	103.5	166.5	11.3	65.3	7.49	39.4	6.84	17.15	2.33	14.95	2.47	7.7
113.19	118.11	HC22-3411	4428.8	4035	393.8	1238.75	982	1870	216	848	119	198.5	11.45	76.8	8.85	46.9	8.09	19.85	2.87	17.6	2.89	8.1
118.11	123.03	HC22-3412	3742.74	3386	356.74	1056.8	820	1560	181.5	718	106.5	181	11.15	67	8.1	42.7	7.19	18.7	2.49	15.9	2.51	7.5
123.03	127.95	HC22-3413	3754.06	3396.5	357.56	1054.51	828	1565	180	719	104.5	183	11.25	66.6	8.21	42.8	7.32	17.75	2.54	15.65	2.44	7.9
127.95	132.87	HC22-3414	3998.72	3638.5	360.22	1120.2	885	1685	193.5	763	112	181	11.1	69	8.3	43.4	7.53	18.65	2.49	16.25	2.5	6.9
132.87	137.80	HC22-3415	3967.7	3624	343.7	1111.57	902	1660	193	759	110	171.5	10.4	66.9	7.97	41.6	7.09	17.7	2.42	15.6	2.52	7
137.80	142.72	HC22-3416	3916.94	3558.5	358.44	1094.88	865	1650	189	745	109.5	180	11.05	68.5	8.18	43.2	7.41	18.7	2.52	16.3	2.58	6.3

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM012	*4,635,428.20*	*475,632.59*	*5,679.78*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
142.72	147.64	HC22-3417	3849.15	3521	328.15	1080.57	862	1625	186.5	741	106.5	163.5	11.25	64.2	7.57	39	6.65	16.25	2.25	15.05	2.43	7.2
147.64	152.56	HC22-3418	3436.18	3121.1	315.08	970.5	735	1460	166	664	96.1	157.5	10.9	61.5	7.2	37.2	6.5	15.85	2.19	14.05	2.19	6.3
152.56	157.48	HC22-3419	2433.82	2200.8	233.02	688.58	530	1015	116	470	69.8	114.5	11.25	44.7	5.38	27.4	4.68	11.4	1.56	10.45	1.7	7.2
157.48	162.40	HC22-3420	3611.89	3321.4	290.49	1010.34	808	1545	176	693	99.4	142	10.7	59.5	6.84	35.1	5.88	14.15	2.01	12.4	1.91	7
162.40	167.32	HC22-3421	3777.92	3446	331.92	1054.14	843	1595	183	722	103	168	11.1	63.8	7.54	38.6	6.73	16.55	2.22	15	2.38	7.4
167.32	172.24	HC22-3422	3662.83	3338.5	324.33	1022.72	812	1550	178	697	101.5	163.5	11.1	62.1	7.42	38.8	6.7	16.25	2.24	14	2.22	6.4
172.24	177.17	HC22-3423	3724.66	3385.5	339.16	1052.38	832	1550	181.5	716	106	169.5	11.3	65.9	7.88	41	6.92	17.3	2.34	14.65	2.37	7.2
177.17	182.09	HC22-3424	3782.94	3448	334.94	1058.1	847	1590	184.5	720	106.5	169.5	11.15	64.8	7.5	39.6	6.7	16.6	2.26	14.4	2.43	6.6
182.09	187.01	HC22-3425	3747.11	3417.5	329.61	1053.52	831	1580	183	721	102.5	163	11.65	65.9	7.52	39.5	6.62	16.4	2.29	14.4	2.33	6.6
187.01	191.93	HC22-3426	4062.63	3719	343.63	1132.92	910	1725	198	775	111	170	11.75	69.7	8.02	40.9	7	16.95	2.34	14.6	2.37	6.8
191.93	196.85	HC22-3427	2030.89	1851.8	179.09	567.08	437	873	99.2	387	55.6	88.3	6.51	35.9	4.18	21.1	3.69	9.2	1.22	7.73	1.26	4.5
196.85	201.77	HC22-3428	3726.54	3393.5	333.04	1040.12	831	1570	181	708	103.5	166.5	10.95	64.6	7.72	39.9	6.98	17.2	2.35	14.6	2.24	7.8
201.77	206.69	HC22-3430	3575.86	3279.1	296.76	992.25	804	1525	172	683	95.1	147.5	10.65	58.6	6.95	35.2	6.1	14.6	2.04	13.05	2.07	7.2
206.69	211.61	HC22-3431	3880	3540	340	1081.89	876	1630	188	739	107	170.5	11.25	65.6	7.79	40.1	7.07	17.45	2.46	15.4	2.38	6.3
211.61	216.54	HC22-3432	3820.13	3484	336.13	1061.23	854	1615	183.5	727	104.5	172	10.85	64	7.83	38.4	6.76	16.8	2.3	14.85	2.34	7
216.54	221.46	HC22-3433	3764.99	3429.5	335.49	1053.75	843	1580	182.5	720	104	170	10.65	63.8	7.65	39.6	6.95	17.05	2.4	15.1	2.29	7.5
221.46	226.38	HC22-3434	4020.7	3671.5	349.2	1124.96	863	1735	195	771	107.5	168.5	10.65	68.5	8.66	42.8	7.85	19.8	2.68	17.05	2.71	6.7
226.38	231.30	HC22-3435	4020.55	3674.5	346.05	1109.32	887	1730	194	756	107.5	165	10.8	67.8	8.72	43.1	7.96	20	2.74	17.05	2.88	6
231.30	236.22	HC22-3436	3801.69	3472	329.69	1059.53	832	1630	184	722	104	157.5	10.15	65.3	8.43	41.1	7.59	18.65	2.58	15.7	2.69	5.9
236.22	241.14	HC22-3437	3622.22	3310.2	312.02	1019.21	787	1550	177.5	696	99.7	149.5	10.65	61	7.71	38.3	7.2	17.65	2.39	15.15	2.47	6.3
241.14	246.06	HC22-3438	4138.81	3785.5	353.31	1156.47	896	1785	201	791	112.5	167.5	10.35	71.9	8.97	43	8.19	20.1	2.71	17.6	2.99	5.4
246.06	250.98	HC22-3439	4058.09	3706	352.09	1142.22	882	1735	198.5	780	110.5	165	10.4	71.9	9.12	44.1	8.09	20.6	2.62	17.55	2.71	6.4
250.98	255.91	HC22-3440	4120.5	3766.5	354	1153.45	906	1760	198.5	790	112	167	10.7	72.8	9.15	43.8	7.99	20.2	2.65	16.85	2.86	6.2
255.91	260.83	HC22-3441	4111.54	3752.5	359.04	1136.69	899	1770	199	774	110.5	173	10.65	71.6	8.89	44.3	8.17	20.4	2.74	16.55	2.74	5.5
260.83	265.75	HC22-3442	3518.93	3211.5	307.43	977.47	765	1515	169.5	667	95	146	10.1	61.3	7.77	38.2	7.04	18	2.43	14.1	2.49	6
265.75	270.67	HC22-3443	3576.44	3276.1	300.34	993.7	787	1540	172.5	683	93.6	142.5	10.6	59.7	7.5	37.1	6.96	17.15	2.3	14.2	2.33	6.1
270.67	275.59	HC22-3444	3397.17	3079.4	317.77	949.44	732	1445	163.5	647	91.9	155	10.35	59.4	7.74	39.3	7.37	18.05	2.42	15.55	2.59	5.3
275.59	280.51	HC22-3445	3305.35	2997	308.35	926.16	712	1405	159.5	629	91.5	148.5	10.45	59.1	7.76	38.4	7.04	17.65	2.42	14.5	2.53	5.4
280.51	285.43	HC22-3446	3344.35	3031.2	313.15	926.04	721	1430	161	630	89.2	152.5	10.7	59.6	7.54	38.3	7.13	17.65	2.43	14.9	2.4	5.6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM012	*4,635,428.20*	*475,632.59*	*5,679.78*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-3447	3588.66	3257.8	330.86	998.94	777	1530	172.5	681	97.3	161.5	10.5	63.2	8.04	40.1	7.64	18.85	2.54	15.95	2.54	6.2
290.35	295.28	HC22-3448	3326.86	3023.3	303.56	923.09	726	1420	160	630	87.3	145.5	10.25	58.2	7.49	38.3	6.92	17.8	2.38	14.4	2.32	4.8
295.28	300.20	HC22-3449	3667.66	3352.3	315.36	1023.28	805	1570	178	702	97.3	152	10.45	61.8	7.78	38.2	7.09	18.3	2.37	14.8	2.57	5.9
300.20	305.12	HC22-3451	3676.51	3358.2	318.31	1010.02	809	1585	177.5	688	98.7	154.5	10.15	62	7.82	38	7.17	18.25	2.34	15.5	2.58	4.3
305.12	310.04	HC22-3452	3755.74	3426.5	329.24	1045.21	819	1610	181.5	716	100	161	9.95	63.5	7.91	39.8	7.45	18.45	2.5	16.1	2.58	5.2
310.04	314.96	HC22-3453	3537.55	3220.3	317.25	977.74	758	1530	170.5	668	93.8	157	10.55	59.4	7.64	37.8	7.07	18.15	2.37	14.7	2.57	5.6
314.96	319.88	HC22-3454	3648.38	3336.9	311.48	1013.87	789	1580	176.5	696	95.4	149.5	10.4	60.9	7.87	38.1	7.11	18.15	2.34	14.7	2.41	4.7
319.88	324.80	HC22-3455	3628.67	3321.6	307.07	1003.52	789	1575	176	685	96.6	145.5	10.15	59.7	7.82	38.1	7.04	18.3	2.47	15.35	2.64	6.3
324.80	329.72	HC22-3456	3829.57	3473	356.57	1064.46	826	1635	184	721	107	173.5	10.25	69	8.76	43.7	7.89	20.3	2.76	17.65	2.76	5.6
329.72	334.65	HC22-3457	3651.13	3314	337.13	1013.18	791	1560	174.5	691	97.5	163	10.35	64.9	8.38	41.8	7.66	19.3	2.59	16.4	2.75	5.8
334.65	339.57	HC22-3458	3771.79	3424	347.79	1052.23	813	1610	181.5	717	102.5	167	10.85	67.8	8.43	42.8	7.95	20.5	2.78	16.9	2.78	5.4
339.57	344.49	HC22-3459	3408.76	3103.1	305.66	947.41	741	1460	165	645	92.1	145	10.5	60	7.61	37.7	6.9	18.1	2.37	15.1	2.38	6.7
344.49	349.41	HC22-3460	3483.68	3172.6	311.08	972.4	756	1490	168.5	664	94.1	149.5	10.4	60.4	7.7	38.1	7.13	18.1	2.4	14.9	2.45	4.8
349.41	354.33	HC22-3461	3529.86	3235.9	293.96	985.62	763	1530	170.5	678	94.4	138.5	10.25	60.6	7.22	35.5	6.7	16.75	2.26	13.85	2.33	4.4
354.33	359.25	HC22-3462	3471.94	3179.3	292.64	957.54	750	1515	168	654	92.3	139	10.05	58.1	7.34	35.9	6.72	16.8	2.27	14.25	2.21	5.3
359.25	364.17	HC22-3463	3684.33	3368.7	315.63	1027.5	798	1590	178.5	703	99.2	150	10.2	63.3	8.1	38.7	7.18	17.8	2.46	15.45	2.44	6.4
364.17	369.09	HC22-3464	2849.7	2555.5	294.2	800.43	584	1215	136.5	539	81	144	9.29	54	7.23	36.7	6.73	17.1	2.31	14.5	2.34	5.7
369.09	374.02	HC22-3465	3056.52	2749.6	306.92	858.09	637	1300	147	580	85.6	151	9.13	56.5	7.39	38.1	7.12	17.8	2.43	14.95	2.5	5.8
374.02	378.94	HC22-3466	3378.39	3059.3	319.09	934.51	732	1440	160	635	92.3	154.5	9.8	61.2	8.01	39.2	7.36	18.5	2.53	15.45	2.54	6.8
378.94	383.86	HC22-3467	3588.45	3271.9	316.55	990.73	784	1545	171.5	676	95.4	150.5	10	62.8	8.03	39.8	7.32	18.6	2.37	14.65	2.48	5.7
383.86	388.78	HC22-3468	3808.14	3452	356.14	1054.44	831	1620	180.5	718	102.5	172.5	10.2	69	8.74	44.7	8.15	20.8	2.76	16.7	2.59	6.9
388.78	393.70	HC22-3470	3301.57	2973.2	328.37	907.07	697	1415	158.5	614	88.7	169.5	10.5	59.6	7.77	38.1	7.06	17.6	2.35	13.65	2.24	5.2
393.70	398.62	HC22-3471	3339.45	3003	336.45	918.17	708	1425	159.5	620	90.5	172	10	62.3	7.97	40.2	7	17.9	2.27	14.45	2.36	6.5
398.62	403.54	HC22-3472	3500.09	3177.9	322.19	950.66	748	1525	167	643	94.9	161	10.5	62.1	7.76	38	7.05	17.05	2.25	14.3	2.18	6.9
403.54	408.46	HC22-3473	3473.32	3140.7	332.62	952.88	735	1500	167.5	645	93.2	167	10.45	63.7	7.98	39.2	7.23	18.35	2.37	14.1	2.24	6.4
408.46	413.39	HC22-3474	3339.81	3021.7	318.11	919.28	712	1435	161	621	92.7	162.5	9.34	60.2	7.68	36.9	6.66	17	2.21	13.45	2.17	6.5
413.39	418.31	HC22-3475	3395.65	3066.5	329.15	931.61	717	1465	161	632	91.5	167.5	9.59	60.7	8.11	39	7.18	17.9	2.37	14.45	2.35	6.3
418.31	423.23	HC22-3476	3173.25	2865.6	307.65	871.93	667	1370	151.5	589	88.1	156	9.2	58.6	7.53	35.8	6.55	16.4	2.27	13.05	2.25	4.7
423.23	428.15	HC22-3477	3286.17	2980.3	305.87	898.61	700	1425	157.5	609	88.8	154	9.2	58.4	7.41	35.9	6.5	16.75	2.18	13.4	2.13	6.6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM012	4,635,428.20	475,632.59	5,679.78	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
428.15	433.07	HC22-3478	3834.4	3498	336.4	1047.77	832	1665	185	715	101	170.5	9.64	65.4	8.07	38.7	7.16	17.55	2.41	14.65	2.32	6.6
433.07	437.99	HC22-3479	3807.21	3463.5	343.71	1044.13	813	1655	183.5	711	101	174	9.9	66.1	8.23	40.4	7.4	17.7	2.41	15.1	2.47	5.9
437.99	442.91	HC22-3480	3305.98	3028.9	277.08	894.66	718	1455	158.5	612	85.4	139	8.57	54.7	6.76	32	5.78	14.6	1.94	11.8	1.93	6.1
442.91	447.83	HC22-3481	3630.96	3338.2	292.76	989.98	794	1595	178	678	93.2	146	8.26	59	7.28	33.5	6.25	15.7	2.07	12.65	2.05	6.6
447.83	452.76	HC22-3482	2701.65	2459.9	241.75	736.73	562	1195	130.5	502	70.4	120.5	6.74	48.1	5.93	27.9	5.2	12.8	1.79	11.05	1.74	4.8
452.76	457.68	HC22-3483	2465.93	2196.3	269.63	683.86	490	1060	118	457	71.3	139	7.89	48.7	6.26	31.3	5.74	14.55	1.92	12.25	2.02	7.6
457.68	462.60	HC22-3484	3096.26	2831.8	264.46	847.31	656	1365	150.5	580	80.3	133	8.34	52.2	6.41	30.1	5.52	13.75	1.78	11.4	1.96	5.8
462.60	467.52	HC22-3485	3269.55	2990.6	278.95	886.52	703	1440	158.5	604	85.1	140.5	8.18	54.4	6.82	32.1	5.85	15.1	1.88	12.05	2.07	5.5
467.52	472.44	HC22-3486	3219.55	2958.8	260.75	873.63	696	1425	157	597	83.8	131.5	7.83	51.9	6.33	29.5	5.48	13.7	1.92	10.9	1.69	5
472.44	477.36	HC22-3487	3428.05	3160.9	267.15	936.1	762	1500	169	644	85.9	133	8.17	54.2	6.3	30.9	5.54	13.8	1.9	11.65	1.69	6.4
477.36	482.28	HC22-3488	3366.56	3099.4	267.16	920.72	741	1475	164.5	631	87.9	133	8.62	54.2	6.52	30.8	5.45	13.75	1.9	11.15	1.77	6.1
482.28	487.20	HC22-3490	3261.59	2997.2	264.39	890.04	709	1435	158.5	610	84.7	131.5	9.74	52.7	6.34	30.5	5.35	13.75	1.78	10.95	1.78	6.2
487.20	492.13	HC22-3491	3882.77	3579	303.77	1071.48	840	1710	190.5	737	101.5	149.5	10.4	62.9	7.48	35	6.19	15.25	2.09	12.9	2.06	6.7

Rare Earth Element Summary

Drill Hole	***Northing***	***Easting***	***Collar***	***Total Depth***	***Hole Type***
HC22-OM013	*4,635,251.10*	*475,539.20*	*5,744.53*	*492.13*	*RC*

From Depth	***To Depth***	***Sample No.***					***Light REE***					***Heavy REE***										
			TREE	***LREE***	***HREE***	***MREE***	***La***	***Ce***	***Pr***	***Nd***	***Sm***	***Y***	***Eu***	***Gd***	***Tb***	***Dy***	***Ho***	***Er***	***Tm***	***Yb***	***Lu***	***Sc***
0.00	4.92	HC22-3492	341.25	270.4	70.85	90.45	64.6	124.5	14.75	56.8	9.75	39.7	1.88	8.79	1.3	7.85	1.62	4.54	0.6	3.98	0.59	18.4
4.92	9.84	HC22-3493	348.46	278.1	70.36	93.18	66.4	127.5	15.1	58.6	10.5	39.9	2.16	8.66	1.32	7.66	1.57	4.07	0.61	3.82	0.59	18.1
9.84	14.76	HC22-3494	327.5	258.82	68.68	87.12	61.7	119	14.3	54.2	9.62	38.5	1.69	8.35	1.29	7.71	1.54	4.37	0.62	4.03	0.58	19.2
14.76	19.69	HC22-3495	321.59	245.18	76.41	84.78	56.5	113.5	13.6	52.1	9.48	43.9	1.99	8.87	1.46	8.14	1.63	4.76	0.69	4.33	0.64	19.2
19.69	24.61	HC22-3496	900.17	758.6	141.57	245.73	177	355	42.5	156.5	27.6	77.7	4.02	20.5	2.93	16.2	3.15	8.01	1.17	6.91	0.98	13.4
24.61	29.53	HC22-3497	496.98	416.75	80.23	131.7	100	196	22.7	84.1	13.95	43.7	2.38	11.2	1.5	9.45	1.72	4.96	0.69	4.01	0.62	14.5
29.53	34.45	HC22-3498	327.1	255.95	71.15	87.41	61.4	116.5	14.35	53.6	10.1	39.9	1.84	8.71	1.28	8.08	1.57	4.44	0.65	4.04	0.64	23.6
34.45	39.37	HC22-3499	1300.39	1095.4	204.99	358.6	246	519	61	231	38.4	109	6.79	31.5	4.3	23.9	4.37	11.85	1.58	10.2	1.5	9.1
39.37	44.29	HC22-3500	2665.41	2363.2	302.21	742.55	554	1110	132	490	77.2	151.5	8.79	56.7	7.15	36.2	6.79	16.95	2.25	13.7	2.18	4.6
44.29	49.21	HC22-3501	474.88	386.85	88.03	129.69	89.6	179	21.3	82.5	14.45	48.9	2.42	11.95	1.69	9.75	1.9	5.3	0.76	4.55	0.81	18.1
49.21	54.13	HC22-3502	1241.17	1030.2	210.97	339.7	237	483	57.2	215	38	116	4.63	30.4	4.4	25.1	4.78	12.1	1.6	10.5	1.46	11.3
54.13	59.06	HC22-3503	2213.46	1821.6	391.86	600.96	413	865	100	374	69.6	215	5.81	57.8	8.56	48.8	9.24	23.3	3.06	17.9	2.39	6.9
59.06	63.98	HC22-3504	2415.75	2130.2	285.55	673.85	487	1010	117	443	73.2	146	9.39	49.6	6.55	34.1	6.16	15.75	2.07	13.95	1.98	5.9
63.98	68.90	HC22-3505	3389.77	3094	295.77	934.59	732	1470	172	628	92	145	9.33	58.2	7.09	35.5	6.2	16.15	2.25	13.8	2.25	4.6
68.90	73.82	HC22-3506	3258.36	2969.7	288.66	894.79	707	1410	163.5	602	87.2	139	10.3	57.5	6.99	35.1	6.3	15.9	2	13.55	2.02	3.6
73.82	78.74	HC22-3507	3622.38	3291.2	331.18	992.42	787	1560	182	666	96.2	162	10.75	65.5	8.02	40.2	7.21	17.85	2.42	14.95	2.28	5
78.74	83.66	HC22-3508	3846.83	3474	372.83	1064.55	824	1640	193	712	105	185.5	10.15	71.7	8.85	45.7	8.19	20.5	2.63	17.1	2.51	3.8
83.66	88.58	HC22-3509	3362.74	3020.7	342.04	927.94	717	1425	168	618	92.7	171	10.25	64.6	8.04	41.2	7.48	19	2.47	15.5	2.5	4.4
88.58	93.50	HC22-3511	3668.91	3304.2	364.71	1000.63	793	1565	181.5	665	99.7	183.5	9.39	68	8.63	45.8	7.97	19.9	2.66	16.35	2.51	3.8
93.50	98.43	HC22-3512	3311.31	3005.3	306.01	908.2	721	1420	165.5	610	88.8	152.5	8.46	60.2	7.4	36.5	6.71	16.2	2.18	13.7	2.16	3.5
98.43	103.35	HC22-3513	3925.28	3548.5	376.78	1070.41	863	1670	194.5	715	106	187	11.05	71.7	8.81	46.1	8.27	20.9	2.74	17.55	2.66	5.1
103.35	108.27	HC22-3514	3608.41	3263.7	344.71	974.7	779	1560	179.5	651	94.2	171.5	10.9	65.4	8.1	41.9	7.52	18.8	2.42	15.8	2.37	4
108.27	113.19	HC22-3515	3504.7	3158.7	346	968.07	751	1490	175	645	97.7	172.5	10.35	66.3	8.27	42.1	7.5	18.8	2.45	15.35	2.38	4
113.19	118.11	HC22-3516	4236.04	3841	395.04	1154.98	933	1810	212	772	114	196	10.9	76.7	9.48	47.5	8.54	22.2	2.85	18.05	2.82	5
118.11	123.03	HC22-3517	4118.13	3723	395.13	1129.8	890	1760	207	755	111	196.5	11.45	77	9.3	47.5	8.68	21.5	2.88	17.55	2.77	4.5
123.03	127.95	HC22-3518	3375.01	3047.1	327.91	920.9	744	1430	167.5	613	92.6	161.5	10.55	63.1	8	39.8	7	18	2.42	15.2	2.34	3.3
127.95	132.87	HC22-3519	3695.41	3346.6	348.81	1014.11	804	1580	185	678	99.6	172	11.2	67.2	8.41	43.1	7.79	18.85	2.45	15.45	2.36	3.7
132.87	137.80	HC22-3520	3602.47	3254.1	348.37	997.18	777	1530	181	668	98.1	175.5	10.75	65.5	8.48	41.6	7.54	18.55	2.41	15.6	2.44	4.1
137.80	142.72	HC22-3521	3634.14	3292.5	341.64	997.95	789	1555	181.5	669	98	170	11.15	66	8.15	41.3	7.37	18	2.39	14.95	2.33	4.9

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM013	*4,635,251.10*	*475,539.20*	*5,744.53*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-3522	3576.29	3238	338.29	977.86	774	1535	178	655	96	166	10.9	66.1	8.16	40.7	7.37	18.55	2.45	15.7	2.36	4.7
147.64	152.56	HC22-3523	3412.69	3089.5	323.19	940.95	730	1465	172	630	92.5	159	10.9	63.2	7.65	38.8	7	17.7	2.23	14.45	2.26	3.6
152.56	157.48	HC22-3524	3730.09	3419.5	310.59	955.74	843	1665	173	642	96.5	157	9.39	60.5	7.24	37	6.21	16.2	2.25	12.75	2.05	5.8
157.48	162.40	HC22-3525	3618.03	3285.7	332.33	936.32	801	1595	167.5	624	98.2	172	9.8	61.2	7.42	39.2	6.54	17.45	2.33	14.1	2.29	6.4
162.40	167.32	HC22-3526	3864.6	3526	338.6	1004.1	879	1690	181.5	672	103.5	175	10.55	63.1	7.3	39.8	6.63	17.45	2.34	14.05	2.38	5.7
167.32	172.24	HC22-3527	3622.17	3292.5	329.67	937.68	801	1600	167.5	628	96	169	10.25	61.5	7.48	38.7	6.46	17.45	2.39	14.2	2.24	7.4
172.24	177.17	HC22-3528	3556.33	3236	320.33	935.64	785	1560	164.5	630	96.5	166	9.87	58.9	7.04	37.6	6.29	16.65	2.21	13.65	2.12	6.9
177.17	182.09	HC22-3530	3803.87	3454.5	349.37	1002.02	841	1660	177.5	673	103	181.5	9.95	65.4	7.72	40.8	7.02	17.9	2.43	14.2	2.45	7.1
182.09	187.01	HC22-3531	3590.49	3258.3	332.19	937.1	789	1580	165.5	627	96.8	170	10.35	61.1	7.6	40.2	6.72	17.35	2.33	14.2	2.34	6.5
187.01	191.93	HC22-3532	3687.43	3349	338.43	965.48	820	1610	169.5	648	101.5	176.5	9.81	61.8	7.48	39	6.81	17.65	2.37	14.6	2.41	5.8
191.93	196.85	HC22-3533	3686.59	3353.5	333.09	968.37	816	1615	170.5	652	100	173.5	9.78	61.7	7.27	38.6	6.57	17.05	2.41	13.8	2.41	5.8
196.85	201.77	HC22-3534	3743.62	3399	344.62	990.42	812	1645	174	664	104	176.5	10.25	65	7.72	40.7	6.85	18.05	2.37	14.8	2.38	6.4
201.77	206.69	HC22-3535	3610.5	3277.5	333	953.96	786	1585	168.5	638	100	170.5	10.35	61.6	7.36	40.1	6.78	18.25	2.18	13.5	2.38	6
206.69	211.61	HC22-3536	3476.13	3155.1	321.03	919.33	766	1515	162.5	617	94.6	166	9.9	59	6.93	38.3	6.31	16.55	2.2	13.55	2.29	6.8
211.61	216.54	HC22-3537	3413.35	3095.6	317.75	904.69	745	1490	160.5	606	94.1	163	10	59.9	7.09	37	6.41	16.5	2.32	13.25	2.28	6.5
216.54	221.46	HC22-3538	3953.66	3606	347.66	1035.59	864	1755	183	697	107	179	10.3	65.9	7.59	41	6.81	17.6	2.43	14.6	2.43	6.5
221.46	226.38	HC22-3539	3667.96	3349.4	318.56	952.75	802	1640	170	640	97.4	162.5	10.4	59.8	7.05	38.3	6.24	17.4	2.15	12.6	2.12	5.6
226.38	231.30	HC22-3540	3783.09	3450	333.09	997	840	1660	178	668	104	170.5	10.45	62.4	7.6	39.4	6.66	17.4	2.27	14	2.41	5.1
231.30	236.22	HC22-3541	3524.15	3204.1	320.05	923.57	766	1560	161.5	620	96.6	162.5	9.85	59.8	6.97	38.5	6.56	17.45	2.26	13.8	2.36	5.3
236.22	241.14	HC22-3542	3705.16	3393.6	311.56	974.26	813	1650	172.5	659	99.1	159.5	9.98	58.9	7.06	36.6	6.42	16.05	2.16	12.7	2.19	6.4
241.14	246.06	HC22-3543	3653.58	3346.8	306.78	960.7	803	1625	169.5	651	98.3	157.5	9.47	58.7	6.8	35.1	6.12	15.85	2.17	12.85	2.22	5.3
246.06	250.98	HC22-3544	3720.39	3390.1	330.29	966.96	824	1645	171.5	650	99.6	170	10.05	62.8	7.16	38.7	6.49	17	2.31	13.5	2.28	5.9
250.98	255.91	HC22-3545	3731.68	3408	323.68	978.56	820	1655	173.5	659	100.5	165	10.25	61.8	7.26	38.3	6.42	16.95	2.3	13.2	2.2	4.5
255.91	260.83	HC22-3546	3493.45	3197.7	295.75	910.97	774	1555	164	611	93.7	149	9.88	56.9	6.67	35.6	5.9	15.2	2.08	12.4	2.12	5.8
260.83	265.75	HC22-3547	3922.85	3597	325.85	1015.53	858	1770	182.5	679	107.5	164.5	10.5	63.1	7.43	39.1	6.53	16.8	2.3	13.3	2.29	6
265.75	270.67	HC22-3548	3416.5	3123	293.5	897.96	747	1520	159.5	605	91.5	149.5	9.92	55.4	6.56	35.4	5.66	14.75	2.12	12.3	1.89	5.3
270.67	275.59	HC22-3550	3123.3	2854.4	268.9	812.23	686	1395	145	544	84.4	135.5	9.43	51	6.13	32.7	5.36	13.75	1.86	11.25	1.92	5.4
275.59	280.51	HC22-3551	3559.3	3246.6	312.7	935.8	780	1575	166	628	97.6	159	10.2	59.2	7	37.2	6.32	16.65	2.12	12.85	2.16	5.7
280.51	285.43	HC22-3552	3891.75	3549	342.75	1020.72	856	1720	180.5	685	107.5	176.5	10.2	64.7	7.52	40.2	6.89	17.8	2.35	14.1	2.49	5.7

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM013	4,635,251.10	475,539.20	5,744.53	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-3553	3402.01	3113.5	288.51	897.84	765	1490	157.5	607	94	147	9.29	56.2	6.34	33	5.72	15.05	2.03	11.9	1.98	7
290.35	295.28	HC22-3554	3021.28	2771.9	249.38	786.55	660	1360	139	531	81.9	126.5	9.14	47.8	5.65	29	4.86	13.1	1.69	10	1.64	5.4
295.28	300.20	HC22-3555	3652.22	3325	327.22	969.47	798	1605	168	653	101	165.5	10	61.8	7.37	40.1	6.58	17.35	2.23	13.95	2.34	5.1
300.20	305.12	HC22-3556	3439.04	3124.4	314.64	909.69	744	1515	159	611	95.4	161	9.51	59.5	6.99	37.3	6.38	16.8	2.23	12.85	2.08	5.6
305.12	310.04	HC22-3557	3460.03	3153.3	306.73	903.64	758	1535	160.5	604	95.8	155	9.94	59.7	6.84	36.5	6.21	15.9	2.1	12.35	2.19	5
310.04	314.96	HC22-3558	4159.95	3829.5	330.45	1103.9	913	1860	196.5	747	113	165.5	10.6	65.2	7.9	39.5	6.85	17	2.3	13.4	2.2	5.1
314.96	319.88	HC22-3559	3412.72	3095.8	316.92	913.48	742	1485	157.5	615	96.3	161.5	9.93	60.4	7.18	37.5	6.31	16.55	2.22	13.15	2.18	5.4
319.88	324.80	HC22-3560	3130.44	2824.3	306.14	862.83	665	1340	142.5	584	92.8	152	10	59.8	7.43	36.1	6.3	16.4	2.1	13.8	2.21	6.5
324.80	329.72	HC22-3561	3073.47	2775.4	298.07	856.67	671	1290	143	579	92.4	150.5	8.91	57.1	6.97	35.3	6.2	15.35	2.08	13.55	2.11	6.6
329.72	334.65	HC22-3562	3363.49	3048.1	315.39	927.04	731	1435	155	628	99.1	156.5	10.1	63	7.54	37.4	6.41	16.35	2.1	13.8	2.19	6.4
334.65	339.57	HC22-3563	3496.79	3160	336.79	965.13	752	1490	160	655	103	169.5	10.4	65.4	7.73	39.4	6.95	17.75	2.2	15.2	2.26	6.9
339.57	344.49	HC22-3564	3030.49	2760.1	270.39	824.97	643	1330	139	560	88.1	134	9.65	53.2	6.17	31.7	5.38	14.35	1.71	12.35	1.88	5.8
344.49	349.41	HC22-3565	3306.19	3020.5	285.69	907.04	724	1430	153.5	618	95	139	10.15	58.3	6.84	33.7	5.87	15.2	1.86	12.85	1.92	6.3
349.41	354.33	HC22-3566	2942.64	2657.2	285.44	811.66	620	1265	134	552	86.2	144	9.67	54.6	6.46	33	5.72	14.95	1.98	12.95	2.11	5.6
354.33	359.25	HC22-3567	3343.68	3033.1	310.58	915.44	726	1435	154.5	620	97.6	155	10.5	61.1	7.24	36.1	6.32	16.05	2.1	14.1	2.07	6.6
359.25	364.17	HC22-3568	2871.33	2603.9	267.43	796.32	620	1225	132	541	85.9	132	9.42	53	6.32	31.1	5.5	14.05	1.86	12.3	1.88	6
364.17	369.09	HC22-3569	3057.13	2778.8	278.33	851.19	652	1315	142	577	92.8	136	9.82	56.1	6.69	32.7	5.58	14.65	1.86	13	1.93	5.6
369.09	374.02	HC22-3571	3309.09	3021.2	287.89	912.59	709	1440	153.5	623	95.7	140.5	9.97	58.6	6.89	33.5	5.87	15.65	1.88	13.05	1.98	6.8
374.02	378.94	HC22-3572	3885.26	3567.5	317.76	1059.07	853	1700	178.5	725	111	157.5	9.86	64.1	7.47	37.1	6.57	16.7	2.06	14.35	2.05	8.5
378.94	383.86	HC22-3573	3994.06	3628.5	365.56	1106.19	879	1695	182.5	754	118	184	10.3	71.5	8.49	43.2	7.57	19.25	2.43	16.3	2.52	7.8
383.86	388.78	HC22-3574	3047.24	2669.5	377.74	855.83	628	1240	136.5	565	100	194.5	9.47	67.7	8.63	45.7	7.95	20.4	2.55	18.15	2.69	9.9
388.78	393.70	HC22-3575	3327.43	2969	358.43	912.41	698	1410	149.5	610	101.5	182.5	10.45	66.3	8.21	43.2	7.46	19	2.51	16.3	2.5	9
393.70	398.62	HC22-3576	2914.21	2629.4	284.81	795.71	629	1245	131.5	540	83.9	142.5	9.71	54.2	6.61	33.7	6	15.15	1.94	13.1	1.9	6.9
398.62	403.54	HC22-3577	3050.33	2774.5	275.83	819.92	663	1330	137	558	86.5	138	9.35	52.9	6.32	32.1	5.67	14.8	1.87	12.9	1.92	5.2
403.54	408.46	HC22-3578	3211.38	2921.4	289.98	872.05	709	1380	145.5	593	93.9	147.5	9.95	54.4	6.55	33.1	5.86	15.3	2.01	13.35	1.96	6.2
408.46	413.39	HC22-3579	2882.93	2626.4	256.53	779.35	628	1255	131.5	531	80.9	129	9.04	48.6	5.85	30.1	5.14	13.5	1.82	11.7	1.78	7.9
413.39	418.31	HC22-3580	3136.76	2861.1	275.66	844.1	686	1370	144.5	572	88.6	137.5	10.15	51.6	6.3	32.7	5.56	15.15	1.84	12.8	2.06	6.5
418.31	423.23	HC22-3581	3142.44	2887.2	255.24	859.31	688	1375	145	592	87.2	127	9.49	49.3	5.91	29.2	5.24	13.65	1.73	11.85	1.87	5.9
423.23	428.15	HC22-3582	3253.47	2991.2	262.27	886.24	726	1415	152	607	91.2	130.5	9.67	51.7	6.04	30	5.27	13.2	1.76	12.3	1.83	5.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM013	*4,635,251.10*	*475,539.20*	*5,744.53*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
428.15	433.07	HC22-3583	3009.75	2760.5	249.25	826.15	664	1305	138.5	567	86	122	9.61	49.2	5.85	28.8	5.01	13.7	1.73	11.55	1.8	4.6
433.07	437.99	HC22-3584	2792.71	2550.1	242.61	761.13	598	1225	127	519	81.1	120	9.63	46.5	5.63	28.4	5.01	13.2	1.62	11.05	1.57	5.8
437.99	442.91	HC22-3585	2851.45	2615	236.45	780.03	628	1240	131.5	535	80.5	117	9.09	46.2	5.63	27.4	4.68	11.95	1.56	11.25	1.69	5.4
442.91	447.83	HC22-3586	3401	3129.8	271.2	923.82	758	1485	157	634	95.8	134	10.55	53.6	6.22	30.8	5.54	14.05	1.84	12.6	2	6.5
447.83	452.76	HC22-3587	3065.51	2817.2	248.31	832.53	684	1335	142.5	568	87.7	121	9.71	49.4	5.83	28.5	5.07	13.55	1.7	11.95	1.6	6.3
452.76	457.68	HC22-3588	3070.01	2814.5	255.51	833.77	671	1345	142.5	570	86	127.5	10.1	49.5	5.67	29.6	5.07	12.95	1.61	11.65	1.86	5.9
457.68	462.60	HC22-3590	3330.91	3078.2	252.71	902.27	746	1465	154.5	620	92.7	123	10.15	51.2	5.97	29.1	5.01	13.05	1.66	11.85	1.72	6.3
462.60	467.52	HC22-3591	4077.56	3774.5	303.06	1116.5	915	1785	191	768	115.5	147.5	10.8	63.4	7.1	34.9	5.93	15.65	1.98	13.75	2.05	6.4
467.52	472.44	HC22-3592	3766.26	3493.5	272.76	1027.83	843	1660	175.5	710	105	132.5	10.25	56.3	6.43	30.9	5.31	14.05	1.78	13.15	2.09	6.7
472.44	477.36	HC22-3593	3573.29	3299.5	273.79	975.75	776	1585	165.5	673	100	132.5	10.45	56.4	6.45	30.8	5.62	14.3	1.92	13.35	2	7.2
477.36	482.28	HC22-3594	3829.83	3534.5	295.33	1050.19	860	1665	179.5	721	109	144	10.55	61.8	7.09	33.6	5.72	15.1	1.96	13.45	2.06	5.2
482.28	487.20	HC22-3595	3631.82	3350	281.82	1007.92	796	1585	168.5	697	103.5	138	9.92	58.3	6.62	32.3	5.61	14.5	1.83	12.8	1.94	6
487.20	492.13	HC22-3596	3728.51	3451.5	277.01	1020.81	831	1640	182.5	697	101	133.5	9.91	57.6	6.91	33.4	5.76	14.3	1.9	11.8	1.93	5.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM014	*4,635,229.56*	*475,703.61*	*5,665.76*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-3597	1943.33	1761.3	182.03	545.41	406	836	95.1	368	56.2	90.3	5.59	35.6	4.41	21.7	3.98	9.7	1.3	8.14	1.31	11.4
4.92	9.84	HC22-3598	2695.2	2466.4	228.8	740.13	595	1165	130.5	501	74.9	111	7.65	47.1	5.73	28	4.71	11.85	1.59	9.58	1.59	6.1
9.84	14.76	HC22-3599	3193.31	2930.3	263.01	875.51	709	1385	155	593	88.3	127.5	8.38	54.6	6.51	32.7	5.46	13.45	1.77	10.85	1.79	3.6
14.76	19.69	HC22-3600	3031.13	2779.4	251.73	836.31	665	1315	148	567	84.4	121.5	8.5	52	6.31	30.6	5.16	12.85	1.73	11.35	1.73	3.1
19.69	24.61	HC22-3601	3206.08	2903.3	302.78	882.87	690	1375	154.5	593	90.8	146.5	9.47	60.7	7.57	37	6.53	16.05	2.17	14.45	2.34	2.8
24.61	29.53	HC22-3602	2792.84	2549.9	242.94	772.13	609	1205	136.5	521	78.4	116.5	7.87	49.5	6.13	30.1	5.23	13.1	1.74	11	1.77	2.6
29.53	34.45	HC22-3603	3585.71	3273.5	312.21	989.66	775	1555	173.5	668	102	150	9.7	64.5	7.86	38.3	6.63	16.6	2.24	14.1	2.28	5
34.45	39.37	HC22-3604	3581.06	3266.5	314.56	988.53	780	1545	172.5	668	101	148.5	9.76	67.1	8.13	38.9	6.96	16.3	2.23	14.4	2.28	4.4
39.37	44.29	HC22-3605	3568.13	3219.5	348.63	994.87	756	1520	172	667	104.5	172	9.92	67.5	8.27	43.1	7.54	18.95	2.57	16.15	2.63	4.2
44.29	49.21	HC22-3606	3454.9	3129.4	325.5	941.69	745	1490	166.5	631	96.9	159	9.98	64.6	7.89	39.4	7.02	17.4	2.37	15.45	2.39	4.6
49.21	54.13	HC22-3607	3349.8	3013.5	336.3	948.07	705	1410	162.5	633	103	166.5	8.75	64.9	8.27	41.3	7.34	18.45	2.47	15.8	2.52	4.2
54.13	59.06	HC22-3608	4218.44	3826.5	391.94	1168.71	911	1805	204	784	122.5	192	9.54	78.1	9.91	48.3	8.59	21.4	2.84	18.3	2.96	3.5
59.06	63.98	HC22-3610	3430.28	3116	314.28	947.06	745	1470	165	639	97	154	9.86	61.3	7.66	38.4	6.92	16.85	2.18	14.75	2.36	3.3
63.98	68.90	HC22-3611	3435.59	3131.3	304.29	941.17	750	1485	166.5	633	96.8	148.5	9.09	61	7.47	37.4	6.49	16	2.14	13.9	2.3	4.7
68.90	73.82	HC22-3612	3457.23	3140.2	317.03	949.46	748	1490	166.5	638	97.7	153	9.26	63.8	7.76	39.5	6.89	17.1	2.37	14.9	2.45	4.1
73.82	78.74	HC22-3613	3992.94	3628.5	364.44	1105.13	867	1710	193	742	116.5	178.5	9.74	72.7	8.93	44.7	7.88	19.7	2.6	16.85	2.84	4.1
78.74	83.66	HC22-3614	3808.9	3456.5	352.4	1049.93	818	1640	184	706	108.5	173.5	9.86	69.5	8.53	42.9	7.59	18.9	2.48	16.5	2.64	3.8
83.66	88.58	HC22-3615	3741.64	3377.5	364.14	1037.77	799	1595	179	696	108.5	179	9.85	70.9	9.07	45.2	7.92	19.6	2.75	17.1	2.75	4.8
88.58	93.50	HC22-3616	4220.74	3812	408.74	1169.55	897	1805	201	786	123	203	9.88	79.5	10.15	49.4	8.93	22.4	3.08	19.35	3.05	3.6
93.50	98.43	HC22-3617	3224.07	2914.6	309.47	881.32	703	1375	154	590	92.6	153.5	9.65	60.2	7.52	37.2	6.64	16.35	2.13	14.05	2.23	4.3
98.43	103.35	HC22-3618	3629.99	3278	351.99	995.69	784	1550	172	669	103	173	9.74	68.9	8.69	43	7.64	19.3	2.58	16.5	2.64	3.1
103.35	108.27	HC22-3619	3923.31	3560	363.31	1082.22	846	1685	189	727	113	179.5	9.79	71.9	9.02	44.2	7.98	19.2	2.61	16.45	2.66	3.5
108.27	113.19	HC22-3620	3725.48	3373.5	351.98	1021.77	799	1605	177.5	687	105	172.5	9.91	70.2	8.87	43.4	7.51	18.5	2.5	15.9	2.69	4.6
113.19	118.11	HC22-3621	3658.24	3308.5	349.74	1003.6	791	1565	176.5	673	103	172	9.65	69.8	8.5	42.6	7.57	18.7	2.54	15.9	2.48	2.9
118.11	123.03	HC22-3622	3734.54	3367.5	367.04	1037.99	794	1590	180.5	694	109	181	9.96	72.2	9.09	45.4	8	19.5	2.61	16.5	2.78	4.3
123.03	127.95	HC22-3623	3808.2	3453	355.2	1050.21	820	1635	183	707	108	173	9.8	72.6	8.81	43.4	7.64	18.85	2.5	16	2.6	3.9
127.95	132.87	HC22-3624	4035.59	3644	391.59	1122.67	864	1715	194	753	118	193	9.96	78.2	9.67	48	8.4	21	2.89	17.65	2.82	4.6
132.87	137.80	HC22-3625	3714.58	3355.5	359.08	1031.92	801	1575	179	693	107.5	176	9.42	72	8.92	43.5	7.65	19.5	2.59	16.8	2.7	4
137.80	142.72	HC22-3626	4510.07	4076.5	433.57	1246.15	969	1925	216	836	130.5	213	9.25	86.9	10.55	53.1	9.42	23.7	3.18	21	3.47	5.1

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM014	4,635,229.56	475,703.61	5,665.76	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-3627	4953.26	4493	460.26	1374.45	1105	2080	248	916	144	228	10.35	91.2	11.35	55.1	9.78	25.3	3.48	22	3.7	4.3
147.64	152.56	HC22-3628	3873.49	3513	360.49	1068.99	870	1625	194	712	112	181	10.1	68.9	8.59	42.4	7.61	19.5	2.63	17	2.76	3.7
152.56	157.48	HC22-3629	4194.23	3785	409.23	1163.45	930	1750	207	774	124	204	10.55	80.8	9.95	48.5	8.75	22.2	2.99	18.45	3.04	4.3
157.48	162.40	HC22-3631	3685.62	3332.5	353.12	1022.47	816	1545	183	681	107.5	176	10.2	69.3	8.67	42.3	7.61	18.75	2.46	15.3	2.53	3.5
162.40	167.32	HC22-3632	3441.31	3097.5	343.81	957	770	1420	170.5	633	104	172	10.1	66.1	8.4	41.1	7.39	18.45	2.51	15.3	2.46	3.9
167.32	172.24	HC22-3633	3494.37	3160	334.37	964.63	784	1460	173	642	101	166.5	9.88	65.4	8.13	40.5	6.98	17.45	2.35	14.85	2.33	3.7
172.24	177.17	HC22-3634	3257.01	2940.2	316.81	896.92	723	1365	162.5	594	95.7	159.5	9.52	59.8	7.52	37.2	6.62	17.35	2.27	14.75	2.28	3.1
177.17	182.09	HC22-3635	3594.03	3239	355.03	991.61	803	1495	178	657	106	178.5	10.45	68.8	8.51	42.1	7.42	18.8	2.52	15.5	2.43	4.1
182.09	187.01	HC22-3636	3394.06	3055	339.06	945.07	763	1395	168	628	101	171.5	9.61	64.6	8.17	39.9	7.19	18	2.48	15.3	2.31	4.7
187.01	191.93	HC22-3637	3654.08	3306.5	347.58	1007.83	828	1520	181.5	671	106	175	10.2	67.2	8.33	41	7.3	18.2	2.49	15.5	2.36	4.3
191.93	196.85	HC22-3638	3533.51	3190	343.51	981.32	783	1475	176	653	103	170.5	10.15	67.2	8.42	40.9	7.26	18.65	2.52	15.45	2.46	4.9
196.85	201.77	HC22-3639	3477.61	3147.5	330.11	960.91	784	1450	173.5	640	100	163.5	10.05	65.3	8.01	39.4	6.92	17.45	2.42	14.75	2.31	4.2
201.77	206.69	HC22-3640	3590.5	3247	343.5	1001.78	800	1495	180	666	106	170	9.82	67.6	8.28	41.5	7.36	18.65	2.46	15.45	2.38	4.6
206.69	211.61	HC22-3641	3380.09	3048.5	331.59	933.69	757	1405	168.5	620	98	166.5	9.82	63.8	7.89	39.3	6.97	17.75	2.41	14.7	2.45	4.5
211.61	216.54	HC22-3642	3444.9	3112.5	332.4	952.97	766	1440	170.5	636	100	168.5	9.96	63.7	7.87	38.6	7.02	17.2	2.4	14.8	2.35	3.5
216.54	221.46	HC22-3643	3460.3	3136	324.3	956.9	775	1450	171.5	639	100.5	162.5	10.5	62.9	7.7	38.2	6.66	17	2.26	14.3	2.28	3.9
221.46	226.38	HC22-3644	3621.59	3294.5	327.09	1008.13	807	1525	182	675	105.5	164.5	10.05	63.5	7.83	37.8	6.84	17	2.39	14.9	2.28	4
226.38	231.30	HC22-3645	3247.36	2939	308.36	898.86	724	1360	161	597	97	155.5	8.9	59.2	7.46	36.4	6.64	16.1	2.27	13.65	2.24	3.3
231.30	236.22	HC22-3646	3580.03	3244	336.03	999.82	807	1485	178.5	666	107.5	168.5	9.82	65.5	8.02	39.8	7.19	17.5	2.38	14.9	2.42	3.5
236.22	241.14	HC22-3647	3523.93	3181	342.93	982.37	782	1465	174.5	656	103.5	173	10.3	65.2	8.27	40.1	7.16	18.45	2.49	15.55	2.41	3.7
241.14	246.06	HC22-3648	3694.26	3359.5	334.76	1026.83	835	1545	185.5	686	108	167.5	10.3	65.7	8.03	39.3	7.08	17.65	2.39	14.55	2.26	3.7
246.06	250.98	HC22-3650	3553.54	3215.5	338.04	984.06	800	1480	176.5	656	103	169.5	9.88	65.4	8.06	40.5	7.05	17.8	2.41	15.1	2.34	3
250.98	255.91	HC22-3651	3311.13	2987.3	323.83	919.5	729	1385	164	611	98.3	161	9.64	63.2	7.8	38.4	6.89	17.65	2.3	14.65	2.3	4.1
255.91	260.83	HC22-3652	3149.17	2852.1	297.07	868.01	710	1315	155.5	580	91.6	150	10.3	57.1	7.01	33.9	6.14	15.1	2.13	13.3	2.09	3.7
260.83	265.75	HC22-3653	3624.36	3291	333.36	1001.29	812	1525	180	669	105	166.5	10.85	64.5	7.99	39.3	7.06	17.7	2.29	14.9	2.27	3
265.75	270.67	HC22-3654	3289.41	2978.8	310.61	908.04	750	1365	164.5	604	95.3	154.5	10.4	59.7	7.54	36.7	6.56	16.65	2.24	14.15	2.17	3.3
270.67	275.59	HC22-3655	3541.74	3204	337.74	988.61	794	1470	177	660	103	168	10.3	65.6	8.11	40.5	7.1	18.25	2.39	15.1	2.39	3.2
275.59	280.51	HC22-3656	3485.7	3148	337.7	968.76	782	1445	171.5	646	103.5	170	10.3	65.4	7.96	39.8	7.12	17.8	2.37	14.6	2.35	5.1
280.51	285.43	HC22-3657	3446.54	3114	332.54	955.14	776	1430	170	635	103	168.5	10.15	63	7.84	39.3	6.85	17.5	2.36	14.7	2.34	4.2

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM014	*4,635,229.56*	*475,703.61*	*5,665.76*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-3658	2845.15	2538.2	306.95	797	615	1170	140.5	525	87.7	154.5	10.15	56.8	7.1	36.7	6.41	16.8	2.22	14.05	2.22	3.7
290.35	295.28	HC22-3659	3316.9	3012.6	304.3	902.46	759	1395	164	601	93.6	150	10.1	60.4	7.36	36.5	6.43	15.7	2.14	13.6	2.07	4.8
295.28	300.20	HC22-3660	3391.71	3082.6	309.11	936.66	770	1420	169.5	624	99.1	154	9.68	60.7	7.46	36.6	6.32	16.05	2.2	13.95	2.15	4.3
300.20	305.12	HC22-3661	3778.56	3433.5	345.06	1031.75	855	1595	187	691	105.5	173.5	10.35	67.3	8.05	40.2	7.2	18.25	2.44	15.3	2.47	4
305.12	310.04	HC22-3662	3500.44	3177.2	323.24	960.94	802	1460	175	642	98.2	162.5	10.25	62.6	7.54	38.2	6.6	17.2	2.29	13.8	2.26	5
310.04	314.96	HC22-3663	4082.43	3717	365.43	1116.59	895	1755	195.5	763	108.5	188	11.05	67.8	8.39	41.2	7.56	19.75	2.55	16.55	2.58	4
314.96	319.88	HC22-3664	3690.5	3352.7	337.8	1017.07	797	1585	177.5	695	98.2	174.5	10.4	62.4	7.67	38.7	6.97	17.45	2.36	15	2.35	3.8
319.88	324.80	HC22-3665	3706.74	3372.5	334.24	1014.15	805	1600	178.5	692	97	169	10.75	64.1	7.75	38.9	6.83	17.45	2.38	14.7	2.38	4.8
324.80	329.72	HC22-3666	3464.8	3146.4	318.4	948.03	752	1490	165	648	91.4	162.5	10.5	60.3	7.43	36.2	6.61	16.65	2.21	13.75	2.25	3.5
329.72	334.65	HC22-3667	3591.69	3283.1	308.59	982.25	784	1560	173.5	671	94.6	155	10.55	59.7	7.25	35.9	6.43	16.2	2.15	13.25	2.16	3.7
334.65	339.57	HC22-3668	3565.11	3269.7	295.41	963.28	778	1570	171	660	90.7	147.5	10.4	58.2	7.08	34.5	6.1	15.45	1.98	12.3	1.9	4.7
339.57	344.49	HC22-3670	3409.07	3125	284.07	927.37	747	1490	163	635	90	141	10.5	57	6.77	32.6	5.83	14.35	1.89	12.2	1.93	4.3
344.49	349.41	HC22-3671	3904.51	3557	347.51	1065.44	856	1685	187.5	727	101.5	173	11.35	68.7	8.34	41.1	7.13	18.1	2.41	15.1	2.28	4.3
349.41	354.33	HC22-3672	3731.93	3400.4	331.53	1011.84	819	1615	178	690	98.4	170	10.9	62.6	7.74	37.7	6.71	17	2.31	14.3	2.27	4.9
354.33	359.25	HC22-3673	3787.81	3458.8	329.01	1027.02	837	1640	181.5	702	98.3	167	10.85	63.1	7.72	37.5	6.77	16.85	2.31	14.5	2.41	3.7
359.25	364.17	HC22-3674	3771.67	3443	328.67	1028.13	830	1630	180	705	98	167.5	10.9	63.1	7.73	37.4	6.58	17	2.21	14	2.25	4.5
364.17	369.09	HC22-3675	3605.02	3288.4	316.62	987.03	786	1560	172.5	674	95.9	160	10.9	60.7	7.43	37.2	6.45	15.8	2.18	13.75	2.21	4.2
369.09	374.02	HC22-3676	3742.86	3422.6	320.26	1023.71	813	1630	180.5	701	98.1	163	10.7	61.3	7.51	36.6	6.59	16.65	2.14	13.6	2.17	4.4
374.02	378.94	HC22-3677	3646.23	3321.6	324.63	990.36	801	1575	174	677	94.6	165.5	10.8	61.5	7.56	37.2	6.53	16.8	2.3	14.2	2.24	4.7
378.94	383.86	HC22-3678	3874.32	3554.2	320.12	1047.37	861	1690	186	718	99.2	161	11.15	62.9	7.47	36.7	6.51	16.45	2.19	13.55	2.2	3.3
383.86	388.78	HC22-3679	3872.14	3564	308.14	1059.06	858	1690	186.5	729	100.5	154.5	10.3	60.7	7.36	35.7	6.32	16	2.09	13.2	1.97	3.2
388.78	393.70	HC22-3680	3491.37	3216.8	274.57	954.66	775	1525	169.5	658	89.3	138.5	9.93	53.5	6.26	31.6	5.55	13.95	1.84	11.55	1.89	4.3
393.70	398.62	HC22-3681	3811.55	3530.4	281.15	1032.94	862	1675	184	714	95.4	139.5	10.8	56.9	6.64	32.9	5.54	13.75	1.82	11.5	1.8	3.3
398.62	403.54	HC22-3682	4119.71	3776	343.71	1127.03	907	1790	198.5	773	107.5	174	11.15	67.2	8.13	39.9	7.07	17.3	2.33	14.25	2.38	3.9
403.54	408.46	HC22-3683	3714.53	3444.5	270.03	1002.48	834	1645	178.5	694	93	134.5	9.85	55.3	6.28	30.7	5.42	13.4	1.76	11.15	1.67	3.9
408.46	413.39	HC22-3684	4546.3	4231	315.3	1240.35	1005	2030	223	858	115	153.5	11.95	67.5	7.75	36.6	6.21	15.1	2.05	12.6	2.04	4.7
413.39	418.31	HC22-3685	3822.93	3581.1	241.83	1029.12	865	1720	186	717	93.1	117	10.1	53.3	5.92	27.1	4.73	11.6	1.46	9.18	1.44	2.9
418.31	423.23	HC22-3686	3563.82	3270.6	293.22	962.71	792	1555	172	661	90.6	150.5	10.4	56.7	6.61	32.5	5.92	14.55	1.91	12.2	1.93	3.7
423.23	428.15	HC22-3687	3787.25	3478.5	308.75	1035.25	831	1655	183	711	98.5	155.5	10.65	60.7	7.35	35.4	6.19	15.6	2.08	13.1	2.18	4.2

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM014	4,635,229.56	475,703.61	5,665.76	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-3688	3533.96	3253.3	280.66	957.04	785	1550	170	659	89.3	140.5	10.55	55.6	6.54	32.2	5.64	14.1	1.85	11.8	1.88	3.5
433.07	437.99	HC22-3689	3519.61	3235.9	283.71	953.93	776	1545	170	654	90.9	143	10.7	55.4	6.53	32.5	5.68	14.15	1.92	11.95	1.88	4.7
437.99	442.91	HC22-3691	3616.19	3352.3	263.89	981.4	812	1595	177.5	677	90.8	130.5	10.3	55.1	6.4	29.7	5.28	12.7	1.7	10.6	1.61	3.7
442.91	447.83	HC22-3692	3417.47	3161.3	256.17	924.94	761	1510	165	639	86.3	128.5	10.15	51.4	5.94	28.7	5.06	12.75	1.69	10.3	1.68	4.3
447.83	452.76	HC22-3693	3808.68	3527.6	281.08	1033.86	853	1680	186	713	95.6	139.5	10.65	57.2	6.76	32.5	5.62	13.7	1.81	11.55	1.79	4.4
452.76	457.68	HC22-3694	3474.79	3203.7	271.09	939.59	766	1535	167.5	648	87.2	136	10.55	53.5	6.29	30.6	5.45	13.9	1.79	11.2	1.81	3.9
457.68	462.60	HC22-3695	3467.44	3194.2	273.24	941.65	761	1530	168.5	648	86.7	135.5	10.1	55.1	6.45	32	5.52	13.55	1.76	11.5	1.76	4.1
462.60	467.52	HC22-3696	4351.93	4025.5	326.43	1182.97	963	1925	213	814	110.5	162	11.75	67.2	7.77	37.7	6.53	16.25	2.14	13	2.09	4.4
467.52	472.44	HC22-3697	4561.03	4237.5	323.53	1231.61	1020	2030	220	855	112.5	159.5	11.95	68	7.71	36.4	6.46	15.9	2.09	13.5	2.02	5.2
472.44	477.36	HC22-3698	3371.79	3090.2	281.59	916.89	747	1465	162.5	629	86.7	141.5	10.7	54.7	6.79	31.9	5.56	14.6	1.9	12.05	1.89	5.1
477.36	482.28	HC22-3699	3235.8	2964.2	271.6	890.34	707	1405	156	608	88.2	133.5	10.45	55.2	6.54	31.6	5.53	13.55	1.89	11.55	1.79	3.5
482.28	487.20	HC22-3700	3104.77	2833.3	271.47	853.86	677	1340	149	582	85.3	135.5	9.7	53.3	6.36	31.2	5.63	13.7	1.95	12.15	1.98	4.4
487.20	492.13	HC22-3701	3705.11	3391.2	313.91	1010.65	820	1605	177.5	689	99.7	156.5	10.9	61.8	7.45	37	6.35	15.85	2.21	13.65	2.2	4.7

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM015	*4,635,052.85*	*475,622.76*	*5,669.28*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-3702	1851.09	1513.3	337.79	508.27	329	720	80.7	324	59.6	194	7.85	45	6.47	37.5	7.01	18.6	2.65	16.35	2.36	12.2
4.92	9.84	HC22-3703	492.57	389.35	103.22	134.24	90.3	178	21.2	85	14.85	59.3	2.35	12.95	1.89	11.3	2.2	5.98	0.83	5.62	0.8	16.3
9.84	14.76	HC22-3704	604.03	479.55	124.48	164.95	110.5	220	26.7	103	19.35	71.7	2.95	15.95	2.4	13.5	2.59	7.22	1.02	6.22	0.93	13
14.76	19.69	HC22-3705	419.57	334.4	85.17	111.14	80.3	153.5	18.05	69.7	12.85	49.1	2.29	10.5	1.53	9.01	1.89	5.05	0.71	4.49	0.6	18
19.69	24.61	HC22-3706	509.56	399.05	110.51	139.17	90.1	183.5	21.8	87.8	15.85	63.7	2.92	13.7	2.02	11.7	2.3	6.66	0.96	5.7	0.85	21.1
24.61	29.53	HC22-3707	2305.02	2006.3	298.72	631.01	461	955	106.5	416	67.8	162.5	8.05	47.4	6.41	34.3	6.35	16.1	2.15	13.55	1.91	9.2
29.53	34.45	HC22-3708	1312.05	1082.4	229.65	349.32	247	515	57.3	226	37.1	135	4.14	29.9	4.32	24.6	4.81	13.05	1.76	10.55	1.52	10.6
34.45	39.37	HC22-3710	1075.36	854.2	221.16	293.01	197.5	389	46.8	188.5	32.4	136.5	4.17	26.1	3.71	21.6	4.48	12.2	1.6	9.47	1.33	14
39.37	44.29	HC22-3711	3310.65	2906.3	404.35	903.89	700	1355	153.5	605	92.8	223	9.26	67.9	8.59	44	8.38	21.2	2.87	16.55	2.6	3.9
44.29	49.21	HC22-3712	3195.41	2836.9	358.51	872.57	675	1340	146.5	583	92.4	186.5	8.97	65.7	8.37	42.3	7.62	18.8	2.45	15.4	2.4	4.7
49.21	54.13	HC22-3713	3042.65	2703.9	338.75	836.75	640	1275	141	558	89.9	175	8.78	62.7	7.95	39.9	7.19	17.8	2.33	14.7	2.4	4.4
54.13	59.06	HC22-3714	3406.07	3032	374.07	939.52	711	1435	158	628	100	192	9.34	70.7	8.92	44.6	7.88	19.55	2.55	16.1	2.43	4.3
59.06	63.98	HC22-3715	3110.39	2743.2	367.19	860.3	650	1285	144	571	93.2	190.5	8.83	67.5	8.4	43.7	7.86	19.55	2.6	15.85	2.4	5
63.98	68.90	HC22-3716	3107.99	2767.8	340.19	862.99	653	1300	146	578	90.8	178	8.4	60.8	7.89	40.3	7.04	17.75	2.47	15.2	2.34	4.7
68.90	73.82	HC22-3717	3401.99	3039.3	362.69	937.51	723	1430	159	629	98.3	189	8.56	66.8	8.41	42.8	7.73	18.75	2.54	15.65	2.45	5.1
73.82	78.74	HC22-3718	3277.61	2951.2	326.41	907.1	701	1390	154	612	94.2	166	7.71	62.6	7.8	39.1	6.91	16.9	2.37	14.8	2.22	4.4
78.74	83.66	HC22-3719	3131.18	2792.8	338.38	872.54	654	1315	146.5	583	94.3	172	8.19	64.3	8.04	40.7	7.15	17.8	2.41	15.4	2.39	4.8
83.66	88.58	HC22-3720	3784.92	3390	394.92	1054.69	803	1590	178	709	110	198.5	8.35	77.3	9.69	48	8.38	21.2	2.8	17.85	2.85	4.3
88.58	93.50	HC22-3721	3452.35	3103	349.35	959.86	734	1460	164	645	100	176	8.07	68.4	8.46	42.4	7.41	18.15	2.49	15.5	2.47	4.2
93.50	98.43	HC22-3722	3299.01	2941.8	357.21	901.22	707	1385	154	601	94.8	183.5	7.73	66.8	8.32	43.1	7.59	19	2.59	16	2.58	4.7
98.43	103.35	HC22-3723	3242.87	2910.2	332.67	887.11	696	1375	152.5	595	91.7	171	7.16	62.8	7.91	40	7.15	17.35	2.36	14.65	2.29	4.4
103.35	108.27	HC22-3724	3176.75	2844	332.75	869.93	677	1345	149.5	583	89.5	170	7.01	62.8	7.93	40	7.19	17.75	2.46	15.35	2.26	4.8
108.27	113.19	HC22-3725	3155.38	2814.6	340.78	859.34	673	1330	147	575	89.6	178	7.43	62.6	7.74	40	7.16	18.15	2.38	15	2.32	4.5
113.19	118.11	HC22-3726	3308.15	2946.8	361.35	902.28	696	1400	154	604	92.8	187.5	7.51	66.5	8.38	43.1	7.62	19.3	2.64	16.3	2.5	4.6
118.11	123.03	HC22-3727	3362	3034.5	327.5	915.29	727	1440	157	616	94.5	166	7.31	63	7.79	40	7.07	17.6	2.36	14.15	2.22	4.6
123.03	127.95	HC22-3728	3434.67	3095.4	339.27	941.6	738	1465	162.5	632	97.9	172	7.99	65.5	8.1	41.1	7.12	18.1	2.46	14.6	2.3	4.5
127.95	132.87	HC22-3730	3433.19	3071.2	361.99	938.34	739	1445	161.5	630	95.7	187.5	8.19	67.1	8.44	42.7	7.66	19.1	2.58	16.3	2.42	4.8
132.87	137.80	HC22-3731	3438.25	3070	368.25	939.75	737	1445	159.5	629	99.5	191.5	8.24	68	8.55	43.2	7.8	19.65	2.67	16.25	2.39	5.2
137.80	142.72	HC22-3732	3021.92	2664.4	357.52	830.27	634	1250	139.5	551	89.9	188	7.86	64.8	8.17	41.7	7.48	19	2.55	15.65	2.31	5.2

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM015	4,635,052.85	475,622.76	5,669.28	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-3733	2682.95	2352.2	330.75	734.85	559	1105	123	486	79.2	174.5	7.42	57.9	7.55	39.1	7.05	17.8	2.4	14.8	2.23	5.7
147.64	152.56	HC22-3734	2785.81	2464	321.81	755.38	579	1175	128.5	503	78.5	169	7.59	56.4	7.18	38.2	6.84	17.75	2.39	14.3	2.16	5.6
152.56	157.48	HC22-3735	2809.69	2489.3	320.39	772.88	592	1170	131.5	512	83.8	167	7.21	57.2	7.48	38.1	6.86	17.75	2.29	14.15	2.35	5.4
157.48	162.40	HC22-3736	2920	2594.4	325.6	804.97	616	1220	137.5	536	84.9	170	7.22	58.9	7.57	39	6.8	17.45	2.25	14.2	2.21	6.8
162.40	167.32	HC22-3737	2686.8	2388.5	298.3	742.86	568	1120	126.5	494	80	156	6.91	53.2	6.96	35.4	6.48	15.9	2.1	13.3	2.05	4.8
167.32	172.24	HC22-3738	3392.92	3044.1	348.82	924.35	740	1430	161	617	96.1	181.5	7.18	63.9	8.25	42	7.44	18.5	2.44	15.15	2.46	7.5
172.24	177.17	HC22-3739	2914.29	2558.5	355.79	802.04	613	1195	135	526	89.5	185.5	6.68	65	8.34	43.2	7.81	19.45	2.5	15.05	2.26	6.3
177.17	182.09	HC22-3740	2815.47	2472.5	342.97	789.14	588	1145	132.5	518	89	181	6.48	62.8	8.14	41.5	7.31	17.75	2.33	13.45	2.21	5.1
182.09	187.01	HC22-3741	2878.36	2549	329.36	795.56	612	1190	135	526	86	168.5	6.43	62.8	7.96	40.6	7.1	17.9	2.25	13.65	2.17	5.4
187.01	191.93	HC22-3742	2615.7	2312.7	303	704.48	557	1095	120	465	75.7	159.5	5.79	54.4	7.18	36.6	6.59	16.4	2.11	12.5	1.93	4.9
191.93	196.85	HC22-3743	2143.51	1875.1	268.41	585.94	438	890	99.1	382	66	141	5	47.5	6.24	32.6	5.85	14.9	1.93	11.55	1.84	4.7
196.85	201.77	HC22-3744	2423.4	2098	325.4	663.17	499	982	111	431	75	175	4.88	56.2	7.47	38.7	7.19	17.5	2.31	14	2.15	5.6
201.77	206.69	HC22-3745	1502.4	1266.1	236.3	421.21	282	597	67.6	270	49.5	127	3.46	38.9	5.41	28.7	5.25	13.5	1.72	10.75	1.61	5.6
206.69	211.61	HC22-3746	2428.54	2116.5	312.04	658.64	505	998	111	429	73.5	167	5.53	52.7	7.14	38	6.66	17	2.27	13.6	2.14	6.1
211.61	216.54	HC22-3747	2276.92	1928.1	348.82	642.94	436	899	104.5	413	75.6	189	5.49	57.8	7.84	42	7.59	18.75	2.59	15.35	2.41	6.8
216.54	221.46	HC22-3748	2644.63	2312.1	332.53	714.26	551	1095	120.5	465	80.6	177	5.59	57	7.56	40.6	7.19	18.4	2.4	14.5	2.29	4.5
221.46	226.38	HC22-3749	2714.83	2387.8	327.03	743.27	577	1115	125	490	80.8	168	7.37	59.4	7.67	39.8	7.05	18.2	2.39	14.8	2.35	5.7
226.38	231.30	HC22-3751	3658.92	3221.5	437.42	1004.25	765	1515	168.5	663	110	229	7.19	79.5	10.35	52.4	9.6	23.9	3.16	19.25	3.07	7.3
231.30	236.22	HC22-3752	4894.76	4406.5	488.26	1347.6	1070	2060	232	901	143.5	252	8.19	93.5	11.8	59.3	10.5	26.2	3.4	20.1	3.27	5.5
236.22	241.14	HC22-3753	3169.03	2746.5	422.53	884.43	649	1275	144.5	577	101	221	7.97	76.1	9.83	52.1	9.25	22.7	2.95	17.8	2.83	4.4
241.14	246.06	HC22-3754	2747.66	2394.9	352.76	764.96	571	1110	127	501	85.9	182	8.26	64.2	8.36	42.7	7.72	19.35	2.41	15.35	2.41	5.4
246.06	250.98	HC22-3755	2019.01	1777.1	241.91	566.62	404	842	94.7	373	63.4	124	5.73	44.7	5.92	29.6	5.18	12.95	1.68	10.5	1.65	5.2
250.98	255.91	HC22-3756	3024.69	2702.6	322.09	837.01	648	1265	142.5	557	90.1	163	8.35	61.1	7.61	39.8	6.75	17.2	2.28	13.8	2.2	4.3
255.91	260.83	HC22-3757	3000.33	2627.2	373.13	836.42	625	1220	139	549	94.2	193.5	8.43	68.3	8.92	45.3	8.08	19.8	2.56	15.7	2.54	4.8
260.83	265.75	HC22-3758	3420.27	3018.5	401.77	955.7	712	1410	160.5	628	108	205	8.79	76.2	9.8	49.4	8.85	21.7	2.74	16.65	2.64	5.3
265.75	270.67	HC22-3759	3521.48	3117.5	403.98	976	741	1460	164	643	109.5	205	8.87	77.5	9.8	49.7	8.71	22	2.74	16.95	2.71	6.2
270.67	275.59	HC22-3760	3066.23	2693.6	372.63	855.15	639	1255	144	560	95.6	189.5	8.47	69.8	9.05	46.5	8.17	20.3	2.57	15.85	2.42	4.6
275.59	280.51	HC22-3761	3747.12	3351	396.12	1039.59	800	1570	177.5	690	113.5	200	8.64	76.9	9.69	48.9	8.43	21.4	2.67	16.65	2.84	3.6
280.51	285.43	HC22-3762	3148.71	2828.6	320.11	870.69	674	1330	148	584	92.6	163.5	8.38	61.1	7.69	38.4	6.68	16.95	2.17	13.15	2.09	4.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM015	4,635,052.85	475,622.76	5,669.28	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-3763	3334.87	3007.6	327.27	922.98	723	1410	160	618	96.6	163	8.83	65.6	8.18	40.2	6.87	16.8	2.23	13.3	2.26	4.4
290.35	295.28	HC22-3764	2766.46	2487.4	279.06	764.62	599	1165	132.5	508	82.9	137.5	8.74	56.1	6.82	34.4	5.89	14.25	1.88	11.6	1.88	4
295.28	300.20	HC22-3765	2819.01	2541.7	277.31	779.32	613	1190	133.5	522	83.2	135.5	9.11	56.6	6.72	33.9	5.85	14.2	1.9	11.65	1.88	2.9
300.20	305.12	HC22-3766	2886.8	2592.5	294.3	797.78	623	1215	138	532	84.5	146	9.08	58.2	7.28	36	6.34	15.6	1.95	11.9	1.95	3.7
305.12	310.04	HC22-3767	2214.07	1981.9	232.17	605.23	473	937	104	403	64.9	118	6.89	43.7	5.53	27.8	4.94	12.35	1.58	9.92	1.46	7.5
310.04	314.96	HC22-3768	2689.53	2417.8	271.73	742.31	580	1135	127.5	497	78.3	134.5	8.53	53.8	6.61	32.9	5.77	14.55	1.81	11.4	1.86	4.7
314.96	319.88	HC22-3770	2864.51	2584.2	280.31	779.68	619	1225	135.5	523	81.7	141.5	8.24	55.2	6.68	32.8	5.97	14.35	1.95	11.8	1.82	2.9
319.88	324.80	HC22-3771	2441.96	2203.2	238.76	656.55	530	1050	113	442	68.2	118	7.48	47.6	5.75	27.6	4.96	13.4	1.64	10.75	1.58	7.4
324.80	329.72	HC22-3772	2762.06	2503.3	258.76	757.92	598	1185	130	510	80.3	123	8.6	54.2	6.42	31.2	5.53	14.75	1.76	11.6	1.7	5.2
329.72	334.65	HC22-3773	2555.13	2309.7	245.43	702.24	554	1090	120	472	73.7	117	8.03	50	6.14	30.4	5.23	13.8	1.73	11.4	1.7	5.7
334.65	339.57	HC22-3774	2952.27	2669.1	283.17	803.32	652	1255	140.5	539	82.6	135	9.38	59.5	7.02	34.2	6.01	15.75	1.94	12.5	1.87	6.4
339.57	344.49	HC22-3775	3477.8	3173.5	304.3	950.12	773	1495	167	642	96.5	145	9.04	64	7.32	37.3	6.35	17.2	2.08	14	2.01	6.8
344.49	349.41	HC22-3776	2187.86	1978.8	209.06	600.57	478	930	103.5	404	63.3	101.5	6	41.9	4.97	24.8	4.39	12	1.5	10.5	1.5	5.4
349.41	354.33	HC22-3777	3319.55	3021.2	298.35	914.06	731	1420	158.5	617	94.7	140	8.59	64.6	7.26	36.6	6.25	16.5	2.11	14.5	1.94	6.9
354.33	359.25	HC22-3778	2971.83	2692.3	279.53	822.45	645	1265	143	553	86.3	133	8.44	59.6	6.85	33.3	6.05	15.6	1.94	12.85	1.9	6.4
359.25	364.17	HC22-3779	2856.24	2600.6	255.64	783.8	628	1225	136.5	531	80.1	123	8.12	54	6.2	30	5.23	13.9	1.8	11.7	1.69	5.6
364.17	369.09	HC22-3780	2327.6	2106.5	221.1	636.23	502	1000	108.5	429	67	107	6.87	45	5.33	26.4	4.7	12.65	1.55	10.15	1.45	8.6
369.09	374.02	HC22-3781	2729.63	2500.1	229.53	743.09	611	1180	130.5	503	75.6	107.5	7.53	50	5.69	28.3	4.76	12.35	1.56	10.4	1.44	5.2
374.02	378.94	HC22-3782	2910.04	2650.6	259.44	807.64	636	1245	139	546	84.6	123	8.44	54.7	6.44	31.6	5.39	14.25	1.86	12.15	1.61	5.8
378.94	383.86	HC22-3783	2581.34	2343.9	237.44	705.27	573	1100	122.5	475	73.4	113	7.43	49.9	5.87	28.5	4.85	13.4	1.66	11.25	1.58	7.2
383.86	388.78	HC22-3784	3268.16	2976.2	291.96	900.27	723	1395	156.5	607	94.7	139.5	8.82	62.1	7.17	34.9	6.21	16.2	2.01	13.15	1.9	5.7
388.78	393.70	HC22-3785	3273.34	2983.2	290.14	903.43	727	1395	157.5	609	94.7	137	8.73	62.8	7.23	35	6.14	16.05	1.98	13.3	1.91	5.9
393.70	398.62	HC22-3786	3350.01	3046.8	303.21	930.1	740	1420	160.5	628	98.3	144.5	9.23	65.3	7.6	35.7	6.33	16.85	2.17	13.5	2.03	5.9
398.62	403.54	HC22-3787	3070.6	2791.7	278.9	847.56	675	1310	145.5	573	88.2	133	7.83	59.4	6.96	33.9	5.91	15.45	1.94	12.65	1.86	7.8
403.54	408.46	HC22-3788	3105.4	2824.1	281.3	856.52	683	1325	149	577	90.1	132.5	8.54	62.4	7.02	33.4	5.86	15.2	1.92	12.6	1.86	6.4
413.39	418.31	HC22-3791	3205.77	2919.8	285.97	872.13	704	1385	154	586	90.8	136	8.48	61.3	7.13	34.2	5.96	16.3	1.96	12.7	1.94	6.9
418.31	423.23	HC22-3792	2764.72	2508.2	256.52	764.25	602	1180	132	515	79.2	122.5	7.8	53.7	6.55	31.5	5.38	14.2	1.78	11.45	1.66	8
423.23	428.15	HC22-3793	2962.59	2694.8	267.79	816.89	642	1275	141.5	552	84.3	127	8.5	58.1	6.89	32.2	5.5	14.1	1.85	11.85	1.8	6.4
428.15	433.07	HC22-3794	3119.47	2844.1	275.37	878.12	697	1310	148.5	596	92.6	128.5	8.91	59.7	6.92	34.1	5.78	15.1	1.88	12.7	1.78	5.7

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM015	*4,635,052.85*	*475,622.76*	*5,669.28*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
433.07	437.99	HC22-3795	3226.81	2944.4	282.41	883.39	712	1390	154	599	89.4	132.5	8.56	61.6	6.79	34.2	5.92	15.7	1.88	13.4	1.86	6.1
437.99	442.91	HC22-3796	2769.1	2512.9	256.2	773.7	612	1165	131.5	524	80.4	121.5	8.35	54.3	6.2	31.6	5.35	13.9	1.68	11.7	1.62	7.1
442.91	447.83	HC22-3797	3095.13	2825.7	269.43	804.7	669	1390	139	543	84.7	128	8.61	56.1	6.6	31.4	5.47	17.8	1.8	11.85	1.8	6.6
447.83	452.76	HC22-3798	3122.31	2852.5	269.81	866.54	686	1340	149.5	585	92	126.5	8.37	59	6.84	33.2	5.68	14.65	1.82	11.95	1.8	5.3
452.76	457.68	HC22-3799	3043.51	2773	270.51	840.17	677	1295	144.5	569	87.5	127.5	8.95	58.4	6.77	32.4	5.68	14.85	1.85	12.45	1.66	6
457.68	462.60	HC22-3800	2616.91	2369.4	247.51	721.8	543	1140	128.5	483	74.9	119.5	7.79	52.3	5.8	29.6	5.17	13.2	1.63	10.9	1.62	5.3
462.60	467.52	HC22-3801	3259.59	2972.4	287.19	901.35	709	1405	161.5	603	93.9	137	9.18	61.1	7.05	35.9	5.87	15.2	1.99	11.95	1.95	4
467.52	472.44	HC22-3802	3024.09	2749.1	274.99	849.81	650	1290	151	568	90.1	130.5	9.17	58.7	6.91	33.8	5.91	15.05	1.96	11.3	1.69	2.3
472.44	477.36	HC22-3803	3374.45	3085.2	289.25	933.9	738	1455	167.5	628	96.7	138	9.68	62.8	7.1	34.6	6.18	14.75	1.95	12.3	1.89	3.3
477.36	482.28	HC22-3804	2804.16	2533.5	270.66	784.19	579	1210	138	523	83.5	132	8.34	54.8	6.69	33	5.64	14.85	2.01	11.5	1.83	6.4
482.28	487.20	HC22-3805	3461.3	3162.9	298.4	966.33	741	1500	173	651	97.9	141	9.02	65.8	7.43	37	6.46	15.15	1.96	12.7	1.88	2.5
487.20	492.13	HC22-3806	3389.99	3094.3	295.69	936.9	731	1470	167.5	630	95.8	139.5	9.42	64.2	7.2	36.4	6.4	15.6	1.93	13.05	1.99	2.9

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM016	*4,634,921.60*	*475,758.58*	*5,669.28*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-3807	1261.22	1110.7	150.52	343.67	248	539	58.6	228	37.1	81.8	3.88	23.6	3.12	16.85	3.26	8.2	1.13	7.51	1.17	10
4.92	9.84	HC22-3808	904.2	781.7	122.5	248.11	178.5	371	42.1	163.5	26.6	67.3	3.13	18.3	2.51	13.4	2.68	6.94	0.94	6.42	0.88	18.1
9.84	14.76	HC22-3809	677.17	581.6	95.57	187.26	138.5	268	31.9	123	20.2	52.7	2.73	14.05	1.96	10.2	2.09	5.64	0.75	4.79	0.66	16.2
14.76	19.69	HC22-3811	528.64	437.85	90.79	147.83	101	201	24.3	95.4	16.15	50.9	2.6	11.85	1.78	10.2	1.91	5.19	0.77	4.89	0.7	17.9
19.69	24.61	HC22-3812	1391.83	1220.4	171.43	386.73	272	585	64	257	42.4	91.7	4.73	27.5	3.78	19.55	3.75	9.57	1.26	8.39	1.2	13.2
24.61	29.53	HC22-3813	700.54	564.5	136.04	196.68	124	261	30.7	126	22.8	78.7	3.02	17.2	2.63	14.55	2.97	7.9	1.09	7.01	0.97	17
29.53	34.45	HC22-3814	1041.16	858.6	182.56	298.41	181	403	46.6	193.5	34.5	102	5.32	25.2	3.61	20.2	4.01	10.45	1.45	8.98	1.34	10.2
34.45	39.37	HC22-3815	3776.07	3424	352.07	1060.16	819	1595	184	716	110	178.5	9.02	67.7	8.26	41.9	7.5	18.55	2.44	15.7	2.5	7.7
39.37	44.29	HC22-3816	2812.92	2534.8	278.12	801.04	618	1155	139.5	541	81.3	140	8.55	53.3	6.64	32.6	5.93	15	1.98	12.15	1.97	5.4
44.29	49.21	HC22-3817	2544.34	2299.5	244.84	711.83	562	1060	126.5	480	71	122	8.63	47.1	5.93	28.4	5.25	13.05	1.74	10.95	1.79	4.8
49.21	54.13	HC22-3818	2407.93	2173.4	234.53	666.89	529	1010	119	452	63.4	117	8.94	44	5.59	26.9	5.02	12.75	1.74	10.8	1.79	4.4
54.13	59.06	HC22-3819	2536.27	2265.3	270.97	704.29	548	1050	123	474	70.3	139.5	8.77	49.1	6.09	30.9	5.73	15.05	1.92	12.05	1.86	4.4
59.06	63.98	HC22-3820	2985.02	2660	325.02	839.99	650	1215	145.5	565	84.5	167.5	9.43	58.6	7.49	37.5	7.09	18.1	2.36	14.65	2.3	5.5
63.98	68.90	HC22-3821	2829.17	2542.3	286.87	804.26	623	1155	140	545	79.3	146	9.24	53	6.56	33.4	5.96	15.65	2.11	12.8	2.15	5.2
68.90	73.82	HC22-3822	2840.32	2561.1	279.22	793.03	642	1165	140.5	535	78.6	140	9.08	53.6	6.63	32.3	6.04	15.05	2.08	12.45	1.99	4.8
73.82	78.74	HC22-3823	2954.9	2657.2	297.7	826.09	653	1220	145.5	557	81.7	149.5	9.47	55.9	6.99	34.9	6.38	16.85	2.17	13.4	2.14	4.2
78.74	83.66	HC22-3824	3016.07	2697.3	318.77	857.37	650	1235	149.5	576	86.8	161.5	9.64	58.9	7.47	37.6	6.84	17.6	2.46	14.5	2.26	4.3
83.66	88.58	HC22-3825	2569.17	2307	262.17	717.33	566	1060	125.5	484	71.5	133	9.3	48	6.03	30.3	5.59	14.2	1.92	11.95	1.88	4.1
88.58	93.50	HC22-3826	3206.55	2901.3	305.25	899.64	719	1325	159.5	610	87.8	154.5	9.77	56.9	7.04	35.3	6.51	17	2.3	13.8	2.13	3.2
93.50	98.43	HC22-3827	2880.86	2580.7	300.16	804.8	628	1190	140.5	542	80.2	151	10	55.8	7.1	35	6.37	16.85	2.22	13.6	2.22	3.5
98.43	103.35	HC22-3828	2913.62	2611.9	301.72	809.88	638	1205	142.5	546	80.4	156	9.94	53.7	6.88	34.1	6.47	16.7	2.23	13.5	2.2	4.1
103.35	108.27	HC22-3830	2687.57	2399.7	287.87	750.58	584	1105	131.5	504	75.2	147	9.84	51.6	6.68	33.2	6.27	15.95	2.14	13.1	2.09	3.4
108.27	113.19	HC22-3831	2815.94	2515.8	300.14	788.42	614	1155	137.5	530	79.3	151	10.4	55.1	7.02	34.6	6.57	16.95	2.26	14	2.24	3.1
113.19	118.11	HC22-3832	2775.28	2481.8	293.48	771.37	611	1140	136	519	75.8	148	9.89	53.7	6.67	33.9	6.47	16.55	2.24	13.9	2.16	3.5
118.11	123.03	HC22-3833	2806.39	2510.6	295.79	780.1	607	1165	137.5	525	76.1	148.5	10.5	54.3	6.9	34.6	6.44	16.4	2.24	13.75	2.16	5.3
123.03	127.95	HC22-3834	2909.94	2619.3	290.64	801.42	648	1210	142.5	541	77.8	145.5	10.7	54	6.72	33.4	6.17	16.4	2.13	13.5	2.12	2.8
127.95	132.87	HC22-3835	2855.11	2555.7	299.41	781.28	631	1185	138.5	525	76.2	150.5	10.7	54.5	6.88	34.7	6.73	16.85	2.28	14.1	2.17	4.2
132.87	137.80	HC22-3836	2844.42	2534	310.42	784.58	623	1170	138	525	78	155	10.8	56.8	7.28	36.3	6.76	17.8	2.43	15	2.25	3.3
137.80	142.72	HC22-3837	2376.48	2121.4	255.08	658.22	514	985	116.5	441	64.9	129.5	8.07	45.9	5.82	30	5.57	14.4	1.95	11.95	1.92	4.9

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM016	4,634,921.60	475,758.58	5,669.28	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
142.72	147.64	HC22-3838	2989.87	2687.2	302.67	828.09	671	1230	147	560	79.2	151.5	10.4	55.6	7.09	34.8	6.55	17.25	2.33	14.9	2.25	3.8
147.64	152.56	HC22-3839	2464.48	2206.1	258.38	679.8	547	1015	120.5	458	65.6	131.5	7.94	46.2	5.8	29.9	5.64	14.95	1.94	12.55	1.96	3.3
152.56	157.48	HC22-3840	2663.75	2377.6	286.15	741.18	571	1105	129.5	499	73.1	144.5	9.72	51.6	6.58	33	6.14	15.85	2.22	14.25	2.29	3.6
157.48	162.40	HC22-3841	3094.11	2775.7	318.41	872.4	673	1275	153.5	590	84.2	159	10.55	59.2	7.5	37.2	6.97	17.6	2.42	15.4	2.57	4.7
162.40	167.32	HC22-3842	2389.04	2152.3	236.74	652.06	536	997	116.5	440	62.8	119	9.58	42.8	5.36	27.4	5.19	13	1.72	10.95	1.74	4
167.32	172.24	HC22-3843	2672.56	2396.4	276.16	734.95	595	1105	130	496	70.4	138.5	10.2	50	6.35	32.2	6.04	15.6	2.16	13	2.11	3.8
172.24	177.17	HC22-3844	2732.05	2453.2	278.85	755.07	602	1135	134	510	72.2	139	10.3	51.3	6.37	32.5	6.18	15.6	2.22	13.2	2.18	4.2
177.17	182.09	HC22-3845	2648.78	2366.2	282.58	724.24	586	1095	128.5	487	69.7	141	9.85	51.2	6.34	32.7	6.19	16.4	2.25	14.35	2.3	4.1
182.09	187.01	HC22-3846	2846.14	2550.1	296.04	782.06	630	1180	138.5	526	75.6	146.5	11.1	54.1	6.96	35	6.54	16.95	2.31	14.35	2.23	4
187.01	191.93	HC22-3847	2641.33	2362.2	279.13	716.58	589	1095	128	481	69.2	141.5	10.05	49.4	6.38	32	6.08	16.15	2.15	13.35	2.07	4
191.93	196.85	HC22-3848	2963.6	2648.8	314.8	810.36	662	1220	144	545	77.8	159	10.6	56.6	7.26	36.3	7.03	18.3	2.47	14.85	2.39	3.8
196.85	201.77	HC22-3850	2803.19	2496.1	307.09	764.15	620	1155	136	511	74.1	156.5	9.93	53.4	7.05	36	6.82	17.7	2.38	15.05	2.26	4.8
201.77	206.69	HC22-3851	3599.67	3225.7	373.97	988.98	800	1490	176.5	663	96.2	189	10.65	66.9	8.68	44.6	8.26	21.7	2.98	18.3	2.9	5.2
206.69	211.61	HC22-3852	2536.71	2268.1	268.61	667.96	578	1060	122.5	442	65.6	135	9.48	46.9	6.26	31.6	6.02	15.7	2.16	13.55	1.94	4.6
211.61	216.54	HC22-3853	2434.17	2168.1	266.07	654.27	542	1010	118	432	66.1	133	9.27	46.5	6.07	32.1	5.92	15.4	2.06	13.75	2	3.9
216.54	221.46	HC22-3854	2612.75	2345.2	267.55	675.13	612	1095	125.5	448	64.7	136.5	8.65	46.1	6.03	30.9	5.89	15.6	2.11	13.9	1.87	4.1
221.46	226.38	HC22-3855	2373.48	2116.1	257.38	620.9	542	989	114	411	60.1	131.5	7.83	43.9	5.9	29.9	5.81	15.15	2.11	13.3	1.98	2.6
226.38	231.30	HC22-3856	2581.89	2311.6	270.29	676.28	588	1085	125	448	65.6	137.5	9.04	46.3	6.18	31.5	5.96	15.8	2.12	13.95	1.94	4.8
231.30	236.22	HC22-3857	2728.56	2434	294.56	726.41	619	1130	133	480	72	149.5	9.18	51.2	6.71	34.7	6.54	17	2.32	15.2	2.21	4.1
236.22	241.14	HC22-3858	2492.74	2230.5	262.24	659.22	568	1040	121	436	65.5	133	8.64	44.9	5.92	30.8	5.98	15.2	2.07	13.75	1.98	4.3
241.14	246.06	HC22-3859	3098.44	2771.2	327.24	828.25	704	1285	151	549	82.2	167	9.39	56.1	7.35	38.7	7.32	19.15	2.55	17.1	2.58	5
246.06	250.98	HC22-3860	3028.07	2700.9	327.17	812.94	684	1250	148.5	537	81.4	165.5	9.44	57.3	7.64	38.4	7.27	19.1	2.6	17.35	2.57	3.7
250.98	255.91	HC22-3861	2748.59	2440.2	308.39	737.39	611	1135	134	487	73.2	156	9.41	53.3	7.09	36.1	6.87	18.15	2.45	16.65	2.37	4.3
255.91	260.83	HC22-3862	3161.78	2819.9	341.88	844.63	714	1310	154.5	558	83.4	173.5	9.16	59.6	7.93	40.8	7.7	20.2	2.65	17.8	2.54	4.8
260.83	265.75	HC22-3863	2711.21	2398.3	312.91	714.07	613	1115	130	467	73.3	161.5	8.57	52.2	7.07	36.7	7.06	18.25	2.49	16.7	2.37	3.7
265.75	270.67	HC22-3864	2239.77	1954.4	285.37	580.61	508	906	104	377	59.4	149.5	7.93	44.9	6.31	33.9	6.61	16.7	2.38	15.1	2.04	3.5
270.67	275.59	HC22-3865	2447.01	2128.6	318.41	671.57	512	990	117.5	439	70.1	166	7.77	51.3	7.07	37.9	7.38	19.15	2.64	16.7	2.5	4.8
275.59	280.51	HC22-3866	2344.61	2037	307.61	633.61	494	952	112.5	412	66.5	162	7.45	48.6	6.81	35.8	6.94	18.65	2.52	16.5	2.34	3.2
280.51	285.43	HC22-3867	2255.19	1944.2	310.99	604.86	468	915	106.5	391	63.7	164.5	7.11	48.1	6.86	36.8	7.18	18.9	2.52	16.7	2.32	4.9

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM016	4,634,921.60	475,758.58	5,669.28	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-3868	2111.9	1793.5	318.4	579.92	419	839	100.5	372	63	170	6.75	48.1	6.92	37.5	7.25	19.65	2.66	17.1	2.47	4.7
290.35	295.28	HC22-3869	2233.41	1901.7	331.71	610.44	451	887	106	393	64.7	178	6.52	49.9	7.34	39.4	7.79	20.1	2.8	17.35	2.51	6.1
295.28	300.20	HC22-3871	2169.77	1829.2	340.57	594.62	427	855	101.5	380	65.7	184	6.75	50.4	7.42	40	8.03	21.1	2.84	17.6	2.43	5
300.20	305.12	HC22-3872	2031.48	1713.7	317.78	552.19	399	808	94.6	351	61.1	170	6.67	47.1	6.99	38.5	7.5	19.5	2.77	16.45	2.3	4.8
305.12	310.04	HC22-3873	2169.83	1825.1	344.73	594.99	425	853	101.5	380	65.6	186.5	6.53	51.5	7.39	40.5	7.98	21.3	2.77	17.8	2.46	4.9
310.04	314.96	HC22-3874	2379.06	1989.3	389.76	649.93	462	932	111	413	71.3	214	6.3	56.1	8.43	46.2	9.16	24	3.21	19.7	2.66	6.5
314.96	319.88	HC22-3875	2620.54	2170.3	450.24	712.91	522	1000	120.5	449	78.8	246	6.16	64.8	9.81	54.8	10.8	28.4	3.69	22.8	2.98	5.5
319.88	324.80	HC22-3876	1311.88	1063.8	248.08	352.11	247	499	59.1	218	40.7	139	3.89	32.5	5.11	29.2	5.96	15.8	2.11	12.85	1.66	3.1
324.80	329.72	HC22-3877	1344.74	1068.8	275.94	355.56	247	504	59.1	219	39.7	158	3.18	34.9	5.56	32.2	6.6	17.8	2.37	13.55	1.78	3.5
329.72	334.65	HC22-3878	1970.47	1664.4	306.07	528.56	396	782	92.6	337	56.8	170.5	5.09	42.2	6.46	35.7	7	18.75	2.51	15.7	2.16	4
334.65	339.57	HC22-3879	1619.44	1336.8	282.64	429.48	315	631	74.4	269	47.4	156.5	4.68	38.6	5.88	32.8	6.54	18.05	2.45	15.15	1.99	3.8
339.57	344.49	HC22-3880	1243.1	1002	241.1	326.93	233	475	54.9	202	37.1	136.5	3.41	30.7	4.83	28.1	5.7	15.2	2.02	12.85	1.79	4
344.49	349.41	HC22-3881	1330.92	1057.7	273.22	349.01	247	498	58.5	214	40.2	159	3.14	32.9	5.31	31	6.37	17.6	2.26	13.9	1.74	3.4
349.41	354.33	HC22-3882	1209.6	960.5	249.1	315.52	225	454	52.5	193.5	35.5	143	2.99	30.1	5.02	29	5.89	15.9	2.23	13.25	1.72	3.4
354.33	359.25	HC22-3883	822.71	652.7	170.01	219.1	153.5	303	36.9	133.5	25.8	97.8	2.16	21	3.4	19.5	4.15	10.7	1.41	8.85	1.04	2.7
359.25	364.17	HC22-3884	1074.75	818.2	256.55	280.9	187.5	384	45.1	169	32.6	151	2.66	27.8	4.8	29.4	6.07	17	2.26	13.8	1.76	2.7
364.17	369.09	HC22-3885	921.59	720	201.59	240.78	166.5	339	40.3	147	27.2	119.5	2.39	22.7	3.78	22.5	4.78	12.8	1.7	10.15	1.29	2.7
369.09	374.02	HC22-3886	1255.39	1028.8	226.59	323.58	250	486	55.8	201	36	130	3.1	28.4	4.68	26.1	5.24	14.15	1.84	11.55	1.53	2.3
374.02	378.94	HC22-3887	1200.66	960.8	239.86	314.53	229	449	52.7	193.5	36.6	137.5	3.14	30.6	4.83	26.9	5.56	15.4	2.07	12.2	1.66	2.3
378.94	383.86	HC22-3888	1260.69	1027.4	233.29	330.02	236	493	54	206	38.4	134.5	2.93	29.5	4.62	27	5.35	14.25	1.97	11.55	1.62	4.3
383.86	388.78	HC22-3890	1613.11	1327.8	285.31	417.41	318	629	69.8	263	48	170	3.1	34.8	5.41	31.2	6.37	16.7	2.32	13.4	2.01	5
388.78	393.70	HC22-3891	1445.62	1170.8	274.82	377.8	271	559	61.9	235	43.9	160.5	3.24	34.6	5.6	31.4	6.22	16.45	2.23	12.8	1.78	4.8
393.70	398.62	HC22-3892	1102.53	873.9	228.63	290.62	191	423	46.7	179	34.2	133.5	2.99	28.6	4.42	26.3	5.21	13.75	1.83	10.5	1.53	4.6
398.62	403.54	HC22-3893	1160.61	929.8	230.81	305.26	210	446	49.5	189	35.3	133.5	2.72	29.6	4.66	26.8	5.35	13.65	1.92	11.1	1.51	3.9
403.54	408.46	HC22-3894	1293.96	1048.1	245.86	344.35	236	501	55.9	216	39.2	142.5	2.96	31.5	4.95	28.3	5.69	14.85	2.04	11.4	1.67	4.2
408.46	413.39	HC22-3895	1288.05	1035.9	252.15	342.08	230	498	55.2	212	40.7	146	3	32.2	5.18	29	5.71	15.15	2.13	12.1	1.68	4.2
413.39	418.31	HC22-3896	1162.85	932.9	229.95	307.8	208	448	50.1	190.5	36.3	134	2.76	28.3	4.5	26.4	5.42	14.15	1.96	10.9	1.56	3.4
418.31	423.23	HC22-3897	1207.69	979.5	228.19	313.68	225	471	52.3	195	36.2	134.5	2.78	28	4.48	25.7	5.1	13.35	1.94	10.85	1.49	4.4
423.23	428.15	HC22-3898	1168.75	948.3	220.45	304.11	217	457	50.4	188.5	35.4	129	2.67	26.9	4.31	25.5	5.05	13.05	1.83	10.65	1.49	3.5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM016	*4,634,921.60*	*475,758.58*	*5,669.28*	*492.13*	*RC*

From Depth	***To Depth***	***Sample No.***					***Light REE***					***Heavy REE***										***Sc***
			TREE	***LREE***	***HREE***	***MREE***	***La***	***Ce***	***Pr***	***Nd***	***Sm***	***Y***	***Eu***	***Gd***	***Tb***	***Dy***	***Ho***	***Er***	***Tm***	***Yb***	***Lu***	
428.15	433.07	HC22-3899	1132.02	883.6	248.42	303.19	188	426	47.9	186	35.7	145.5	2.87	30.2	4.79	28.8	5.63	14.9	2.1	11.95	1.68	3.2
433.07	437.99	HC22-3900	1188.33	976.8	211.53	310.05	220	475	51.8	194	36	123.5	2.65	26.7	4.25	24	4.75	12.55	1.79	9.95	1.39	3.7
437.99	442.91	HC22-3901	1003.89	816.5	187.39	263.28	184.5	394	43.7	164	30.3	108.5	2.49	23.3	3.68	21.6	4.23	11	1.64	9.64	1.31	4
442.91	447.83	HC22-3902	992.52	795.9	196.62	262.77	178.5	381	43	163	30.4	114	2.58	23.6	3.87	22.5	4.58	12.2	1.73	10.05	1.51	4
447.83	452.76	HC22-3903	930.99	762.1	168.89	241.55	172.5	371	40.5	150.5	27.6	98.3	2.48	20.1	3.3	19.65	3.81	10	1.48	8.55	1.22	2.9
452.76	457.68	HC22-3904	1146.88	927.7	219.18	302.54	209	445	49.6	189.5	34.6	127.5	2.69	26.9	4.34	24.5	4.91	13.6	1.93	11.25	1.56	3.7
457.68	462.60	HC22-3905	1082.89	860.2	222.69	290.27	189.5	410	46.7	179.5	34.5	131.5	2.74	26.3	4.27	25.3	4.96	13.2	1.99	10.85	1.58	3.9
462.60	467.52	HC22-3906	898.06	714	184.06	239.58	160	339	38.6	148.5	27.9	107	2.59	21.8	3.58	21	4.24	11.1	1.62	9.76	1.37	3.5
467.52	472.44	HC22-3907	971.43	773.9	197.53	254.67	171	374	40.9	158	30	116	2.73	23	3.77	22	4.4	12.45	1.75	9.98	1.45	4.8
472.44	477.36	HC22-3908	1208.18	976.6	231.58	318.11	221	468	52.3	198	37.3	136.5	2.68	27.7	4.31	26.2	5.3	13.65	1.99	11.55	1.7	4.3
477.36	482.28	HC22-3910	1080.09	868.4	211.69	281.93	194	420	46.7	175	32.7	124.5	2.47	25.1	4.03	23.5	4.75	13.05	1.76	10.95	1.58	4.1
482.28	487.20	HC22-3911	1197.93	968.4	229.53	311.36	221	466	51.8	194	35.6	135.5	2.71	27	4.36	25.6	5.18	13.8	2.06	11.7	1.62	3.9
487.20	492.13	HC22-3912	1230.49	1002	228.49	315.39	230	487	52.8	196.5	35.7	133.5	2.69	27.7	4.39	26	5.16	14.15	2.01	11.25	1.64	3.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM017	*4,634,744.93*	*475,378.12*	*5,713.82*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-3913	853.73	759.7	94.03	226.68	175	371	39.8	150.5	23.4	49.3	2.93	15.35	2.18	10.8	2	5.37	0.74	4.57	0.79	9.4
4.92	9.84	HC22-3914	1469.24	1327.4	141.84	391.29	316	640	69.4	261	41	72.4	4.95	25.7	3.24	16.65	3.1	7.16	1.06	6.51	1.07	8.1
9.84	14.76	HC22-3915	2630.01	2401.2	228.81	725.64	574	1135	128.5	489	74.7	112.5	8.42	45.4	5.64	27.8	4.81	11.5	1.56	9.65	1.53	5
14.76	19.69	HC22-3916	2889.15	2634.8	254.35	798.35	639	1235	140.5	537	83.3	123.5	8.97	51.9	6.45	31.1	5.52	13.05	1.78	10.4	1.68	4.6
19.69	24.61	HC22-3917	3212.84	2917.4	295.44	890.84	694	1375	156	599	93.4	148	9.52	57.7	7.24	35.2	6.31	15.15	2.08	12.3	1.94	5.4
24.61	29.53	HC22-3918	3227.81	2929.2	298.61	894.13	689	1390	156.5	600	93.7	147.5	9.04	59.3	7.53	36.4	6.56	15.55	2.12	12.5	2.11	5.3
29.53	34.45	HC22-3919	3125.95	2823.2	302.75	873.34	670	1325	153	582	93.2	148.5	9.82	59.6	7.54	37.6	6.8	15.8	2.1	12.9	2.09	6
34.45	39.37	HC22-3920	2872.67	2596	276.67	800.95	611	1225	140	536	84	137	9.67	53.2	6.75	34.2	6.14	14.4	1.94	11.55	1.82	4.9
39.37	44.29	HC22-3921	3180.67	2876.1	304.57	885.88	685	1350	154.5	593	93.6	152	9.84	58.3	7.38	37.4	6.67	15.95	2.16	12.75	2.12	5.8
44.29	49.21	HC22-3922	3460.52	3137.5	323.02	960.67	745	1480	168.5	643	101	159	10.25	63.6	8.07	40.1	7.05	16.7	2.22	13.8	2.23	5.6
49.21	54.13	HC22-3923	3177.99	2875.5	302.49	891.49	704	1325	161	593	92.5	149	9.27	60.2	7.29	37.7	6.03	16.2	2.15	12.6	2.05	5.5
54.13	59.06	HC22-3924	3056.87	2751.9	304.97	853.14	678	1265	154.5	565	89.4	155	9.26	57.6	7.04	37.2	6.06	16.1	2.17	12.6	1.94	6.7
59.06	63.98	HC22-3925	3223.42	2900.8	322.62	902.37	726	1320	162	600	92.8	162	9.73	61.7	7.47	40.1	6.51	17.4	2.22	13.45	2.04	6
63.98	68.90	HC22-3926	3338.32	3013.3	325.02	936.89	744	1380	169.5	622	97.8	162	9.85	63.9	7.49	40.1	6.47	17.4	2.18	13.4	2.23	5.7
68.90	73.82	HC22-3927	3640.53	3308.5	332.03	1019.13	804	1535	184.5	681	104	162.5	10.15	67.6	7.93	41.7	6.73	17.5	2.21	13.55	2.16	7.4
73.82	78.74	HC22-3928	3561.49	3243.5	317.99	991.14	799	1500	181	663	100.5	156	10.15	64.3	7.44	39.2	6.39	17.1	2.24	13.05	2.12	7.1
78.74	83.66	HC22-3929	2881.81	2587.1	294.71	809.2	631	1190	144	536	86.1	147.5	9.41	56.4	6.7	36.4	5.92	15.8	2.05	12.6	1.93	6.2
83.66	88.58	HC22-3931	2791.5	2497.9	293.6	781.32	614	1145	138.5	518	82.4	148	9.61	55.7	6.72	35.7	5.81	15.8	2.07	12.25	1.94	7.6
88.58	93.50	HC22-3932	2684.58	2415.5	269.08	755.52	589	1110	136	503	77.5	134.5	8.94	51.8	6.22	32.8	5.38	14.75	1.88	11	1.81	5.8
93.50	98.43	HC22-3933	3332.3	3007.9	324.4	937.75	723	1395	168.5	624	97.4	162.5	9.51	62.5	7.55	40.3	6.43	17.55	2.26	13.6	2.2	6.5
98.43	103.35	HC22-3934	3016.91	2714.6	302.31	850.81	658	1250	151.5	566	89.1	151.5	10.1	57.5	7.01	37.2	5.96	16.45	2.17	12.45	1.97	6.4
103.35	108.27	HC22-3935	2663.69	2405.2	258.49	747.95	590	1105	134	500	76.2	129	9.36	48.9	5.85	31.9	5.18	14.2	1.85	10.6	1.65	5.9
108.27	113.19	HC22-3936	3162.55	2850.2	312.35	894.15	692	1310	160.5	595	92.7	155	9.75	61	7.15	38.8	6.29	16.9	2.18	13.2	2.08	6.1
113.19	118.11	HC22-3937	3111.12	2801.5	309.62	878.83	693	1275	158	584	91.5	155	9.55	59.7	7.13	38.2	6.25	16.85	2.12	12.8	2.02	6
118.11	123.03	HC22-3938	3154.34	2833.6	320.74	892.43	694	1295	159	591	94.6	160.5	10.1	61.1	7.43	40.4	6.39	17.45	2.24	13	2.13	5.8
123.03	127.95	HC22-3939	3332.73	3004.5	328.23	935.53	737	1380	168	622	97.5	164	9.71	63.7	7.53	40.5	6.62	18.1	2.18	13.7	2.19	5.3
127.95	132.87	HC22-3940	3201.85	2883.9	317.95	904.05	702	1325	162	600	94.9	158.5	9.94	61.2	7.45	39.7	6.45	17.45	2.23	13	2.03	6.2
132.87	137.80	HC22-3941	3127.22	2798.2	329.02	889.16	682	1275	156.5	590	94.7	165.5	9.67	62.3	7.66	40.3	6.7	18.4	2.35	13.9	2.24	6.2
137.80	142.72	HC22-3942	3157.68	2834.4	323.28	890.46	692	1300	159	590	93.4	161.5	9.52	61.6	7.56	40.5	6.63	18.25	2.31	13.35	2.06	6.5

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM017	*4,634,744.93*	*475,378.12*	*5,713.82*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-3943	3266.4	2941.7	324.7	924.46	715	1350	164	616	96.7	163.5	9.25	62	7.56	40.2	6.53	17.9	2.27	13.4	2.09	6.5
147.64	152.56	HC22-3944	3194.63	2855.3	339.33	907.18	693	1305	160	600	97.3	171.5	9.49	63.8	7.88	42	6.97	18.55	2.46	14.35	2.33	6.7
152.56	157.48	HC22-3945	2875.68	2561.2	314.48	818.17	624	1165	144.5	540	87.7	158.5	9.62	58.7	7.07	38.9	6.31	17.45	2.29	13.45	2.19	5.7
157.48	162.40	HC22-3946	2936.94	2633	303.94	834.06	644	1200	148.5	553	87.5	152	9.33	58	7.06	38	6.15	16.65	2.15	12.65	1.95	5.8
162.40	167.32	HC22-3947	2750.37	2460.9	289.47	776.84	601	1125	138.5	514	82.4	146.5	9.26	54.1	6.54	35.4	5.84	15.65	2.03	12.2	1.95	5.7
167.32	172.24	HC22-3948	2978.83	2679.2	299.63	840.88	657	1225	151.5	558	87.7	150.5	9.34	56.7	6.98	36.7	6.08	16.45	2.14	12.7	2.04	6.6
172.24	177.17	HC22-3950	3091.54	2785.8	305.74	876.83	684	1270	157.5	584	90.3	154.5	9.25	58.2	7.03	38	6.16	16.35	2.05	12.3	1.9	5.9
177.17	182.09	HC22-3951	2770.3	2485.7	284.6	783.87	609	1135	139.5	521	81.2	141	9.4	54.9	6.67	35.5	5.8	15.4	2.03	12.05	1.85	5.8
182.09	187.01	HC22-3952	3050.23	2735.8	314.43	862.21	670	1250	153	572	90.8	159	9.43	58.7	7.21	39.2	6.34	17.25	2.26	13	2.04	5.8
187.01	191.93	HC22-3953	3253.7	2914.8	338.9	919.18	701	1345	164	610	94.8	170	10.1	64.6	7.88	42.5	6.75	18.35	2.37	14.1	2.25	8
191.93	196.85	HC22-3954	3133.62	2815.9	317.72	885.59	682	1295	158	588	92.9	160	9.68	60.1	7.29	39.4	6.29	17.45	2.24	13.2	2.07	6.7
196.85	201.77	HC22-3955	3038.14	2721.9	316.24	861.41	662	1245	153.5	570	91.4	159	9.74	59.8	7.31	39.2	6.32	16.95	2.2	13.6	2.12	7.4
201.77	206.69	HC22-3956	3247.86	2924.9	322.96	914.93	718	1340	164	608	94.9	159.5	9.98	63	7.63	40.4	6.53	17.8	2.29	13.6	2.23	6.9
206.69	211.61	HC22-3957	3206.18	2881.8	324.38	902.95	707	1320	162	599	93.8	161	10.15	63.3	7.65	40.5	6.49	17.4	2.3	13.4	2.19	7.4
211.61	216.54	HC22-3958	3241.42	2901.6	339.82	922.83	704	1325	163	612	97.6	170.5	10.25	64.3	7.93	42.3	6.8	18.7	2.45	14.35	2.24	7.8
216.54	221.46	HC22-3959	3074.52	2764.8	309.72	824.66	674	1310	137.5	555	88.3	156.5	9.97	59.6	7.26	36.6	6.27	15.65	2.11	13.75	2.01	6.1
221.46	226.38	HC22-3960	3213.24	2895.1	318.14	873.72	712	1355	146	586	96.1	161	9.45	61.3	7.42	38.2	6.35	16.1	2.31	13.95	2.06	6.7
226.38	231.30	HC22-3961	3574.29	3226.5	347.79	960.76	770	1545	161.5	647	103	178	9.65	67	8.06	41.2	6.98	17.7	2.38	14.6	2.22	7.3
231.30	236.22	HC22-3962	3980.12	3600.5	379.62	1070.73	858	1725	181	722	114.5	193	9.66	74.9	8.73	44.5	7.55	19.15	2.67	16.95	2.51	6.5
236.22	241.14	HC22-3963	3076.08	2790.6	285.48	817.79	684	1330	138.5	551	87.1	142.5	9.6	55.9	6.79	34.4	5.86	14.4	1.92	12.25	1.86	5.4
241.14	246.06	HC22-3964	2626.78	2356.2	270.58	694.15	565	1135	117	463	76.2	137	9.08	52.3	6.25	31.7	5.47	13.1	1.94	12	1.74	6.4
246.06	250.98	HC22-3965	3127.48	2836.4	291.08	835.03	672	1370	142	564	88.4	146.5	9.55	56.4	6.93	33.7	5.92	14.8	2.02	13.3	1.96	5
250.98	255.91	HC22-3966	3149.36	2851.5	297.86	849.99	695	1350	143.5	571	92	149	9.37	58.3	6.89	36.6	5.91	14.6	2.11	13.15	1.93	6.1
255.91	260.83	HC22-3967	2776.91	2507.6	269.31	732.21	593	1220	126	492	76.6	136	8.89	52.1	6.21	31.4	5.4	13.85	1.88	11.8	1.78	5.4
260.83	265.75	HC22-3968	3177.29	2862.6	314.69	848.38	679	1380	143	569	91.6	159	9.17	61.4	7.68	37.1	6.37	16	2.17	13.7	2.1	6.4
265.75	270.67	HC22-3970	3247.44	2938.7	308.74	868.48	699	1415	147.5	585	92.2	156.5	9.08	59.3	7.18	36.6	6.26	15.45	2.12	14.2	2.05	7
270.67	275.59	HC22-3971	3090.97	2807.9	283.07	833.59	689	1325	141.5	564	88.4	143	9.11	55.2	6.69	33	5.54	13.85	1.96	12.85	1.87	5.4
275.59	280.51	HC22-3972	2379.15	2089.7	289.45	652.12	496	982	105	430	76.7	150	9.04	52.3	6.52	33.9	5.88	15.05	2.09	12.75	1.92	6.9
280.51	285.43	HC22-3973	2293.81	2027.4	266.41	629.44	474	961	101.5	420	70.9	135.5	8.92	49.7	6.04	31	5.38	13.1	2	12.85	1.92	5.5

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM017	*4,634,744.93*	*475,378.12*	*5,713.82*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-3974	2699.36	2443.4	255.96	726.27	593	1160	122.5	489	78.9	128.5	8.92	49.7	5.97	29.9	5.07	12.65	1.74	11.75	1.76	5.2
290.35	295.28	HC22-3975	3700.82	3381	319.82	988.78	822	1615	168	674	102	160	9.05	64.7	7.58	37.2	6.38	16.05	2.27	14.4	2.19	6.2
295.28	300.20	HC22-3976	3293.06	2997	296.06	867.5	720	1450	147.5	588	91.5	150.5	8.81	57.9	6.8	33.7	5.71	14.85	2.14	13.6	2.05	6.2
300.20	305.12	HC22-3977	3191.75	2901.4	290.35	846.96	701	1395	145	571	89.4	144.5	8.89	58	6.86	34.7	5.89	14.45	2.06	13.1	1.9	6.7
305.12	310.04	HC22-3978	3437.04	3108	329.04	935.53	754	1465	157	631	101	165.5	8.99	65.5	7.73	38.8	6.71	16.2	2.3	15.1	2.21	7.2
310.04	314.96	HC22-3979	3335.42	3031.6	303.82	885.26	734	1455	151	597	94.6	153	9.27	60.2	7.16	35.5	5.94	15.15	2.11	13.45	2.04	6.2
314.96	319.88	HC22-3980	3127.48	2850.3	277.18	823.72	690	1375	140	559	86.3	138	9.09	56.3	6.52	31.9	5.54	13.75	1.97	12.35	1.76	5.7
319.88	324.80	HC22-3981	3089.02	2799.7	289.32	835.04	676	1330	140	564	89.7	145	8.83	57.7	6.64	34.7	5.8	13.95	2.03	12.8	1.87	7
324.80	329.72	HC22-3982	2965.96	2693.7	272.26	795.67	661	1275	135.5	539	83.2	136	9.16	53.7	6.27	31.7	5.5	13.95	1.86	12.4	1.72	6.6
329.72	334.65	HC22-3983	2936.91	2648.5	288.41	791.35	638	1260	132	533	85.5	145	9.34	56.1	6.55	34.3	5.77	14.3	2.06	13.05	1.94	6.4
334.65	339.57	HC22-3984	3113.8	2827.4	286.4	839.96	688	1340	140	570	89.4	145	8.96	55.9	6.66	33.9	5.72	13.7	2.07	12.65	1.84	5.8
339.57	344.49	HC22-3985	3432.55	3110.5	322.05	929.06	748	1480	157	625	100.5	160	9.38	64.6	7.86	38.7	6.65	16.5	2.21	14.05	2.1	6.2
344.49	349.41	HC22-3986	3146.08	2838	308.08	856.12	681	1345	142.5	578	91.5	156.5	9.31	58.8	7.32	36.8	6.24	15.25	2.06	13.7	2.1	4.8
349.41	354.33	HC22-3987	3209.64	2933	276.64	858.27	709	1405	147	582	90	138.5	9.33	55.2	6.47	32.8	5.4	13.15	1.9	12.15	1.74	4.8
354.33	359.25	HC22-3988	3027.85	2745.7	282.15	815.7	655	1315	139	551	85.7	140	8.83	56.4	6.8	33.2	5.75	14.05	2.01	13.25	1.86	6
359.25	364.17	HC22-3989	2899.96	2622.6	277.36	792.17	639	1230	134.5	533	86.1	141.5	8.72	53.2	6.37	32.2	5.44	13.8	1.89	12.5	1.74	6.1
364.17	369.09	HC22-3991	3177.7	2890.4	287.3	855.63	695	1380	144.5	581	89.9	145.5	8.88	55.8	6.63	33.6	5.72	14.25	2	13	1.92	5.9
369.09	374.02	HC22-3992	3436.47	3144.3	292.17	911.82	773	1500	159	620	92.3	146	9.23	58.7	6.72	33.8	5.67	14.95	2	13.15	1.95	6.7
374.02	378.94	HC22-3993	3158.78	2869.4	289.38	824.89	705	1380	142	558	84.4	146	9.44	55.8	6.59	33.9	5.93	14.25	2.11	13.4	1.96	7
378.94	383.86	HC22-3994	2365.2	2005.4	359.8	643.24	475	937	100.5	416	76.9	191	9.94	58.4	7.54	42.3	7.53	18.65	2.74	18.9	2.8	16.6
383.86	388.78	HC22-3995	2379.77	2014.9	364.87	640.96	487	938	107	406	76.9	197.5	10.75	53.4	7.46	43.6	7.83	21.6	2.74	17.25	2.74	19.1
388.78	393.70	HC22-3996	2396.86	2027.8	369.06	651.33	484	946	107.5	413	77.3	198	11.05	53.9	7.83	45.7	7.99	21.9	2.84	17.1	2.75	18.7
393.70	398.62	HC22-3997	2396.18	2020.3	375.88	659.43	471	942	108	418	81.3	205	11.35	54.5	7.73	44.4	7.96	22.1	2.8	17.3	2.74	19.3
398.62	403.54	HC22-3998	2827.8	2517.4	310.4	755.95	611	1195	132.5	495	83.9	162.5	8.72	52.2	6.85	37.7	6.44	17.45	2.27	14.1	2.17	8.7
403.54	408.46	HC22-3999	3324.26	2997.3	326.96	895.55	730	1420	160.5	591	95.8	166.5	9.23	58.8	7.55	40.7	6.91	18.6	2.36	14.05	2.26	7
408.46	413.39	HC22-4000	3204.41	2865.8	338.61	866.83	694	1355	153	569	94.8	172	9.53	61.2	7.73	42.3	7.21	19.25	2.39	14.75	2.25	7.5
413.39	418.31	HC22-4001	2954.57	2658.7	295.87	789.75	651	1260	141.5	522	84.2	153	8.93	52.3	6.65	35.4	6.22	16.45	2.04	12.9	1.98	7.7
418.31	423.23	HC22-4002	3828.41	3417.5	410.91	1042.57	810	1625	182	685	115.5	212	9.61	73.6	9.47	50.6	8.82	23.4	2.9	17.7	2.81	8.8
423.23	428.15	HC22-4003	3938.96	3552.5	386.46	1050.17	863	1695	188.5	696	110	202	8.94	67.8	8.67	47	8.12	21.6	2.73	16.95	2.65	6.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM017	4,634,744.93	475,378.12	5,713.82	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
428.15	433.07	HC22-4004	3711.2	3268	443.2	987.92	787	1555	174.5	643	108.5	241	7.93	69.9	9.42	52.5	9.26	26	3.34	20.7	3.15	8.1
433.07	437.99	HC22-4005	4221.34	3843	378.34	1118.07	939	1840	210	737	117	196.5	8.99	68.4	8.67	45.4	7.84	21	2.62	16.3	2.62	7.1
437.99	442.91	HC22-4006	3171.69	2875.8	295.89	848.88	714	1355	152	566	88.8	152	9.44	53.4	6.68	35.4	6.08	16.1	2.05	12.7	2.04	7.2
442.91	447.83	HC22-4007	2836.21	2555.4	280.81	763.93	622	1210	137.5	505	80.9	142	9.85	50.3	6.23	34.3	5.84	16.25	2.01	12.1	1.93	5.7
447.83	452.76	HC22-4008	2929.05	2648	281.05	777.12	651	1260	140.5	515	81.5	143.5	10	50.5	6.42	33.7	5.77	15.2	1.97	12.1	1.89	6.1
452.76	457.68	HC22-4010	2776.58	2496.9	279.68	739.68	613	1185	132	487	79.9	142	9.77	49.9	6.48	34.3	5.78	15.35	1.96	12.3	1.84	6.4
457.68	462.60	HC22-4011	3624.54	3229	395.54	986.64	780	1520	172.5	647	109.5	205	9.71	69.4	8.94	48.7	8.35	22.3	2.86	17.4	2.88	8.1
462.60	467.52	HC22-4012	2566.38	2303.1	263.28	686.21	565	1090	123	452	73.1	133.5	9.37	46.2	5.91	32.2	5.41	14.95	1.91	12	1.83	6
467.52	472.44	HC22-4013	2804.35	2502.3	302.05	758.87	612	1175	133.5	500	81.8	158	9.31	50.8	6.57	37	6.21	16.9	2.17	13.1	1.99	6.6
472.44	477.36	HC22-4014	2680	2389	291	722.47	583	1125	126.5	476	78.5	152	9.06	49.5	6.37	35.1	6.03	16.55	2.05	12.25	2.09	6.9
477.36	482.28	HC22-4015	2741.27	2442.4	298.87	732.42	593	1160	129.5	481	78.9	154	9.69	51.9	6.52	36.5	6.18	16.9	2.15	13.05	1.98	5.7
482.28	487.20	HC22-4016	2803.31	2497	306.31	752.56	604	1185	132.5	494	81.5	157.5	10	52.7	6.86	37.7	6.55	17.25	2.12	13.55	2.08	6.1
487.20	492.13	HC22-4017	2565.41	2297.3	268.11	681.01	565	1090	121.5	449	71.8	137	9.28	47.3	6.01	32.7	5.69	14.9	1.93	11.5	1.8	5.7

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM018	*4,635,079.42*	*475,194.78*	*5,701.21*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-4018	963.12	854.6	108.52	255.08	204	410	45.5	168	27.1	58.5	3.68	16.75	2.28	12.2	2.22	6	0.82	5.28	0.79	9.3
4.92	9.84	HC22-4019	2757.11	2506.1	251.01	742.58	615	1185	133.5	493	79.6	125.5	7.59	48.1	5.78	30.7	5.17	13.8	1.78	10.85	1.74	4.3
9.84	14.76	HC22-4020	3104.01	2808.9	295.11	848.34	684	1320	151.5	561	92.4	147	9.42	56.6	6.94	36.5	6.26	15.8	2.04	12.5	2.05	2.6
14.76	19.69	HC22-4021	2830.08	2547	283.08	779.18	624	1185	138	516	84	143.5	8.31	51.9	6.48	34.7	5.85	15.65	1.98	12.65	2.06	3.5
19.69	24.61	HC22-4022	3612.08	3283.5	328.58	979.83	802	1550	175.5	650	106	162	10.15	64.7	7.73	40.6	6.96	18.05	2.26	13.9	2.23	3.8
24.61	29.53	HC22-4023	3092.78	2811.4	281.38	841.37	696	1315	151.5	557	91.9	139.5	9.34	54.7	6.57	34.4	5.71	14.95	1.94	12.35	1.92	3.9
29.53	34.45	HC22-4024	2905.62	2637	268.62	786.07	645	1245	141	521	85	132.5	9.39	51.6	6.17	32.9	5.5	14.85	1.9	11.85	1.96	3
34.45	39.37	HC22-4025	3065.75	2784.7	281.05	825.52	675	1325	148.5	547	89.2	139.5	9.14	53.7	6.52	34.3	5.8	15.35	1.94	12.8	2	2.6
39.37	44.29	HC22-4026	2695.66	2447.8	247.86	726.8	597	1160	130	483	77.8	122.5	8.74	47	5.7	30.3	5.06	13.9	1.76	11.1	1.8	2.4
44.29	49.21	HC22-4027	3156.48	2859.7	296.78	853.27	700	1350	153	564	92.7	146.5	9.6	56.8	6.97	36.6	6.2	16.4	2.14	13.4	2.17	3.2
49.21	54.13	HC22-4028	3826.48	3475	351.48	1035.87	840	1650	186	686	113	175	9.36	69	8.17	42.7	7.32	19.1	2.47	15.8	2.56	3.9
54.13	59.06	HC22-4030	3523.16	3192.5	330.66	958.4	778	1505	169	635	105.5	164	9.74	63.9	7.8	41.1	6.8	17.9	2.27	14.7	2.45	2.6
59.06	63.98	HC22-4031	3310.92	2993.5	317.42	907.17	707	1425	160	602	99.5	155.5	9.67	62.8	7.67	38	6.98	16.75	2.34	15.2	2.51	2.3
63.98	68.90	HC22-4032	4232.15	3827	405.15	1161.5	914	1810	206	771	126	199	10.45	81.4	10.1	48.4	9.01	21.6	2.99	19.05	3.15	3.8
68.90	73.82	HC22-4033	3940.54	3567.5	373.04	1079.53	854	1690	193	714	116.5	177.5	10.45	77.2	9.43	46.6	8.3	19.9	2.72	17.95	2.99	3.3
73.82	78.74	HC22-4034	4568.26	4130	438.26	1275.45	970	1950	242	830	138	210	10.45	91.6	10.95	54.5	9.64	23.4	3.09	21.2	3.43	4.1
78.74	83.66	HC22-4035	4110.21	3715.5	394.71	1131.25	867	1775	203	748	122.5	192	10.55	80.1	9.55	48.2	8.58	20.9	2.92	18.9	3.01	3
83.66	88.58	HC22-4036	4183.45	3779.5	403.95	1155.65	893	1790	206	767	123.5	197.5	10.65	81.8	10.05	49.1	8.98	21.6	2.85	18.35	3.07	3.2
88.58	93.50	HC22-4037	4234.16	3829.5	404.66	1161.1	912	1815	209	769	124.5	198.5	10.5	81.2	9.8	48.8	9.03	22.1	2.96	18.75	3.02	3.3
93.50	98.43	HC22-4038	4170.04	3780	390.04	1148.7	892	1795	210	761	122	192.5	10.25	78.1	9.6	46.1	8.55	20.6	2.76	18.55	3.03	2.9
98.43	103.35	HC22-4039	4092.51	3718	374.51	1124.69	877	1770	203	750	118	184	10.45	75.4	9.09	44.6	8.15	20.3	2.64	17.05	2.83	3.3
103.35	108.27	HC22-4040	4434.21	4002.5	431.71	1223.8	946	1895	222	808	131.5	214	10.25	85.8	10.3	52	9.44	23.5	3.11	20	3.31	3.3
108.27	113.19	HC22-4041	5116.6	4633	483.6	1428.6	1095	2180	270	937	151	237	10.9	97.8	11.7	58.9	10.75	25.9	3.53	23.4	3.72	2.4
113.19	118.11	HC22-4042	4125.96	3736	389.96	1144.38	878	1770	202	765	121	191.5	9.69	78.1	9.28	47.1	8.63	21.5	2.83	18.35	2.98	2.8
118.11	123.03	HC22-4043	5193.43	4719	474.43	1447.55	1100	2240	276	951	152	234	10.6	95.9	11.45	57.1	10.55	25.1	3.39	22.7	3.64	3.7
123.03	127.95	HC22-4044	5043.95	4566	477.95	1405.35	1080	2150	269	918	149	241	10.5	92.9	11.45	57.9	10.55	25	3.33	21.7	3.62	4.1
127.95	132.87	HC22-4045	5123.06	4626.5	496.56	1438.55	1090	2170	273	943	150.5	246	11.15	98.4	11.95	60.1	11.15	26.8	3.61	23.6	3.8	3.3
132.87	137.80	HC22-4046	4001.58	3615	386.58	1097.71	854	1720	196.5	728	116.5	188.5	11.15	77.4	9.51	47.2	8.55	20.7	2.75	17.9	2.92	3.6
137.80	142.72	HC22-4047	3761.52	3416.5	345.02	1028.5	817	1620	184	686	109.5	172	10.45	67.9	8.2	40.8	7.47	18.05	2.36	15.3	2.49	3.1

Rare Earth Element Summary

Drill Hole	***Northing***	***Easting***	***Collar***	***Total Depth***	***Hole Type***
HC22-OM018	*4,635,079.42*	*475,194.78*	*5,701.21*	*492.13*	*RC*

From Depth	***To Depth***	***Sample No.***					***Light REE***					***Heavy REE***										
			TREE	***LREE***	***HREE***	***MREE***	***La***	***Ce***	***Pr***	***Nd***	***Sm***	***Y***	***Eu***	***Gd***	***Tb***	***Dy***	***Ho***	***Er***	***Tm***	***Yb***	***Lu***	***Sc***
142.72	147.64	HC22-4048	3226.42	2920.4	306.02	875.07	695	1395	156.5	581	92.9	150	9.99	59.7	7.27	37.4	6.79	16.35	2.18	14.05	2.29	2.6
147.64	152.56	HC22-4049	3580.41	3236	344.41	984.73	776	1525	174.5	656	104.5	170	10.65	66.8	8.23	41.5	7.55	18.4	2.43	16.35	2.5	3.3
152.56	157.48	HC22-4051	3381.95	3068	313.95	926.98	750	1435	164	621	98	158.5	9.48	60.4	7.38	36.6	6.83	16.1	2.11	14.35	2.2	2.7
157.48	162.40	HC22-4052	3467.36	3159.5	307.86	952.44	767	1485	171	636	100.5	149	10.75	62.8	7.44	37.5	6.71	15.7	2.16	13.6	2.2	2.4
162.40	167.32	HC22-4053	3522.64	3181.5	341.14	959.96	765	1505	171	638	102.5	168.5	10.9	67.3	8.16	40.3	7.4	18.2	2.41	15.5	2.47	3.8
167.32	172.24	HC22-4054	3627.94	3307.5	320.44	991.01	797	1565	178	663	104.5	159	10.25	63.8	7.71	37.8	6.66	16.5	2.27	14.2	2.25	2.3
172.24	177.17	HC22-4055	3655.41	3319	336.41	995.6	801	1570	179.5	663	105.5	168	10.5	65.1	7.8	39.8	7.31	18.1	2.36	15.05	2.39	3.4
177.17	182.09	HC22-4056	3510.82	3181.3	329.52	951.41	766	1510	170.5	635	99.8	166	10.3	63.4	7.61	38.5	7.04	17.25	2.24	14.85	2.33	3.2
182.09	187.01	HC22-4057	3510.77	3189	321.77	964.01	755	1515	171.5	646	101.5	163	9.88	61.7	7.41	37.6	6.84	16.7	2.24	14.2	2.2	3
187.01	191.93	HC22-4058	3519.04	3209.5	309.54	961.14	772	1520	173.5	643	101	153.5	9.81	61.8	7.44	36.2	6.66	15.85	2.17	13.9	2.21	2.7
191.93	196.85	HC22-4059	3981.83	3630.5	351.33	1070.79	859	1750	196	713	112.5	174	10.95	70.1	8.39	40.9	7.61	18.75	2.39	15.7	2.54	3
196.85	201.77	HC22-4060	4161.82	3802	359.82	1137.78	905	1810	213	756	118	182	10.25	70	8.58	42.2	7.59	18.6	2.44	15.6	2.56	3.4
201.77	206.69	HC22-4061	3763.22	3421	342.22	1032.59	818	1620	185.5	690	107.5	166	10.8	69.7	8.19	41.4	7.6	18.2	2.42	15.45	2.46	2.7
206.69	211.61	HC22-4062	3826.05	3489	337.05	1055.29	837	1645	188	708	111	166	10.35	67.6	7.99	40.3	7.39	17.7	2.37	15	2.35	3
211.61	216.54	HC22-4063	3763.29	3421	342.29	1025.61	819	1625	184	685	108	169	10.8	68.5	8.21	40.4	7.45	17.7	2.28	15.35	2.6	3.6
216.54	221.46	HC22-4064	3930.95	3594	336.95	1075.75	866	1700	195	720	113	167	10.2	67.2	8.05	39.7	7.39	17.6	2.37	15.05	2.39	3.2
221.46	226.38	HC22-4065	4209.85	3832.5	377.35	1149.5	911	1825	206	770	120.5	189.5	10.8	74.3	8.9	44.1	8.05	19.65	2.64	16.7	2.71	3.8
226.38	231.30	HC22-4066	3881.94	3541	340.94	1052.02	842	1695	190.5	705	108.5	170.5	10.35	67.2	8.12	39.9	7.36	17.85	2.33	14.95	2.38	3.1
231.30	236.22	HC22-4067	3862.48	3514.5	347.98	1073.98	846	1645	188	728	107.5	171	10.45	68.8	8.28	42.2	7.46	19.05	2.47	15.8	2.47	-0.5
236.22	241.14	HC22-4068	4085.04	3725	360.04	1135.33	898	1745	200	770	112	174	10.9	73	8.93	44.4	7.87	19.6	2.53	16.35	2.46	1.1
241.14	246.06	HC22-4070	3557.64	3250.8	306.84	991.77	784	1520	175	673	98.8	149	10.25	62.1	7.37	37.6	6.62	16.2	2.25	13.3	2.15	1.8
246.06	250.98	HC22-4071	4666.38	4251.5	414.88	1276.9	1015	2020	237	844	135.5	199.5	12.7	85.4	10.5	49.9	9.27	23.1	3.12	18.35	3.04	5.5
250.98	255.91	HC22-4072	3916.78	3573.5	343.28	1064.6	843	1715	199.5	703	113	165.5	11.25	70.9	8.5	40.6	7.74	19.1	2.53	14.7	2.46	4.3
255.91	260.83	HC22-4073	3796.5	3459.5	337	1054.47	829	1625	187	716	102.5	163.5	11.2	67.6	8.17	40.8	7.35	18.4	2.43	15.1	2.45	1.5
260.83	265.75	HC22-4074	3532.03	3217.9	314.13	979.4	780	1505	172	664	96.9	152.5	10.4	62.4	7.5	39	6.91	16.9	2.3	14	2.22	1.4
265.75	270.67	HC22-4075	3713.83	3390	323.83	1034.81	822	1580	184.5	702	101.5	158	10.75	65.7	7.81	39	7.05	16.75	2.21	14.3	2.26	2.8
270.67	275.59	HC22-4076	3797.11	3473.5	323.61	1052.31	848	1620	187.5	716	102	157	11.05	65.6	7.91	38.9	7	17.45	2.25	14.15	2.3	1.7
275.59	280.51	HC22-4077	3827.17	3492	335.17	1066.64	850	1625	188	724	105	162.5	11.3	67.5	8.04	41.6	7.2	17.75	2.34	14.6	2.34	2.5
280.51	285.43	HC22-4078	4042.1	3689	353.1	1116.83	894	1730	197.5	758	109.5	171	11.05	71.3	8.33	43.5	7.98	19.2	2.57	15.7	2.47	0.9

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM018	*4,635,079.42*	*475,194.78*	*5,701.21*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-4079	3931.11	3572	359.11	1100.24	859	1665	191.5	745	111.5	177	10.65	71.4	8.54	43.7	7.87	19.05	2.62	15.85	2.43	-0.5
290.35	295.28	HC22-4080	3841.57	3512	329.57	1066.89	858	1635	189	723	107	158	11.3	68.3	7.99	39.9	7.17	17.3	2.31	14.95	2.35	1.1
295.28	300.20	HC22-4081	4047.81	3682.5	365.31	1134.99	881	1720	201	768	112.5	178	10.85	73.6	8.59	44.9	7.95	19.8	2.66	16.25	2.71	-0.5
300.20	305.12	HC22-4082	3543.31	3234.1	309.21	978.41	786	1515	173.5	664	95.6	149.5	10.6	62.2	7.41	37.9	6.65	16.55	2.24	14	2.16	1.5
305.12	310.04	HC22-4083	3697.17	3369	328.17	1027.16	810	1580	181	697	101	158	10.95	67	7.96	40.2	7.15	17.85	2.39	14.3	2.37	2.2
310.04	314.96	HC22-4084	3806.34	3482.5	323.84	1053.24	847	1630	187.5	715	103	155	11.15	66.4	7.74	40	7.16	16.75	2.39	14.9	2.35	0.9
314.96	319.88	HC22-4085	3832.61	3489	343.61	1069.99	840	1630	188	728	103	166	11.4	69.3	8.19	42.8	7.49	18.65	2.43	15	2.35	2
319.88	324.80	HC22-4086	3610.76	3284	326.76	1003.65	798	1530	177	678	101	158	10.8	65.5	7.85	39.8	7.12	17.85	2.42	15.05	2.37	1.6
324.80	329.72	HC22-4087	3796.48	3466.5	329.98	1052.91	842	1620	186	715	103.5	160.5	11	65.9	7.81	40.6	7.2	17.75	2.34	14.6	2.28	2.2
329.72	334.65	HC22-4088	3708.32	3387	321.32	1027.64	821	1585	182	698	101	156	11.35	64.1	7.64	39	6.92	17	2.24	14.7	2.37	2.4
334.65	339.57	HC22-4090	3506.14	3187.9	318.24	972.98	772	1490	170	659	96.9	153	10.25	64	7.78	39.3	6.86	17.6	2.37	14.8	2.28	1.5
339.57	344.49	HC22-4091	3840.94	3509	331.94	1062.66	850	1645	189	721	104	160	11.15	67.4	7.96	40.7	7.21	17.65	2.37	15.1	2.4	2.4
344.49	349.41	HC22-4092	3683.12	3348.8	334.32	1021.32	806	1570	181	692	99.8	164	10.55	65.3	7.82	40.7	7.16	18.6	2.33	15.4	2.46	1.3
349.41	354.33	HC22-4093	3643.67	3296.5	347.17	1011.88	800	1535	177.5	684	100	171.5	11	67.6	8.28	42.1	7.71	18.45	2.47	15.6	2.46	1.6
354.33	359.25	HC22-4094	3661.04	3331	330.04	1018.89	810	1550	179.5	691	100.5	161.5	11.5	64.9	7.79	40.1	7.05	17.8	2.37	14.65	2.38	2.1
359.25	364.17	HC22-4095	3859.58	3496.5	363.08	1077.2	837	1635	188.5	730	106	178.5	11.75	70.3	8.5	44.2	7.96	20.1	2.66	16.55	2.56	1.3
364.17	369.09	HC22-4096	3495.96	3165.9	330.06	965.16	769	1480	171	652	93.9	162	10.75	64	7.76	40.5	7.26	18.3	2.37	14.75	2.37	2.2
369.09	374.02	HC22-4097	3404.12	3092.1	312.02	943.53	754	1440	166	638	94.1	151.5	10.95	61.4	7.43	38	6.94	16.85	2.27	14.45	2.23	1.2
374.02	378.94	HC22-4098	3607.96	3278.1	329.86	993.75	801	1530	177.5	674	95.6	165	10.4	62.7	7.55	39.1	7.06	18.05	2.48	15.2	2.32	1.1
378.94	383.86	HC22-4099	3599.54	3273.2	326.34	1001.52	784	1535	177.5	679	97.7	160.5	10.75	63.2	7.72	39.6	7.01	18.15	2.43	14.6	2.38	1.5
383.86	388.78	HC22-4100	3079.08	2789.8	289.28	854	678	1300	150	577	84.8	140	10.05	56.9	6.8	35.4	6.45	16.2	2.09	13.35	2.04	1.7
388.78	393.70	HC22-4101	3602.31	3263.1	339.21	997.48	790	1525	176	674	98.1	168	10.75	64.8	7.88	41.5	7.64	18.15	2.55	15.55	2.39	3.2
393.70	398.62	HC22-4102	3265.7	2967.4	298.3	904.7	715	1390	160.5	613	88.9	148	10.7	57.2	7	35.3	6.45	15.8	2.23	13.55	2.07	2.7
398.62	403.54	HC22-4103	3763.91	3402.5	361.41	1048.21	816	1590	179.5	711	106	184.5	11.3	64.8	8.81	42.9	7.71	19.5	2.58	16.65	2.66	4.9
403.54	408.46	HC22-4104	3854.12	3502	352.12	1067.69	850	1635	184.5	726	106.5	177.5	11.85	64.3	8.69	42	7.67	19.3	2.55	15.75	2.51	5
408.46	413.39	HC22-4105	3926.17	3567	359.17	1088.59	855	1675	188	740	109	182.5	11.45	65.2	8.69	42.9	7.55	19.9	2.51	15.9	2.57	4.5
413.39	418.31	HC22-4106	3948.42	3588	360.42	1103.84	860	1675	190.5	754	108.5	184.5	11.75	64.8	8.54	42.3	7.6	19.95	2.5	15.85	2.63	4
418.31	423.23	HC22-4107	4004.22	3639	365.22	1109.52	876	1705	193	756	109	186	11.45	66.5	8.82	42.7	7.81	19.95	2.52	16.85	2.62	5.2
423.23	428.15	HC22-4108	3818.95	3468	350.95	1060.71	827	1630	182.5	723	105.5	179	11.35	63.5	8.41	41.3	7.39	19	2.55	15.95	2.5	4.4

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM018	4,635,079.42	475,194.78	5,701.21	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-4109	3677.29	3333	344.29	1024.2	797	1560	177	697	102	175.5	11.2	62.5	8.3	39.9	7.3	19.1	2.49	15.4	2.6	4.3
433.07	437.99	HC22-4111	3614.71	3283.7	331.01	998.92	792	1540	173	680	98.7	168	11.2	59.6	8.02	39.2	7	18.4	2.41	14.75	2.43	3.6
437.99	442.91	HC22-4112	3510.44	3172.8	337.64	965.14	765	1490	167	653	97.8	173.5	10.7	59.6	7.94	39.4	7.11	19.15	2.4	15.4	2.44	4.1
442.91	447.83	HC22-4113	3411.16	3091.2	319.96	944.5	747	1445	162.5	641	95.7	164	10.6	56.9	7.7	37.6	6.82	17.55	2.24	14.3	2.25	4.9
447.83	452.76	HC22-4114	3487.66	3158.6	329.06	965.78	759	1480	166.5	657	96.1	169.5	11.15	57.5	7.78	38.4	6.96	17.85	2.44	15	2.48	3.7
452.76	457.68	HC22-4115	3427.22	3097	330.22	945.6	748	1450	162.5	642	94.5	170	11.3	58	7.8	38.8	6.92	18.1	2.38	14.65	2.27	4.2
457.68	462.60	HC22-4116	3419.21	3094.9	324.31	943.22	743	1455	162	641	93.9	165	11.3	57.7	7.72	38.6	6.91	17.95	2.33	14.55	2.25	3.9
462.60	467.52	HC22-4117	3557.95	3225.1	332.85	981.02	781	1510	169.5	667	97.6	169	11.45	60.2	7.82	39.1	7.08	18.45	2.41	15.05	2.29	3.5
467.52	472.44	HC22-4118	3674.49	3333.5	340.99	1006.83	810	1565	174	684	100.5	174	11.75	61.1	8.13	40.2	7.14	18.75	2.35	15.2	2.37	3.4
472.44	477.36	HC22-4119	3654.39	3304	350.39	1013.78	790	1550	174.5	687	102.5	180	11.25	61.1	8.38	41.4	7.55	19.4	2.6	16.15	2.56	4.3
477.36	482.28	HC22-4120	3623.81	3288.6	335.21	1005.27	791	1540	174	684	99.6	171.5	11.05	59.5	8.07	39.6	7.09	18.5	2.39	15.15	2.36	4.6
482.28	487.20	HC22-4121	3580.01	3244.2	335.81	984.34	777	1530	169	671	97.2	171	11.35	60.5	7.94	39.2	7.13	18.5	2.49	15.3	2.4	3.1
487.20	492.13	HC22-4122	3576.5	3250.5	326	980.43	781	1535	169.5	668	97	165.5	11.25	59.1	7.83	38.1	6.93	17.8	2.41	14.8	2.28	4.6

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM019	4,635,246.09	475,059.49	5,755.00	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										Sc
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
0.00	4.92	HC22-4159	653.82	561.9	91.92	179.93	134	260	30.2	119.5	18.2	49.8	2.66	14.35	1.93	10.1	1.95	5.23	0.69	4.52	0.69	8.5
4.92	9.84	HC22-4160	2561.28	2284.7	276.58	691.92	556	1075	120.5	463	70.2	143.5	8.91	48.1	6.32	31.9	5.82	15.45	1.98	12.55	2.05	4.5
9.84	14.76	HC22-4161	2751.9	2452.3	299.6	758.99	595	1140	132	508	77.3	154	10.1	52.6	6.89	34.8	6.58	16.35	2.1	14	2.18	3.1
14.76	19.69	HC22-4162	2670.23	2355.3	314.93	746.11	558	1095	126.5	498	77.8	165.5	8.71	53.7	7.11	36.7	6.86	17.45	2.26	14.4	2.24	3.2
19.69	24.61	HC22-4163	2545.21	2243.8	301.41	699.15	532	1055	119	465	72.8	157	8.84	50.8	7.05	35.3	6.6	16.9	2.21	14.35	2.36	3.6
24.61	29.53	HC22-4164	2704.29	2397	307.29	738.9	576	1125	127	492	77	160.5	8.52	52.4	7.1	35.8	6.77	17.3	2.24	14.3	2.36	3.7
29.53	34.45	HC22-4165	2708.75	2371.5	337.25	744.24	570	1105	126.5	491	79	176.5	9.23	56.3	7.84	39.9	7.55	18.6	2.55	16.05	2.73	2.3
34.45	39.37	HC22-4166	2880.34	2542	338.34	797.38	606	1185	136	532	83	177.5	9.28	57.6	7.68	38.7	7.5	18.95	2.38	16.2	2.55	3.4
39.37	44.29	HC22-4167	2552.84	2245.5	307.34	700.66	538	1050	119	465	73.5	161	8.82	51	6.96	36.2	6.93	17.35	2.28	14.45	2.35	1.9
44.29	49.21	HC22-4168	2529.27	2251.9	277.37	687.08	543	1060	119.5	459	70.4	145	8.52	47.6	6.48	31.7	6.06	15.35	1.98	12.65	2.03	2.6
49.21	54.13	HC22-4169	2790.2	2464.1	326.1	758.88	591	1160	131	503	79.1	170	9.34	55.1	7.48	38.3	7.2	18.35	2.37	15.55	2.41	3.8
54.13	59.06	HC22-4171	2937.54	2599.1	338.44	808.25	613	1225	139	538	84.1	178	9.86	56.4	7.85	39.3	7.42	18.85	2.47	15.8	2.49	4.7
59.06	63.98	HC22-4172	2944.01	2618.5	325.51	801.47	637	1225	138	537	81.5	170.5	9.31	55.2	7.37	37.6	7.13	17.9	2.36	15.7	2.44	4.5
63.98	68.90	HC22-4173	3027.57	2700.1	327.47	829.04	646	1270	143	555	86.1	172	9.32	56.2	7.44	37.5	7.14	17.95	2.35	15.15	2.42	3.5
68.90	73.82	HC22-4174	2895.41	2565.5	329.91	787.08	624	1200	135.5	525	81	174.5	8.99	54.7	7.48	38.1	7.23	18.35	2.44	15.75	2.37	4
73.82	78.74	HC22-4175	3073.31	2731.5	341.81	834.96	664	1280	145.5	556	86	178.5	9.24	57.9	7.96	39.5	7.5	19.65	2.51	16.4	2.65	3.4
78.74	83.66	HC22-4176	2907.48	2566	341.48	792.78	616	1205	135	527	83	180	9.21	56.8	7.68	40.1	7.48	19.25	2.5	15.95	2.51	3.8
83.66	88.58	HC22-4177	2857.45	2503.7	353.75	779.08	598	1175	132.5	517	81.2	189	8.76	57.9	7.98	40.4	7.8	20.2	2.67	16.35	2.69	4
88.58	93.50	HC22-4178	2693.51	2366.5	327.01	738.33	570	1105	126	489	76.5	171	8.84	53.3	7.43	39.4	7.4	19.15	2.4	15.65	2.44	3.7
93.50	98.43	HC22-4179	2713.44	2375.6	337.84	744.33	569	1110	126	493	77.6	178.5	8.69	55.9	7.53	40.2	7.33	18.75	2.43	16.05	2.46	3.2
98.43	103.35	HC22-4180	3133.22	2785.6	347.62	855.33	679	1300	147.5	570	89.1	182	8.77	59.9	7.93	40.8	7.65	19.25	2.52	16.15	2.65	4.8
103.35	108.27	HC22-4181	2928.43	2604.7	323.73	806.35	629	1215	138	539	83.7	166	8.69	58.4	7.55	38.1	7.18	18	2.38	15.15	2.28	4.1
108.27	113.19	HC22-4182	3026.13	2697.7	328.43	832.95	651	1260	142.5	557	87.2	172	8.78	56.9	7.75	38.5	7	18.25	2.25	14.65	2.35	3.3
113.19	118.11	HC22-4183	2962.45	2635	327.45	812.31	638	1230	139.5	543	84.5	171	8.39	57.4	7.51	37.8	7.2	18.15	2.34	15.25	2.41	3.4
118.11	123.03	HC22-4184	2974.31	2643.8	330.51	823.14	642	1225	141.5	551	84.3	172	8.58	57.2	7.64	38.7	7.23	18.5	2.46	15.7	2.5	4.1
123.03	127.95	HC22-4185	3016.3	2669.6	346.7	837.61	641	1240	143.5	558	87.1	181	8.13	59.6	8.01	41	7.67	19.8	2.46	16.45	2.58	4.7
127.95	132.87	HC22-4186	3004.82	2674.1	330.72	829.76	641	1250	142	555	86.1	172	8.17	57.8	7.66	39	7.39	18.55	2.39	15.35	2.41	4.9
132.87	137.80	HC22-4187	2867.52	2537.6	329.92	790.82	607	1185	134.5	528	83.1	174	8.37	55.8	7.32	37.9	7.28	18.65	2.4	15.85	2.35	4
137.80	142.72	HC22-4188	2564.72	2294.6	270.12	714.08	521	1100	122	478	73.6	134	7.19	49.7	6.08	34.4	5.65	15.8	2.05	13.15	2.1	3.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM019	*4,635,246.09*	*475,059.49*	*5,755.00*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
142.72	147.64	HC22-4190	3028.67	2722.9	305.77	847.93	625	1295	144	574	84.9	154	7.68	56.6	7.03	38	6.2	17.7	2.28	14.05	2.23	3.4
147.64	152.56	HC22-4191	3006.93	2709.7	297.23	839.15	620	1295	144	566	84.7	147.5	7.79	55.8	6.95	37.5	6.22	17.05	2.11	14.2	2.11	3.3
152.56	157.48	HC22-4192	2963.79	2664	299.79	830.82	608	1270	141.5	561	83.5	150	7.68	55.7	6.82	38	6.07	17	2.15	14.1	2.27	2.1
157.48	162.40	HC22-4193	3015.99	2710.1	305.89	844.08	622	1290	144.5	571	82.6	152	7.32	57.6	7.08	38.9	6.43	17.7	2.23	14.45	2.18	3.5
162.40	167.32	HC22-4194	3084.01	2787.1	296.91	867.56	638	1325	149	590	85.1	146.5	7.45	57.3	6.96	36.5	6.08	17.15	2.11	14.55	2.31	3.4
167.32	172.24	HC22-4195	2768.43	2504.8	263.63	771.86	567	1205	133	524	75.8	130.5	6.68	49.7	6.26	32.8	5.49	15.1	2.03	13.05	2.02	4.1
172.24	177.17	HC22-4196	3508.97	3185.4	323.57	985.44	728	1520	169.5	672	95.9	160.5	7.86	61.7	7.64	40.4	6.8	18.55	2.32	15.45	2.35	2.9
177.17	182.09	HC22-4197	2460.23	2215.1	245.13	699.43	507	1045	118.5	475	69.6	122.5	5.91	44.7	5.53	30.8	4.97	14.75	1.84	12.15	1.98	2.4
182.09	187.01	HC22-4198	3014.08	2731.1	282.98	836.69	626	1310	145.5	568	81.6	139	7.6	55.1	6.69	34.9	5.91	16.15	2.03	13.45	2.15	3.3
187.01	191.93	HC22-4199	3214.79	2917.7	297.09	899.87	667	1395	155.5	615	85.2	146	7.99	57	6.87	37.3	6.06	16.8	2.15	14.6	2.32	4.1
191.93	196.85	HC22-4200	3095.92	2795.3	300.62	868.49	641	1330	148.5	591	84.8	148.5	7.81	56.7	6.89	37.3	6.21	17.65	2.33	14.9	2.33	2.9
196.85	201.77	HC22-4201	3143.09	2849.3	293.79	875.54	653	1365	152	596	83.3	147	7.8	54.6	6.74	37.5	6.04	15.8	2.14	14	2.17	4.1
201.77	206.69	HC22-4202	3268.41	2950.9	317.51	913.42	674	1410	156.5	621	89.4	158.5	8.26	59.4	7.32	39.2	6.53	17.8	2.35	15.65	2.5	3
206.69	211.61	HC22-4203	2899.22	2612.8	286.42	815.5	599	1240	139.5	553	81.3	142	8.2	52.9	6.5	35.2	6	17.45	2.06	14	2.11	5.3
211.61	216.54	HC22-4204	2681.7	2395.5	286.2	757.17	540	1140	128.5	510	77	142.5	8.67	52.4	6.57	35.1	5.91	16.55	2.14	14.1	2.26	2.9
216.54	221.46	HC22-4205	2585.6	2322.5	263.1	731.58	526	1105	123	494	74.5	128.5	8.07	49.2	6.18	33.9	5.44	15.1	1.98	12.75	1.98	4
221.46	226.38	HC22-4206	2748.53	2458.8	289.73	776.05	551	1175	131	523	78.8	143	9.15	53.7	6.65	36.6	6.05	16.3	2.1	13.9	2.28	5.8
226.38	231.30	HC22-4207	2757.21	2478.2	279.01	779.11	560	1180	132	526	80.2	139	8.57	51.6	6.41	34.5	5.78	15.9	2.1	13.1	2.05	4
231.30	236.22	HC22-4208	3278.97	2979.4	299.57	923.32	680	1420	159	628	92.4	146.5	9.22	58.6	7.02	36.9	6.22	16.25	2.17	14.45	2.24	3.9
236.22	241.14	HC22-4210	2850.94	2585.6	265.34	794.98	585	1245	137.5	541	77.1	129.5	8.41	50.5	6.18	33.2	5.4	14.95	1.9	13.3	2	3
241.14	246.06	HC22-4211	3379.73	3059.7	320.03	947.96	700	1460	163.5	643	93.2	156	9.62	62.4	7.56	40.7	6.62	17.85	2.26	14.75	2.27	4.1
246.06	250.98	HC22-4212	3704.75	3385	319.75	1037.66	780	1615	181	709	100	154.5	9.05	65	7.56	40.1	6.57	18.05	2.19	14.5	2.23	2
250.98	255.91	HC22-4213	3345.64	3015.3	330.34	944.36	685	1435	163	636	96.3	163	9.53	63.5	7.66	41.4	6.8	18.75	2.36	15.05	2.29	3.6
255.91	260.83	HC22-4214	3088.77	2789.4	299.37	862.41	632	1340	147	585	85.4	147	9.38	57.1	6.91	38.1	6.21	16.6	2.1	13.85	2.12	4.2
260.83	265.75	HC22-4215	3650.24	3336	314.24	1015.07	773	1595	178.5	692	97.5	152	9.97	62.7	7.57	39.5	6.45	17.15	2.21	14.4	2.29	4.3
265.75	270.67	HC22-4216	3239.64	2934.1	305.54	908.03	667	1405	155.5	617	89.6	149	9.63	58.5	7.23	38.7	6.29	17.7	2.2	14.15	2.14	3.7
270.67	275.59	HC22-4217	3785.4	3473	312.4	1056.65	797	1665	185	725	101	150	10.35	64.5	7.35	38.3	6.28	16.95	2.1	14.35	2.22	3.9
275.59	280.51	HC22-4218	2922.94	2638.3	284.64	821.91	604	1255	140	559	80.3	137	10.15	54.7	6.71	35.9	5.95	16.25	2.06	13.8	2.12	5.5
280.51	285.43	HC22-4219	2791.94	2528.7	263.24	784.81	573	1210	133.5	535	77.2	126.5	10.1	50.8	6.21	32.9	5.16	15	1.82	12.65	2.1	2.9

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM019	*4,635,246.09*	*475,059.49*	*5,755.00*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-4220	2985.29	2713.4	271.89	832.12	626	1295	143.5	569	79.9	131	10.4	52.8	6.22	33.5	5.35	15.05	1.96	13.5	2.11	3.9
290.35	295.28	HC22-4221	3477.66	3159	318.66	968.33	732	1505	168.5	660	93.5	154	10.7	62.8	7.23	39.1	6.57	18	2.25	15.55	2.46	4.1
295.28	300.20	HC22-4222	3665.22	3344.2	321.02	1016.69	775	1600	178.5	694	96.7	153.5	11.85	64.4	7.39	40.1	6.38	17.8	2.26	15	2.34	2.7
300.20	305.12	HC22-4223	3173.9	2882.3	291.6	889.97	656	1380	152	608	86.3	140	9.75	57.1	6.77	36.9	5.97	16.7	2.07	14.1	2.24	4.7
305.12	310.04	HC22-4224	3689.44	3359	330.44	1016.99	786	1600	170.5	698	104.5	168.5	11.1	63	7.49	36.5	6.98	17	2.31	15	2.56	4.6
310.04	314.96	HC22-4225	3812.17	3477	335.17	1043.98	828	1650	177	716	106	170	10.35	65.1	7.68	37.3	7.08	17.25	2.38	15.5	2.53	4.9
314.96	319.88	HC22-4226	3596.41	3279	317.41	986.6	780	1555	165.5	677	101.5	160	10.95	61.1	7.2	35.4	6.66	16.85	2.18	14.65	2.42	4.4
319.88	324.80	HC22-4227	3668.07	3354	314.07	1004.03	802	1590	170	688	104	159.5	10.3	61.3	7.23	34.8	6.37	15.85	2.16	14.3	2.26	4.4
324.80	329.72	HC22-4228	3704.33	3375	329.33	1022.96	787	1610	172	703	103	165	11.15	64.7	7.66	37.3	6.9	16.65	2.28	15.15	2.54	5.6
329.72	334.65	HC22-4229	3676.29	3354.5	321.79	1012.57	790	1595	171	695	103.5	163.5	10.75	62.5	7.47	35.6	6.56	16.85	2.16	14.05	2.35	6.2
334.65	339.57	HC22-4231	3871.43	3543	328.43	1067.06	840	1680	181.5	731	110.5	166	10.75	64.5	7.66	36.4	6.83	16.8	2.18	14.8	2.51	5.1
339.57	344.49	HC22-4232	3777.45	3457	320.45	1034.91	815	1650	176	710	106	161	10.6	63.5	7.31	35.6	6.65	16.9	2.24	14.35	2.3	4.2
344.49	349.41	HC22-4233	4197.53	3847.5	350.03	1153.81	896	1845	196	794	116.5	175.5	10.7	69.7	8.21	39.1	7.43	18.15	2.38	16.3	2.56	5.7
349.41	354.33	HC22-4234	3705.21	3377.5	327.71	1022.63	789	1610	173.5	701	104	166	10.65	63.2	7.43	36.7	6.8	17.4	2.26	14.9	2.37	5.4
354.33	359.25	HC22-4235	4176.24	3827.5	348.74	1150.36	904	1820	195	791	117.5	175	11.15	69.5	8.06	38.8	7.32	17.95	2.35	16	2.61	5.5
359.25	364.17	HC22-4236	3511.18	3193.7	317.48	966.56	764	1505	163	664	97.7	163	10.75	60.3	7.06	34.8	6.6	16.2	2.15	14.3	2.32	5.5
364.17	369.09	HC22-4237	3609.48	3293	316.48	987.84	778	1570	168	675	102	158.5	10.6	62.1	7.14	35.7	6.74	16.6	2.26	14.55	2.29	5.8
369.09	374.02	HC22-4238	3507.65	3210.9	296.75	969.82	766	1515	163.5	667	99.4	150	10.4	57.8	6.72	33.2	6.12	15.25	2.05	13.05	2.16	5.3
374.02	378.94	HC22-4239	3642.15	3337.5	304.65	1001.9	787	1590	169	688	103.5	153	10.65	60.2	7	34.4	6.29	15.35	2.02	13.5	2.24	4.6
378.94	383.86	HC22-4240	3603.95	3293.5	310.45	1000.42	790	1545	169	686	103.5	154.5	10.6	61.3	7.22	34.7	6.49	16.85	2.16	14.4	2.23	4.4
383.86	388.78	HC22-4241	3754.9	3442	312.9	1038.54	815	1630	175.5	715	106.5	158.5	10.45	60.6	7.14	34.4	6.49	16.4	2.23	14.35	2.34	4.5
388.78	393.70	HC22-4242	3468.91	3172.4	296.51	955.58	746	1510	161.5	658	96.9	150.5	10.05	57.7	6.78	32.4	5.95	15.45	2.03	13.5	2.15	4.2
393.70	398.62	HC22-4243	3064.32	2796.9	267.42	842.17	655	1335	142	578	86.9	136.5	9.5	50.6	5.87	29.4	5.49	14	1.86	12.15	2.05	5.3
398.62	403.54	HC22-4244	3376.13	3090.3	285.83	931.89	736	1460	158	639	97.3	144	10.3	56.1	6.59	31	5.92	15	1.98	12.9	2.04	4.4
403.54	408.46	HC22-4245	3560.18	3265.4	294.78	982.38	762	1560	165.5	678	99.9	148	10.85	58.6	6.58	32.4	6.06	14.85	2.1	13.25	2.09	5.2
408.46	413.39	HC22-4246	4513.47	4149	364.47	1251.15	976	1970	213	864	126	186	10.7	71.8	8.35	39.8	7.5	18.85	2.51	16.3	2.66	6.1
413.39	418.31	HC22-4247	3813.52	3499.5	314.02	1049.52	817	1675	179	722	106.5	155.5	10.65	63.5	7.32	34.7	6.54	16.65	2.17	14.6	2.39	5.9
418.31	423.23	HC22-4248	4058.85	3718.5	340.35	1129.75	889	1745	190	780	114.5	171	10.85	67.4	7.75	37.5	7.17	17.7	2.39	15.9	2.69	6.7
423.23	428.15	HC22-4250	3842.25	3527	315.25	1060.49	833	1675	180.5	730	108.5	158.5	10.85	62.5	7.09	34.4	6.46	16.5	2.26	14.35	2.34	6.3

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM019	4,635,246.09	475,059.49	5,755.00	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-4251	3388.1	3091.2	296.9	934.75	731	1465	157	644	94.2	148.5	10.3	57.6	6.85	32.7	6.27	15.9	2.13	14.3	2.35	4.2
433.07	437.99	HC22-4252	3433.62	3144.8	288.82	944.2	743	1495	159	651	96.8	147	10.4	55.8	6.4	31	5.92	14.85	2.13	13.25	2.07	4.2
437.99	442.91	HC22-4253	3537.27	3237.9	299.37	969.46	773	1535	164.5	667	98.4	149.5	10.55	58.8	6.66	32.9	6.19	15.85	2.22	14.4	2.3	3.9
442.91	447.83	HC22-4254	3877.88	3550	327.88	1055.79	842	1695	180.5	724	108.5	168	10.7	62.6	7.19	35.6	6.72	16.85	2.36	15.4	2.46	6
447.83	452.76	HC22-4255	3342.82	3042.2	300.62	922.26	715	1445	154.5	635	92.7	152.5	10.1	56.8	6.56	33.5	6.38	16.2	2.18	14.15	2.25	4.8
452.76	457.68	HC22-4256	3228.08	2933.7	294.38	892	691	1390	149	611	92.7	150.5	10.05	54.6	6.6	32.7	6.11	15.45	2.11	14.05	2.21	4.4
457.68	462.60	HC22-4257	3342.82	3049.6	293.22	910.56	723	1455	155.5	623	93.1	148	10.3	55.8	6.56	32.4	6.31	15.7	2.08	13.9	2.17	6
462.60	467.52	HC22-4258	3213.18	2927.7	285.48	879.5	691	1395	148	601	92.7	144.5	10.5	54.5	6.4	31.4	6.1	15	2.06	12.95	2.07	4.2
467.52	472.44	HC22-4259	3739.7	3407.5	332.2	1022.1	795	1635	172.5	700	105	167.5	10.9	64.1	7.7	36.9	6.98	17.7	2.42	15.35	2.65	4.6
472.44	477.36	HC22-4260	3270.9	2955.6	315.3	904.42	736	1360	156.5	612	91.1	157.5	10.7	57.6	7.52	37.3	6.93	17.65	2.3	15.3	2.5	4.1
477.36	482.28	HC22-4261	3351.5	3035.3	316.2	934.83	755	1390	162	633	95.3	155	11	60.5	7.53	37	6.91	18.1	2.28	15.4	2.48	5.4
482.28	487.20	HC22-4262	3392.36	3066	326.36	942.02	760	1410	163	639	94	163	11.05	60.4	7.72	38.3	7.24	17.75	2.39	15.9	2.61	4.7
487.20	492.13	HC22-4263	3072.66	2761.3	311.36	854.42	685	1265	148.5	576	86.8	157	11.25	56.5	7.32	35.8	6.85	17.25	2.24	14.65	2.5	4.7

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM020	*4,635,400.66*	*475,154.24*	*5,756.56*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-4264	2455.85	2206.9	248.95	718.58	578	945	124.5	487	72.4	124	8.97	46.5	5.98	28.7	5.28	13.5	1.82	12.15	2.05	6.9
4.92	9.84	HC22-4265	3602.22	3294.5	307.72	1005.71	843	1490	177.5	685	99	148.5	11.4	62.5	7.81	36.4	6.55	16.4	2.02	13.8	2.34	4.2
9.84	14.76	HC22-4266	3126.23	2845.4	280.83	860.66	719	1305	152	584	85.4	138.5	10.65	54.3	6.76	32.5	6.2	14.8	1.95	13	2.17	3.5
14.76	19.69	HC22-4267	3165.25	2883.8	281.45	871.17	713	1340	153	592	85.8	136	10.85	55.8	6.77	33.6	6.14	15.1	1.98	13.1	2.11	2.9
19.69	24.61	HC22-4268	3504.23	3213.4	290.83	964.26	801	1490	170.5	657	94.9	139	10.85	60.4	7.26	34.6	6.14	15.2	1.96	13.25	2.17	4.4
24.61	29.53	HC22-4270	3071.77	2792.2	279.57	848.38	698	1285	147.5	578	83.7	139.5	10.55	52.6	6.58	32.6	5.97	14.8	1.92	12.9	2.15	3.1
29.53	34.45	HC22-4271	3435.29	3123.8	311.49	951.72	776	1440	165.5	647	95.3	154	11.25	59.9	7.42	36.5	6.77	16.5	2.22	14.55	2.38	3.9
34.45	39.37	HC22-4272	3292.36	2982.5	309.86	911.9	734	1380	159	618	91.5	154.5	10.6	58.2	7.3	36.1	6.8	16.8	2.2	14.95	2.41	3.7
39.37	44.29	HC22-4273	3248.01	2946.4	301.61	905.99	733	1350	158	614	91.4	149.5	10.7	57.6	7.19	35.4	6.4	15.9	2.13	14.5	2.29	3.5
44.29	49.21	HC22-4274	3184.58	2896.8	287.78	878.05	729	1330	154.5	596	87.3	142	10.75	55.4	6.85	33.4	6.24	15.5	2.04	13.3	2.3	4.6
49.21	54.13	HC22-4275	3161.33	2870.2	291.13	870.53	711	1330	153.5	590	85.7	142	10.8	56.7	7.23	34.1	6.31	16	2.05	13.8	2.14	3.3
54.13	59.06	HC22-4276	3363.81	3054.8	309.01	927.32	756	1415	161.5	629	93.3	152	11.2	59.6	7.22	36.3	6.7	16.55	2.13	14.85	2.46	3.9
59.06	63.98	HC22-4277	3077.01	2781.5	295.51	846.37	693	1285	146.5	573	84	144	10.9	56.6	7.27	35.6	6.47	16.1	2.15	14.1	2.32	5
63.98	68.90	HC22-4278	3100.89	2813.7	287.19	848.45	701	1305	148.5	575	84.2	139.5	10.85	56.3	7.15	33.6	6.32	15.75	2.08	13.45	2.19	4
68.90	73.82	HC22-4279	3320.56	3013.6	306.96	915.1	747	1395	159	621	91.6	152	10.65	58.7	7.4	36.1	6.82	16.5	2.23	14.15	2.41	4.7
73.82	78.74	HC22-4280	3261.56	2955.3	306.26	895.99	732	1370	157	608	88.3	151.5	10.75	58.5	7.19	35.5	6.65	16.8	2.28	14.65	2.44	3.8
78.74	83.66	HC22-4281	2884.94	2602.1	282.84	791.21	646	1205	139	533	79.1	139.5	9.95	53	6.61	33.5	6.2	15.6	2.12	14.15	2.21	3.9
83.66	88.58	HC22-4282	3176.44	2870.1	306.34	872.44	711	1330	152	590	87.1	150.5	10.4	58.9	7.34	36	6.56	17	2.19	14.95	2.5	4
88.58	93.50	HC22-4283	3050.75	2750.7	300.05	837.78	680	1275	145.5	566	84.2	149.5	10.2	55.9	7.18	34.9	6.49	16.35	2.14	14.8	2.59	4.5
93.50	98.43	HC22-4284	2927.74	2643.5	284.24	803.55	655	1225	140	543	80.5	142	9.66	52.7	6.65	33.4	6.13	15.05	2.09	14.3	2.26	4
98.43	103.35	HC22-4285	2916.18	2624.8	291.38	802.74	653	1210	139.5	541	81.3	144	9.96	54.6	6.94	34	6.45	16.45	2.14	14.5	2.34	3.6
103.35	108.27	HC22-4286	2557.31	2296.7	260.61	702.7	565	1065	120.5	476	70.2	130.5	9.28	47.4	6.1	29.9	5.67	13.9	2.03	13.55	2.28	3.7
108.27	113.19	HC22-4287	2682.94	2414.5	268.44	737.05	595	1120	127.5	497	75	133	9.22	49.7	6.35	31.2	5.85	15.1	2.03	13.7	2.29	3.4
113.19	118.11	HC22-4288	2822.08	2548.4	273.68	773.3	633	1180	135	523	77.4	137	9.68	49.9	6.4	31.5	6.07	15.1	1.93	13.8	2.3	3.8
118.11	123.03	HC22-4289	2909.19	2623	286.19	794.34	653	1215	138.5	538	78.5	143	10	53.2	6.64	32.7	6.11	15.9	2.18	14.1	2.36	3.6
123.03	127.95	HC22-4291	2784.65	2505.4	279.25	763.6	625	1155	132.5	517	75.9	141	9.4	50.9	6.4	31.8	6.01	15.4	2.05	14	2.29	4.1
127.95	132.87	HC22-4292	2759.38	2476.3	283.08	754.32	621	1140	131	510	74.3	142.5	9.52	51.2	6.42	32.6	6.23	15.75	2.14	14.3	2.42	3.8
132.87	137.80	HC22-4293	2566.09	2303.2	262.89	696.51	573	1070	121.5	470	68.7	132	8.89	47.7	6.01	30.3	5.59	14.35	2.05	13.7	2.3	4.5
137.80	142.72	HC22-4294	2838.41	2549.2	289.21	780.52	629	1180	135.5	526	78.7	143.5	9.45	53.7	6.72	33.6	6.41	16.65	2.14	14.7	2.34	3.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM020	*4,635,400.66*	*475,154.24*	*5,756.56*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-4295	2739.52	2459	280.52	750.89	612	1135	130.5	505	76.5	140.5	9.37	52.4	6.59	32.3	6.11	15.35	2.06	13.6	2.24	4
147.64	152.56	HC22-4296	2854.79	2557.4	297.39	780.44	598	1220	136.5	525	77.9	147	9.68	58.4	7.04	34	5.94	16.1	2.26	14.75	2.22	4.9
152.56	157.48	HC22-4297	2813.47	2520.3	293.17	771.59	594	1195	134.5	520	76.8	146	9.29	56.9	6.79	33.5	5.85	15.95	2.2	14.5	2.19	4.9
157.48	162.40	HC22-4298	2911.54	2613.6	297.94	797.63	617	1240	138	539	79.6	147	10.15	58.3	6.83	34.2	5.98	16.25	2.27	14.75	2.21	4.4
162.40	167.32	HC22-4299	2995.82	2692.7	303.12	820.48	643	1270	146	552	81.7	152.5	10.25	57.6	6.78	34	5.94	16.4	2.3	15.05	2.3	5
167.32	172.24	HC22-4300	2964.83	2666.8	298.03	813.87	634	1260	144	548	80.8	146.5	10.5	58.3	6.87	34.2	5.94	16.35	2.28	14.8	2.29	5.6
172.24	177.17	HC22-4301	3288.98	2976.4	312.58	906.28	713	1400	163	612	88.4	154	11.05	62.1	7.18	35.7	6.1	16.55	2.33	15.25	2.32	4.8
177.17	182.09	HC22-4302	3067.94	2776.3	291.64	843.1	658	1315	150.5	569	83.8	143	10.5	58.4	6.8	33	5.68	15.7	2.19	14.15	2.22	5
182.09	187.01	HC22-4303	3367.48	3053.1	314.38	932.72	728	1435	166.5	633	90.6	155	11.4	62	7.22	35.4	6.2	16.95	2.3	15.45	2.46	5.7
187.01	191.93	HC22-4304	3269.81	2964.3	305.51	905.59	700	1400	160.5	616	87.8	149.5	11.15	61.2	7.09	34.2	6.06	16.5	2.3	15.15	2.36	5.3
191.93	196.85	HC22-4305	3262.46	2957.8	304.66	909.63	700	1390	159.5	621	87.3	150.5	11	59.5	7.03	34.8	6.01	16.45	2.32	14.75	2.3	4.8
196.85	201.77	HC22-4306	3485.93	3192.5	293.43	974.13	764	1495	174.5	667	92	142.5	10.7	59.6	6.83	33.8	5.74	15.6	2.18	14.25	2.23	4.3
201.77	206.69	HC22-4307	3527.95	3222.5	305.45	973.89	770	1520	175.5	663	94	150.5	10.75	60.3	6.99	34.4	5.98	16.55	2.3	15.3	2.38	4.6
206.69	211.61	HC22-4308	3096.1	2816.4	279.7	853.62	676	1325	153	579	83.4	137.5	10.5	54.9	6.42	31.8	5.52	14.95	2.11	13.85	2.15	5.3
211.61	216.54	HC22-4310	3259.32	2966.9	292.42	900.24	707	1400	160.5	610	89.4	142	10.85	58.7	6.64	33.7	5.81	15.7	2.2	14.55	2.27	4.4
216.54	221.46	HC22-4311	3348.96	3052.9	296.06	937.34	721	1435	164	642	90.9	144.5	10.75	59.9	6.84	33.6	5.81	15.65	2.24	14.55	2.22	3.8
221.46	226.38	HC22-4312	3328.51	3038.8	289.71	918.45	730	1430	164	625	89.8	141	10.1	58.9	6.75	32.9	5.62	15.55	2.13	14.55	2.21	4
226.38	231.30	HC22-4313	3474.52	3161.9	312.62	964.71	750	1490	171.5	655	95.4	151.5	10.75	63.8	7.31	35.5	6.16	17.05	2.43	15.7	2.42	5.1
231.30	236.22	HC22-4314	3862.15	3525	337.15	1077.56	843	1650	190.5	738	103.5	165.5	11.05	68	7.76	37.8	6.59	18.15	2.52	17.15	2.63	5.2
236.22	241.14	HC22-4315	3471.37	3168.8	302.57	955.31	755	1500	170	651	92.8	146	11	62.3	7.11	34.4	5.95	16.15	2.28	15.05	2.33	4.7
241.14	246.06	HC22-4316	3436.36	3141	295.36	943.15	753	1485	170.5	641	91.5	143.5	11.45	60	6.85	33.3	5.75	15.4	2.2	14.7	2.21	4.7
246.06	250.98	HC22-4317	3696.83	3366	330.83	1034.39	802	1575	183.5	705	100.5	161.5	11.35	66.7	7.69	37.7	6.48	17.75	2.47	16.65	2.54	4.5
250.98	255.91	HC22-4318	3122.35	2844.5	277.85	858.6	669	1355	155	582	83.5	133.5	11.2	56.7	6.4	31.7	5.4	14.5	2.1	14.2	2.15	4.2
255.91	260.83	HC22-4319	3289.12	3008.7	280.42	903.7	718	1425	162	615	88.7	135.5	10.7	58	6.5	31.5	5.49	14.75	2.11	13.7	2.17	4.8
260.83	265.75	HC22-4320	3276.82	2989.7	287.12	906.93	707	1415	163	616	88.7	139.5	11.15	57.9	6.73	32.5	5.75	15.25	2.1	14.05	2.19	5
265.75	270.67	HC22-4321	3368.1	3068.6	299.5	928.73	726	1455	165.5	632	90.1	146	11.05	60.5	6.93	34.2	5.84	15.85	2.19	14.65	2.29	5.2
270.67	275.59	HC22-4322	3666.78	3349	317.78	1045.13	793	1555	181	722	98	154.5	11.65	64.8	7.43	36.7	6.24	16.85	2.31	14.95	2.35	4.3
275.59	280.51	HC22-4323	3263.97	2974.7	289.27	902.82	707	1405	160	614	88.7	142.5	10.35	57	6.62	33.5	5.74	15.55	2.1	13.75	2.16	3.5
280.51	285.43	HC22-4324	3132.66	2844.4	288.26	867.74	681	1335	154	589	85.4	141.5	11.35	57.4	6.64	32.7	5.7	15.25	2.05	13.5	2.17	4.9

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM020	4,635,400.66	475,154.24	5,756.56	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-4325	3133.33	2845	288.33	868.61	671	1345	154	589	86	141	10.95	57.8	6.71	32.9	5.8	15.1	2.11	13.8	2.16	4.9
290.35	295.28	HC22-4326	2998.8	2732.2	266.6	823.69	645	1300	148	558	81.2	131	10.15	52.7	6.19	30.3	5.26	14.1	2	12.85	2.05	4.5
295.28	300.20	HC22-4327	2968.46	2691	277.46	820.09	643	1265	148	554	81	138.5	10.75	53.2	6.29	30.8	5.46	14.7	2.11	13.55	2.1	4.3
300.20	305.12	HC22-4328	3353.75	3048.4	305.35	927.47	727	1435	165	631	90.4	151	11.45	60	6.97	34.1	5.96	16.35	2.31	14.85	2.36	4.8
305.12	310.04	HC22-4330	3101.16	2813.4	287.76	856.22	666	1330	154.5	580	82.9	143.5	10.65	55.9	6.42	32.4	5.69	15.35	2.15	13.5	2.2	4.9
310.04	314.96	HC22-4331	2825.71	2551.4	274.31	779.64	609	1200	139	527	76.4	137.5	10.8	51.6	6.24	31	5.46	14.35	2.04	13.25	2.07	4.5
314.96	319.88	HC22-4332	3236.63	2915.4	321.23	914.22	692	1355	158.5	625	84.9	157.5	10.75	62.5	7.62	38.2	6.67	18.65	2.36	14.7	2.28	5.6
319.88	324.80	HC22-4333	2632.72	2357	275.72	735.1	561	1100	130	496	70	135	10.35	52.9	6.4	32.7	5.74	15.95	2.05	12.75	1.88	5.1
324.80	329.72	HC22-4334	2635.89	2365.9	269.99	735.73	559	1110	131	497	68.9	131.5	10.65	51.4	6.33	32.5	5.59	15.55	1.97	12.55	1.95	4.7
329.72	334.65	HC22-4335	2805.58	2514.3	291.28	780.86	605	1170	139	526	74.3	141.5	11.25	56.4	6.96	34.6	6.04	16.7	2.15	13.6	2.08	4.8
334.65	339.57	HC22-4336	2421.31	2170.4	250.91	676.52	519	1010	118	459	64.4	123.5	10.25	47.2	5.82	29.3	5.17	14.25	1.88	11.75	1.79	4.7
339.57	344.49	HC22-4337	2329.19	2081.1	248.09	648.85	490	977	112	440	62.1	122	9.89	46	5.65	29.1	5.12	14.8	1.88	11.9	1.75	4.3
344.49	349.41	HC22-4338	2457.47	2206.1	251.37	683.88	527	1030	120	465	64.1	124.5	10.1	47.1	5.78	29	5.14	14.45	1.84	11.7	1.76	4.9
349.41	354.33	HC22-4339	2462.02	2202.8	259.22	685.39	533	1020	122	463	64.8	129.5	10.35	47.5	5.79	29.8	5.28	15.05	1.93	12.15	1.87	4.8
354.33	359.25	HC22-4340	2354.79	2108.2	246.59	655.14	513	974	114	445	62.2	123	10.3	45	5.54	28.4	5.05	14.15	1.87	11.55	1.73	4.4
359.25	364.17	HC22-4341	2351.91	2099.2	252.71	656.46	508	970	114	445	62.2	125.5	9.84	46.5	5.66	29.6	5.22	14.85	1.94	11.85	1.75	5.1
364.17	369.09	HC22-4342	2124.11	1879.2	244.91	599.29	451	863	102	405	58.2	122	9.63	44.3	5.49	28.6	5.16	14.5	1.81	11.7	1.72	4.7
369.09	374.02	HC22-4343	2352.47	2104.1	248.37	657.73	503	978	116	443	64.1	124	8.99	45.8	5.63	29	5.13	14.55	1.9	11.6	1.77	4.9
374.02	378.94	HC22-4344	2566	2313.6	252.4	714.47	559	1075	128.5	484	67.1	126	9.69	46.4	5.77	29.1	5.23	14.45	2.05	11.9	1.81	4.3
378.94	383.86	HC22-4345	2229.53	1992.2	237.33	621.56	479	924	108	423	58.2	120	9.25	42.4	5.26	27.1	4.85	13.85	1.78	11.2	1.64	4
383.86	388.78	HC22-4346	2254.1	1991.3	262.8	631.15	471	925	110	424	61.3	134.5	9.91	45.2	5.75	30.1	5.41	15.4	2.01	12.65	1.87	5.5
388.78	393.70	HC22-4347	2186.86	1934.4	252.46	615.19	458	896	105.5	415	59.9	126.5	9.95	45.6	5.59	29.2	5.21	14.85	1.92	11.85	1.79	4.5
393.70	398.62	HC22-4348	2008.56	1773.5	235.06	564.44	419	823	94.9	381	55.6	117	9.55	42.5	5.34	27.6	4.88	13.65	1.8	11.1	1.64	3.5
398.62	403.54	HC22-4349	2120.41	1865.5	254.91	596.97	445	859	101	401	59.5	128	9.54	45.9	5.77	29.7	5.29	14.9	1.92	12.15	1.74	4.2
403.54	408.46	HC22-4351	2124.18	1862.8	261.38	596.71	443	859	100	401	59.8	132	10.25	46.1	5.81	30.1	5.39	15.45	1.99	12.45	1.84	5.2
408.46	413.39	HC22-4352	1996.99	1746.7	250.29	558.7	418	805	93.1	375	55.6	125.5	9.72	43.9	5.6	29.4	5.26	14.95	1.98	12.25	1.73	4.5
413.39	418.31	HC22-4353	2108.35	1840.8	267.55	594.71	436	847	99.9	399	58.9	136	9.75	46.6	5.91	31	5.55	15.6	2.08	13.15	1.91	5.1
418.31	423.23	HC22-4354	2122.18	1857.7	264.48	590.01	446	858	101	395	57.7	132.5	10.35	46.1	5.81	30.5	5.51	16.35	2.09	13.35	1.92	4.7
423.23	428.15	HC22-4355	2219.28	1977.5	241.78	614.96	480	916	110.5	412	59	120.5	10	43.3	5.46	28	4.94	14	1.88	11.95	1.75	4.5

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM020	*4,635,400.66*	*475,154.24*	*5,756.56*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-4356	2180.19	1932.7	247.49	602.49	466	898	105	405	58.7	123	10.65	44.6	5.49	28.3	4.98	14.45	1.94	12.3	1.78	4.7
433.07	437.99	HC22-4357	2241.41	1991	250.41	613.58	488	923	110.5	411	58.5	126.5	10.25	44.1	5.38	28.2	5.04	14.75	1.96	12.4	1.83	4.8
437.99	442.91	HC22-4358	2243.5	1993	250.5	612.66	482	932	106	414	59	126	9.89	44.5	5.46	28.2	5.11	14.8	1.96	12.7	1.88	4.9
442.91	447.83	HC22-4359	1935.27	1704.1	231.17	535.88	414	785	91.4	361	52.7	118	9.57	39.7	4.98	25.8	4.65	13.4	1.8	11.55	1.72	4.1
447.83	452.76	HC22-4360	2060.32	1820.7	239.62	563.11	446	844	96.4	380	54.3	121.5	10.15	41.1	5.21	27.2	4.81	14.3	1.94	11.7	1.71	4.3
452.76	457.68	HC22-4361	2203.1	1954.2	248.9	599.03	477	911	106.5	403	56.7	127.5	10.1	42.7	5.33	27.5	5.04	14.7	1.92	12.35	1.76	4.8
457.68	462.60	HC22-4362	2112.86	1874.4	238.46	578.02	463	866	99.5	390	55.9	120	9.67	41.2	5.22	27.4	4.91	14.3	1.91	12.1	1.75	3.6
462.60	467.52	HC22-4363	2433.26	2153.3	279.96	668.73	517	1005	118.5	449	63.8	143.5	10.8	46.9	5.93	31.5	5.73	17.1	2.22	14.25	2.03	4.6
467.52	472.44	HC22-4364	2282.88	2004.7	278.18	630.72	483	928	108	423	62.7	144	10.45	46	5.82	31.2	5.72	17	2.19	13.85	1.95	4.3
472.44	477.36	HC22-4365	2150.89	1869.9	280.99	609.56	438	861	102	408	60.9	143.5	10.65	47.6	6.06	32.6	5.92	17.2	2.2	13.35	1.91	4.4
477.36	482.28	HC22-4366	2036.1	1772.3	263.8	575.26	415	818	95.7	386	57.6	133.5	10.65	45.4	5.86	30.1	5.56	16.1	2.08	12.7	1.85	4.4
482.28	487.20	HC22-4367	2173.2	1906.1	267.1	616.07	451	875	103	416	61.1	136.5	10.7	45.7	5.77	30.2	5.39	16	2.11	12.85	1.88	4.8
487.20	492.13	HC22-4368	2039.09	1803.6	235.49	560.47	421	852	92.3	380	58.3	126	10.4	36.7	4.67	25.2	4.75	13.3	1.84	10.95	1.68	5.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM021	4,634,871.74	475,053.72	5,783.01	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
0.00	4.92	HC22-4370	425.4	356.45	68.95	114.47	82.1	168.5	18.75	74.2	12.9	39	2.01	9.22	1.33	7.29	1.39	4.1	0.53	3.52	0.56	10.9
4.92	9.84	HC22-4371	2377.08	2092.8	284.28	651.92	497	983	107.5	435	70.3	151.5	8.32	47.4	6.32	32.8	6.18	15.55	2	12.3	1.91	6
9.84	14.76	HC22-4372	2427.91	2159.1	268.81	672.68	514	1010	110.5	454	70.6	140.5	8.72	46.5	6.08	31.5	5.69	14.6	1.94	11.55	1.73	3.9
14.76	19.69	HC22-4373	2514.33	2239.4	274.93	687.55	535	1055	115	461	73.4	145	8.77	46.6	6.15	32	5.75	14.95	1.96	11.9	1.85	4.3
19.69	24.61	HC22-4374	2508.04	2207.6	300.44	691.51	514	1045	113.5	461	74.1	156.5	8.86	51.2	6.91	36	6.52	16.6	2.21	13.55	2.09	4.8
24.61	29.53	HC22-4375	2812.89	2491.2	321.69	771.26	585	1180	128.5	516	81.7	168.5	8.49	55.8	7.26	37.8	6.83	18.15	2.3	14.4	2.16	5.1
29.53	34.45	HC22-4376	2726.82	2408.2	318.62	757.61	560	1135	124	507	82.2	170	8.47	53.6	7.11	37.3	6.75	17.05	2.32	13.85	2.17	4.7
34.45	39.37	HC22-4377	2815.42	2489	326.42	779.27	576	1180	128.5	522	82.5	170	8.92	56.7	7.47	38.8	6.93	18.45	2.42	14.4	2.33	5.6
39.37	44.29	HC22-4378	2949.23	2640	309.23	806.9	616	1260	135	545	84	162	8.88	54.2	6.8	36.1	6.41	17	2.24	13.6	2	4.7
44.29	49.21	HC22-4379	2722.65	2419.8	302.85	754.52	566	1140	124.5	509	80.3	162	8.11	51	6.42	34.3	6.31	16.7	2.22	13.5	2.29	4.4
49.21	54.13	HC22-4380	2871.4	2542	329.4	787.29	591	1210	131	527	83	174	8.32	56	7.49	38.8	7.06	18.4	2.45	14.6	2.28	4.4
54.13	59.06	HC22-4381	2728.69	2374.7	353.99	755.1	549	1120	123	500	82.7	190	8.39	57.9	7.8	41.6	7.7	19.9	2.69	15.55	2.46	5.9
59.06	63.98	HC22-4382	2681.87	2343.3	338.57	740.67	544	1105	119.5	493	81.8	181.5	8.4	56.7	7.47	38.9	7.36	18.7	2.52	14.8	2.22	4.7
63.98	68.90	HC22-4383	2900.5	2566.9	333.6	797.27	596	1220	132	534	84.9	177.5	8.45	56	7.37	39	7.09	18.4	2.44	14.9	2.45	4.5
68.90	73.82	HC22-4384	3085.53	2729.7	355.83	852.82	641	1285	139	573	91.7	189.5	8.81	59	7.62	41.5	7.5	20	2.59	16.75	2.56	5.7
73.82	78.74	HC22-4385	2521.35	2203.1	318.25	694.61	517	1035	113	462	76.1	173	8.22	51	6.91	36.6	6.69	17.1	2.4	14.2	2.13	5.3
78.74	83.66	HC22-4386	2911.48	2567.8	343.68	797.06	599	1220	132	531	85.8	181.5	8.69	58.4	7.76	40.5	7.26	19.4	2.5	15.5	2.17	5.1
83.66	88.58	HC22-4387	2726.43	2393	333.43	747.36	557	1135	122	498	81	177.5	8.3	55.6	7.46	38.9	7.24	18.4	2.52	15.2	2.31	3.8
88.58	93.50	HC22-4388	2883.28	2534.8	348.48	796.03	591	1195	130.5	533	85.3	189.5	8.12	56.5	7.63	39.6	7.39	19.15	2.54	15.65	2.4	5.7
93.50	98.43	HC22-4390	2868.74	2517.7	351.04	791.6	580	1195	128.5	528	86.2	187.5	8.3	58.4	7.9	41	7.56	19.95	2.65	15.35	2.43	5.4
98.43	103.35	HC22-4391	3030.12	2657.8	372.32	841.09	618	1250	136.5	561	92.3	203	8.08	60.4	8.19	43.1	8.19	20.3	2.69	15.9	2.47	5.4
103.35	108.27	HC22-4392	2657.11	2319.7	337.41	739.81	533	1095	119.5	490	82.2	179.5	7.97	56.7	7.61	40.5	7.42	18.9	2.43	14.2	2.18	5.8
108.27	113.19	HC22-4393	2464.19	2146.6	317.59	682.38	494	1015	110	451	76.6	170.5	7.52	52.3	7.08	37.7	6.87	17.75	2.3	13.4	2.17	4.6
113.19	118.11	HC22-4394	2716.67	2369.8	346.87	750.52	549	1120	122	494	84.8	184.5	8.06	57.5	8.02	41.7	7.56	19.65	2.54	15.15	2.19	5.2
118.11	123.03	HC22-4395	2539.34	2219.4	319.94	701.07	518	1045	113.5	464	78.9	172.5	7.89	52.6	7.17	37.5	6.85	17.5	2.34	13.5	2.09	4.7
123.03	127.95	HC22-4396	2617.84	2293.7	324.14	727.02	538	1075	118	484	78.7	172.5	7.71	53.8	7.42	38.9	7.06	18.4	2.35	13.9	2.1	4.6
127.95	132.87	HC22-4397	2852.65	2499.3	353.35	789.04	581	1180	127	524	87.3	187.5	8.32	59.5	8.04	42.7	7.59	19.35	2.57	15.5	2.28	4.1
132.87	137.80	HC22-4398	2827.72	2474.2	353.52	786.41	564	1175	127.5	520	87.7	187.5	7.93	59.7	8.01	43.2	7.63	19.3	2.65	15.4	2.2	4.3
137.80	142.72	HC22-4399	2838.4	2504.7	333.7	786.64	586	1180	129	523	86.7	176	8.12	58	7.84	40.1	7.07	18.4	2.36	13.7	2.11	5.3

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM021	*4,634,871.74*	*475,053.72*	*5,783.01*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-4400	3362.66	2972	390.66	903.1	704	1420	154.5	592	101.5	199.5	8.63	76.1	8.9	46.2	8.47	20.8	2.73	16.8	2.53	5
147.64	152.56	HC22-4401	3344.6	2956	388.6	906.49	705	1400	156.5	591	103.5	197	8.81	76.5	8.79	46.7	8.28	20.4	2.72	16.8	2.6	4.4
152.56	157.48	HC22-4402	3543.13	3142.5	400.63	962.54	732	1505	165.5	630	110	203	8.55	79.1	9.24	47.8	8.55	21.3	2.85	17.45	2.79	2.7
157.48	162.40	HC22-4403	3378.93	2991.5	387.43	913.69	703	1430	156.5	600	102	196	8.68	76	8.99	46.2	8.38	20.6	2.74	17.15	2.69	4.3
162.40	167.32	HC22-4404	3261.03	2891.5	369.53	878.9	680	1385	151	575	100.5	185	8.81	74.8	8.6	43.8	7.95	19.55	2.58	15.95	2.49	3
167.32	172.24	HC22-4405	2889.11	2567.7	321.41	789.78	603	1220	135	519	90.7	164	8.44	63.1	7.48	37.6	6.81	16.25	2.28	13.35	2.1	2.8
172.24	177.17	HC22-4406	2860.55	2535.1	325.45	777.63	599	1205	133.5	509	88.6	163	7.98	64.8	7.83	38.7	6.98	17.4	2.28	14.3	2.18	3.5
177.17	182.09	HC22-4407	3082.94	2726	356.94	842.48	630	1305	143.5	550	97.5	178	8.8	72.5	8.38	43.1	7.66	18.4	2.49	15.35	2.26	3.7
182.09	187.01	HC22-4408	3009.48	2670.1	339.38	820.57	620	1280	138	539	93.1	166.5	8.52	68.8	7.97	42.5	7.26	18.05	2.4	15.1	2.28	4.2
187.01	191.93	HC22-4409	3007.36	2671.2	336.16	826.07	623	1270	140.5	542	95.7	169.5	7.89	67.4	7.87	40	7.26	17.25	2.36	14.4	2.23	4.3
191.93	196.85	HC22-4411	3056.11	2727.1	329.01	835.97	638	1300	144.5	550	94.6	165	7.75	66.8	7.67	39.2	6.88	17.05	2.32	14.2	2.14	4.1
196.85	201.77	HC22-4412	4224.36	3780	444.36	1155.75	878	1810	199.5	762	130.5	222	8.43	92.3	10.55	53.2	9.33	23	3.02	19.4	3.13	4.4
201.77	206.69	HC22-4413	3606.43	3222.5	383.93	986.03	765	1525	170	651	111.5	196	8.01	76.7	8.63	44.9	8.06	19.7	2.62	16.5	2.81	3.5
206.69	211.61	HC22-4414	3045.05	2724	321.05	825.69	639	1305	142	544	94	161	7.83	64.6	7.39	38.3	6.81	16.6	2.23	14.05	2.24	2.7
211.61	216.54	HC22-4415	3003.29	2680.9	322.39	813.78	627	1285	140.5	537	91.4	163	8.14	65	7.08	37.8	6.64	16.45	2.26	13.7	2.32	3.9
216.54	221.46	HC22-4416	3063.76	2740.7	323.06	839.48	647	1300	144	555	94.7	160.5	8.69	65.7	7.38	38.4	6.78	16.9	2.31	14.25	2.15	3.8
221.46	226.38	HC22-4417	2767.47	2474.8	292.67	752.93	583	1180	129.5	497	85.3	146	8.32	59.6	6.83	34.3	6.16	14.8	2.01	12.6	2.05	3.5
226.38	231.30	HC22-4418	3096.99	2782.7	314.29	839.84	647	1340	146	555	94.7	157.5	8.19	64	7.24	36.9	6.65	15.95	2.27	13.45	2.14	3.4
231.30	236.22	HC22-4419	3505.74	3167	338.74	950.98	744	1520	167.5	630	105.5	168	8.55	71	7.98	40	7.02	17	2.31	14.55	2.33	2.9
236.22	241.14	HC22-4420	4219.97	3815	404.97	1161.73	886	1825	202	773	129	201	8.65	86.1	9.43	48.3	8.3	20.4	2.8	17.15	2.84	3.6
241.14	246.06	HC22-4421	3799.54	3431	368.54	1034.82	794	1655	180	687	115	181.5	8.98	77.5	8.72	44.1	7.63	18.8	2.49	16.25	2.57	3.4
246.06	250.98	HC22-4422	3004.58	2709.3	295.28	810.87	635	1305	142	536	91.3	145.5	8.12	61.7	6.77	34.8	6.13	15.1	2.08	13.05	2.03	4.2
250.98	255.91	HC22-4423	3390.92	3053.5	337.42	922.25	724	1455	160	612	102.5	167.5	8.86	69.9	7.75	40	6.99	16.75	2.34	14.95	2.38	4.5
255.91	260.83	HC22-4424	3229.15	2910.4	318.75	886.87	693	1375	154	589	99.4	157.5	8.8	66.4	7.47	37	6.59	16.65	2.23	13.85	2.26	2.8
260.83	265.75	HC22-4425	3233.35	2914.1	319.25	871.61	687	1400	152.5	578	96.6	158.5	8.77	66.5	7.31	37.2	6.49	16.35	2.23	13.7	2.2	4.6
265.75	270.67	HC22-4426	3326.18	2996	330.18	905.63	706	1430	156.5	603	100.5	165.5	8.74	67.2	7.53	38.1	6.91	16.9	2.37	14.65	2.28	2.8
270.67	275.59	HC22-4427	3166.48	2847.6	318.88	862.6	666	1365	150	571	95.6	157	9.11	65.1	7.4	38.6	6.6	16.35	2.26	14.2	2.26	3.6
275.59	280.51	HC22-4428	3435.37	3111.5	323.87	934.82	737	1485	164	623	102.5	159.5	9.42	68	7.62	37.7	6.63	16.45	2.4	13.9	2.25	4.4
280.51	285.43	HC22-4430	3309.92	2995.9	314.02	894.57	705	1440	157.5	595	98.4	156	8.67	65.5	7.27	36.4	6.52	15.8	2.2	13.6	2.06	2.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM021	*4,634,871.74*	*475,053.72*	*5,783.01*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
285.43	290.35	HC22-4431	3346.27	3036.1	310.17	905.42	713	1460	159.5	605	98.6	157	8.76	62.2	6.92	35.4	6.34	15.7	2.14	13.6	2.11	2.7
290.35	295.28	HC22-4432	3532.75	3178	354.75	956.38	751	1520	166	636	105	181.5	8.74	68.5	7.88	41.5	7.36	18.45	2.45	15.8	2.57	3.8
295.28	300.20	HC22-4433	2934.68	2569.9	364.78	790.72	606	1225	134.5	512	92.4	188	8.73	67.3	8.22	43.6	7.77	19.7	2.57	16.25	2.64	3.7
300.20	305.12	HC22-4434	3645.24	3261.5	383.74	984.45	767	1565	170	649	110.5	193.5	9.27	77	9.05	45.9	8.21	19.4	2.67	16.3	2.44	3.6
305.12	310.04	HC22-4435	3131.26	2764.1	367.16	846.61	650	1320	144	552	98.1	188.5	8.39	70.2	8.51	44	7.71	19.15	2.58	15.7	2.42	3.1
310.04	314.96	HC22-4436	3235.23	2862.8	372.43	865.38	689	1365	149.5	560	99.3	187	8.91	68.9	8.78	47.8	7.78	20.9	2.52	17.35	2.49	4.4
314.96	319.88	HC22-4437	3210.77	2844	366.77	858.52	676	1365	148	558	97	185	8.72	67.6	8.62	46.9	7.46	20.8	2.56	16.65	2.46	4.7
319.88	324.80	HC22-4438	3469.45	3075.5	393.95	935.47	735	1465	161.5	606	108	199.5	8.72	72.9	9.17	50.8	8.11	21.8	2.69	17.7	2.56	4.7
324.80	329.72	HC22-4439	2947.14	2625.8	321.34	795.63	629	1250	138.5	520	88.3	161	8.15	60	7.83	41	6.49	17.95	2.2	14.5	2.22	4
329.72	334.65	HC22-4440	3197.02	2852.5	344.52	859.57	685	1360	149	562	96.5	171.5	8.51	64.6	7.97	44.1	7.35	19.45	2.42	16.35	2.27	4
334.65	339.57	HC22-4441	3566.63	3190.5	376.13	958.62	769	1520	166	630	105.5	186	8.45	72.8	8.82	48.3	7.66	21.4	2.55	17.55	2.6	4.8
339.57	344.49	HC22-4442	3886.91	3480	406.91	1054.26	837	1650	183.5	692	117.5	204	8.09	77.1	9.66	51.6	8.53	23.3	2.73	19.05	2.85	5.7
344.49	349.41	HC22-4443	3534.63	3170	364.63	957.86	756	1510	166	630	108	183	7.48	69.9	8.36	45.5	7.53	20.7	2.53	17.15	2.48	2.9
349.41	354.33	HC22-4444	3201.76	2867.1	334.66	859.64	693	1365	150.5	562	96.6	166	7.4	64.7	7.74	42.8	6.78	18.95	2.25	15.85	2.19	3.9
354.33	359.25	HC22-4445	3079.9	2753.7	326.2	830.83	667	1305	144.5	544	93.2	164.5	8	60.7	7.53	41.6	6.65	18.2	2.14	14.7	2.18	3.4
359.25	364.17	HC22-4446	3011.02	2695.2	315.82	806.84	640	1295	140	530	90.2	156.5	8.23	61.2	7.34	39.3	6.46	17.9	2.18	14.6	2.11	4.7
364.17	369.09	HC22-4447	3160.32	2835.7	324.62	853.25	677	1355	148.5	560	95.2	158	8.9	63.3	7.75	41.8	6.68	18.2	2.14	15.55	2.3	3.3
369.09	374.02	HC22-4448	3195.21	2877	318.21	857.54	687	1380	150.5	564	95.5	158	8.06	62.2	7.54	40	6.46	17.35	2.1	14.4	2.1	3.9
374.02	378.94	HC22-4450	3214.57	2914.7	299.87	860.92	694	1405	150.5	572	93.2	145.5	8.08	60.6	7.22	38	5.95	16.25	1.97	14.25	2.05	5.1
378.94	383.86	HC22-4451	3028.67	2758.4	270.27	806.06	672	1320	144	534	88.4	131.5	7.77	54.2	6.36	33.3	5.27	14.65	1.88	13.4	1.94	4.6
383.86	388.78	HC22-4452	3142.93	2841.9	301.03	852.07	679	1355	149	563	95.9	148.5	8.24	59.5	6.97	37.2	6.07	16.3	1.93	14.2	2.12	3.2
388.78	393.70	HC22-4453	3427.39	3108	319.39	936.1	734	1485	164	622	103	156.5	8.78	64.1	7.6	39.5	6.43	17.3	2.05	15	2.13	4.9
393.70	398.62	HC22-4454	2368.5	2103	265.5	643.52	498	1000	110.5	421	73.5	132.5	8.51	49.2	6.02	32.5	5.48	14.95	1.79	12.65	1.9	4.8
398.62	403.54	HC22-4455	3227.79	2918.8	308.99	870.29	705	1390	153	578	92.8	150	10.1	60.6	7.29	39.2	6.19	17.15	2.02	14.3	2.14	4.7
403.54	408.46	HC22-4456	2588.43	2292.1	296.33	715.16	540	1080	121	469	82.1	149.5	9.46	53.8	6.66	36.4	6.01	16.35	1.99	14.1	2.06	4.5
408.46	413.39	HC22-4457	3165.25	2850.5	314.75	861.51	676	1360	149.5	571	94	153.5	9.89	61.5	7.41	39.6	6.36	17.55	2.08	14.6	2.26	3.9
413.39	418.31	HC22-4458	2999.43	2692.4	307.03	802.07	651	1285	139.5	527	89.9	152	9.72	57.5	7.17	38.5	6.2	16.8	2.08	14.85	2.21	3.7
418.31	423.23	HC22-4459	3622.49	3291	331.49	977.57	797	1565	174	650	105	163.5	10.45	64.1	7.67	40.9	6.67	18.3	2.24	15.35	2.31	4.5
423.23	428.15	HC22-4460	3601.1	3274	327.1	970.08	792	1560	172.5	647	102.5	161.5	10.8	62.9	7.58	40.5	6.68	17.7	2.18	15	2.26	4.9

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM021	4,634,871.74	475,053.72	5,783.01	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-4461	3649.16	3323	326.16	977.5	803	1590	173.5	652	104.5	161.5	10.5	63.5	7.4	40.1	6.48	17.4	2.2	14.85	2.23	3.5
433.07	437.99	HC22-4462	3434.37	3116.8	317.57	926.32	752	1485	163	617	99.8	156.5	10.4	61.7	7.32	39.2	6.38	17.35	2.14	14.5	2.08	4.6
437.99	442.91	HC22-4463	3597.62	3275	322.62	965.67	792	1565	171.5	642	104.5	158.5	10.45	63.1	7.67	40	6.37	17.35	2.1	14.9	2.18	2.5
442.91	447.83	HC22-4464	3211.3	2926	285.3	862.51	695	1410	153	576	92	140.5	9.49	55.6	6.71	34.8	5.71	15.7	1.95	12.9	1.94	4.1
447.83	452.76	HC22-4465	3902.17	3572	330.17	1041.16	864	1715	186.5	697	109.5	162.5	10.4	65.2	7.76	40.4	6.57	18.45	2.18	14.5	2.21	4.2
452.76	457.68	HC22-4466	3752.18	3414	338.18	1007.27	826	1630	179.5	670	108.5	166.5	10.35	66.4	7.77	41.5	6.83	18.6	2.26	15.65	2.32	3.4
457.68	462.60	HC22-4467	3753.95	3419.5	334.45	1007.98	825	1635	180	673	106.5	165.5	10.55	65.8	7.68	40.8	6.68	18.1	2.16	15	2.18	3.4
462.60	467.52	HC22-4468	3794.29	3459	335.29	1022.25	836	1650	183	682	108	165	10.35	66.4	7.85	41.4	6.64	17.95	2.13	15.3	2.27	3.9
467.52	472.44	HC22-4469	3744.88	3425.5	319.38	996.19	826	1650	180	666	103.5	157.5	10.3	62.9	7.29	39.4	6.24	16.85	2.11	14.7	2.09	4.2
472.44	477.36	HC22-4471	3635.18	3321.5	313.68	980.81	801	1585	176.5	655	104	155	10.35	61.5	7.21	38.1	6.24	17.25	2.12	13.85	2.06	3.7
477.36	482.28	HC22-4472	3685.3	3362	323.3	1016.13	797	1595	174	694	102	156	10.5	67.2	7.73	38.4	6.79	17.6	2.1	14.75	2.23	4.1
482.28	487.20	HC22-4473	3645.42	3330.1	315.32	994.09	796	1585	169.5	680	99.6	152.5	10.15	65.5	7.39	37.6	6.74	17.25	2.05	13.95	2.19	3.3
487.20	492.13	HC22-4474	3254.94	2960.9	294.04	892.55	705	1405	152.5	608	90.4	142.5	9.78	60.1	6.85	34.8	6.27	16.2	1.97	13.5	2.07	3.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM022	*4,635,044.03*	*474,934.57*	*5,817.78*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-4475	2570.32	2317.3	253.02	713.21	550	1090	119.5	486	71.8	125	8.86	49	5.81	30.1	5.19	13.45	1.76	12	1.85	3.8
4.92	9.84	HC22-4476	3182.21	2869	313.21	876.56	681	1355	149	596	88	154	9.53	62	7.36	36.2	6.59	17.55	2.25	15.35	2.38	4.7
9.84	14.76	HC22-4477	3460.72	3107	353.72	953.19	743	1460	161.5	647	95.5	177.5	10.65	67	7.89	41.3	7.42	19.7	2.42	17.2	2.64	4.1
14.76	19.69	HC22-4478	3286.25	2965.5	320.75	909.2	701	1400	154	619	91.5	160	9.41	61.4	7.2	37.5	6.63	17.65	2.33	16.3	2.33	4.3
19.69	24.61	HC22-4479	3282.61	2943.7	338.91	904.12	700	1385	156.5	608	94.2	178	9.02	59.8	7.42	38	7.04	18.25	2.6	16.15	2.63	2.6
24.61	29.53	HC22-4480	3262.04	2921.2	340.84	897.61	699	1370	156	603	93.2	178	9.57	60.4	7.61	37.8	7.15	18.4	2.54	16.7	2.67	3.1
29.53	34.45	HC22-4481	3210.2	2905.7	304.5	889.2	694	1365	151	606	89.7	151.5	8.61	59	6.9	35.6	6.31	16.7	2.25	15.1	2.53	3.7
34.45	39.37	HC22-4482	3274.54	2941.3	333.24	904.41	697	1385	153.5	614	91.8	170.5	9.42	61.4	7.31	37.8	6.85	18.65	2.34	16.45	2.52	2.9
39.37	44.29	HC22-4483	3310.09	2980.6	329.49	914.69	706	1405	153	624	92.6	167	9.13	62.1	7.39	37.7	6.8	17.95	2.33	16.55	2.54	2.4
44.29	49.21	HC22-4484	3175.38	2844.9	330.48	875.18	679	1335	148.5	591	91.4	169.5	8.6	60.7	7.18	37.1	6.88	18.9	2.32	16.8	2.5	3.7
49.21	54.13	HC22-4485	3331.21	2993.9	337.31	921.35	699	1420	154	624	96.9	169.5	9.53	64	7.65	38.8	6.97	19.6	2.35	16.4	2.51	3
54.13	59.06	HC22-4486	3441.35	3096.9	344.45	950.55	724	1470	159.5	647	96.4	174	9.61	65.2	7.95	39.7	7.22	18.75	2.52	16.9	2.6	3.5
59.06	63.98	HC22-4487	3320.29	2988.1	332.19	917.57	716	1400	155.5	624	92.6	168.5	9.34	62.5	7.37	38.1	6.94	18.3	2.34	16.25	2.55	4.6
63.98	68.90	HC22-4488	3306.75	2991.6	315.15	908.63	706	1420	155	619	91.6	159	8.92	60.6	7.13	35.9	6.55	17.15	2.21	15.3	2.39	3.8
68.90	73.82	HC22-4490	3382.54	3026.2	356.34	929.67	720	1425	157.5	629	94.7	180.5	10	67.7	8.17	40.3	7.45	19.95	2.53	17.1	2.64	4.8
73.82	78.74	HC22-4491	3193.86	2873.1	320.76	880.98	682	1355	147.5	599	89.6	160.5	9.23	61.3	7.38	37.5	6.67	17.45	2.19	16.1	2.44	3.5
78.74	83.66	HC22-4492	3292.21	2953.6	338.61	908.86	687	1405	153.5	614	94.1	169.5	9.63	64.7	7.76	39.5	7.04	19.2	2.36	16.4	2.52	3.5
83.66	88.58	HC22-4493	3075.2	2744.8	330.4	848.81	643	1300	142.5	572	87.3	165.5	9	62.3	7.41	39.6	7.04	18.4	2.3	16.35	2.5	5.6
88.58	93.50	HC22-4494	3093.1	2764.6	328.5	852.49	663	1295	142.5	576	88.1	167.5	9.2	59.6	7.39	38.5	7.04	18.65	2.36	15.85	2.41	4.5
93.50	98.43	HC22-4495	3140.32	2807.2	333.12	853.1	666	1335	145.5	575	85.7	167.5	9.34	62.2	7.6	39.3	7.08	19	2.4	16.2	2.5	4.4
98.43	103.35	HC22-4496	3116.05	2776.4	339.65	848.93	659	1315	143.5	571	87.9	174	8.81	62	7.53	39	7.28	19.2	2.33	16.9	2.6	4
103.35	108.27	HC22-4497	3125.5	2784.7	340.8	863.75	659	1310	145	583	87.7	172	9.15	62.8	7.55	40.5	7.33	19.2	2.55	17.15	2.57	4.6
108.27	113.19	HC22-4498	3071.07	2733.9	337.17	843.27	647	1290	141.5	568	87.4	171.5	8.78	62.6	7.47	38.9	7.18	19.1	2.39	16.65	2.6	4.1
113.19	118.11	HC22-4499	2934.21	2614.7	319.51	805.06	619	1235	135.5	542	83.2	163	8.52	58.5	7.06	37.3	6.78	18.2	2.23	15.55	2.37	4.7
118.11	123.03	HC22-4500	3200.94	2860	340.94	887.18	675	1345	148.5	601	90.5	175	9.04	62.7	7.68	39.5	7.19	18.75	2.38	16.3	2.4	3.6
123.03	127.95	HC22-4501	3248.13	2903.3	344.83	894.67	701	1355	151	604	92.3	178	8.71	62.9	7.77	39.6	7.35	19.2	2.42	16.5	2.38	5.5
127.95	132.87	HC22-4502	3310.33	2948.8	361.53	907.69	698	1395	150.5	611	94.3	182	9.39	67	8.09	43.8	7.76	20.8	2.57	17.65	2.47	3.7
132.87	137.80	HC22-4503	3305.41	2960.3	345.11	916.08	703	1390	153.5	620	93.8	173.5	9.81	65.7	7.88	40.9	7.35	19.35	2.36	15.75	2.51	4.4
137.80	142.72	HC22-4504	3267.85	2949.6	318.25	898.37	712	1385	152.5	610	90.1	156	9.42	63.5	7.57	38.2	6.94	18	2.13	14.3	2.19	3.9

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM022	*4,635,044.03*	*474,934.57*	*5,817.78*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
142.72	147.64	HC22-4505	3311.09	2994.1	316.99	903.31	721	1415	154	616	88.1	157.5	9.36	61.3	7.31	37.9	6.76	17.65	2.16	14.9	2.15	3.9
147.64	152.56	HC22-4506	3354.21	3011.3	342.91	924.08	711	1425	154.5	625	95.8	170.5	9.29	66.6	7.98	40.8	7.26	19.4	2.3	16.35	2.43	3.9
152.56	157.48	HC22-4507	3526.1	3180.5	345.6	970.46	750	1510	162.5	658	100	171	10.05	67	8.16	41.8	7.42	19.3	2.38	16.1	2.39	4.6
157.48	162.40	HC22-4508	3466.93	3114.9	352.03	946.19	745	1475	158	637	99.9	179	9.15	65.2	8.19	43.1	7.45	18.8	2.42	16.3	2.42	4.1
162.40	167.32	HC22-4510	3564.73	3211.5	353.23	965.28	763	1535	162	651	100.5	178.5	8.8	66.2	8.38	43.4	7.48	18.75	2.48	16.8	2.44	4
167.32	172.24	HC22-4511	3469.32	3126	343.32	951.99	745	1480	160	641	100	173.5	8.52	64.2	8.19	42.8	7.26	18.4	2.38	15.75	2.32	3
172.24	177.17	HC22-4512	3562.04	3212.5	349.54	982.43	776	1505	165	663	103.5	177.5	8.66	65.2	8.13	42.8	7.35	19	2.49	16.05	2.36	3.8
177.17	182.09	HC22-4513	3363.08	3043.8	319.28	920.4	726	1445	155.5	620	97.3	159.5	8.4	60.9	7.5	40.1	6.82	16.6	2.24	15	2.22	5.4
182.09	187.01	HC22-4514	3439.96	3105.8	334.16	948.67	746	1460	160	640	99.8	168.5	8.7	63.4	7.87	41	6.9	17.5	2.29	15.7	2.3	3.3
187.01	191.93	HC22-4515	3595.74	3253.5	342.24	982.89	777	1545	166.5	663	102	166	9.3	68.3	8.39	43	7.22	18.75	2.45	16.4	2.43	4.4
191.93	196.85	HC22-4516	3596.51	3269.5	327.01	983.93	778	1555	168.5	667	101	162.5	8.88	64	7.93	39.5	7	17.4	2.35	15.2	2.25	3.5
196.85	201.77	HC22-4517	3399.68	3071.9	327.78	940.63	724	1455	157	640	95.9	163	8.95	63.3	7.63	40.1	6.9	17	2.28	16.3	2.32	3.7
201.77	206.69	HC22-4518	3286.3	2965	321.3	903.93	707	1400	152	611	95	163	8.31	59.9	7.43	38.5	6.68	17.3	2.26	15.6	2.32	3.6
206.69	211.61	HC22-4519	3405.48	3074.6	330.88	937.66	735	1450	158	634	97.6	165.5	8.9	63.2	7.86	40.2	7.11	17.7	2.33	15.65	2.43	3.7
211.61	216.54	HC22-4520	3467.94	3147.5	320.44	952.37	751	1490	161	646	99.5	160.5	8.94	62.5	7.47	38.4	6.59	16.65	2.23	14.75	2.41	3.5
216.54	221.46	HC22-4521	3420.62	3072.4	348.22	941.98	726	1455	157.5	634	99.9	176	9.35	64.9	8.08	42.5	7.35	18.35	2.47	16.75	2.47	3.3
221.46	226.38	HC22-4522	3437.04	3101	336.04	943.18	741	1465	159.5	637	98.5	168	9.7	64.9	7.78	40.4	7.06	17.75	2.37	15.7	2.38	4.3
226.38	231.30	HC22-4523	3697.89	3367.5	330.39	1015.59	805	1595	172	690	105.5	162.5	8.95	66.3	7.89	40.2	6.78	17.5	2.31	15.7	2.26	4
231.30	236.22	HC22-4524	3659.71	3322	337.71	1008.45	793	1570	171	683	105	166.5	9.97	66.3	7.95	41.5	7.06	18.2	2.33	15.5	2.4	4.2
236.22	241.14	HC22-4525	3777.45	3461.5	315.95	1033.78	828	1645	177.5	705	106	155	10.2	63.8	7.38	37.9	6.4	16.05	2.15	14.85	2.22	3.4
241.14	246.06	HC22-4526	3688.06	3353	335.06	1013.32	799	1590	171.5	688	104.5	163	10.2	66.5	8.02	41.3	6.97	18.2	2.32	16.15	2.4	2.4
246.06	250.98	HC22-4527	3526.68	3212.5	314.18	976.21	767	1515	165	665	100.5	152	10.45	63.2	7.51	38.2	6.44	16.4	2.18	15.6	2.2	4.7
250.98	255.91	HC22-4528	3691.52	3363.5	328.02	1023.89	807	1580	174	698	104.5	160.5	10.4	65.1	7.79	39.6	6.81	17.15	2.19	15.95	2.53	4
255.91	260.83	HC22-4529	3542.1	3223.5	318.6	974.59	770	1525	164.5	664	100	155.5	10.6	63.1	7.69	38.4	6.61	16.5	2.29	15.55	2.36	4.7
260.83	265.75	HC22-4531	3136.26	2848.3	287.96	860.5	679	1350	147	582	90.3	141	9.73	56.5	6.6	34.6	5.89	15.25	2.11	14.2	2.08	4
265.75	270.67	HC22-4532	3298.46	2992.6	305.86	911.92	715	1410	153	619	95.6	151	10.2	58.7	7.12	37.2	6.4	16.25	2.11	14.7	2.18	4.2
270.67	275.59	HC22-4533	3181.74	2876.6	305.14	878.37	687	1355	148	595	91.6	151	9.68	58.3	7.17	36.6	6.4	16.4	2.14	15.15	2.3	4.3
275.59	280.51	HC22-4534	3280.94	2950.9	330.04	901.38	714	1380	156.5	608	92.4	170.5	10.15	60	7.58	36.9	6.85	17.2	2.53	15.7	2.63	4.1
280.51	285.43	HC22-4535	3334.69	3020.1	314.59	916.58	731	1415	160.5	621	92.6	161.5	10.05	58.6	7.28	35.2	6.49	16.7	2.33	14.1	2.34	3.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM022	*4,635,044.03*	*474,934.57*	*5,817.78*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-4536	3415.13	3118.7	296.43	942.86	748	1470	160.5	645	95.2	147.5	9.37	56.9	6.86	35.3	6.05	15.6	2.14	14.55	2.16	3.4
290.35	295.28	HC22-4537	3243.43	2919.5	323.93	901.16	690	1375	151	610	93.5	161	9.29	60.8	7.56	39.1	6.7	18.3	2.36	16.45	2.37	3.9
295.28	300.20	HC22-4538	3889.05	3570	319.05	1064.7	857	1695	183	726	109	154	11.05	65.8	7.7	39	6.5	16.05	2.2	14.6	2.15	4.1
300.20	305.12	HC22-4539	2925.33	2635.7	289.63	813.47	619	1245	136	549	86.7	143	10.1	55.1	6.77	35	5.94	15.15	2.05	14.4	2.12	4.9
305.12	310.04	HC22-4540	4135.26	3809	326.26	1129.33	922	1805	195	773	114	157.5	11.25	68	8.03	39.3	6.78	16.45	2.18	14.6	2.17	4.5
310.04	314.96	HC22-4541	3345.64	3056.7	288.94	912.06	737	1450	153.5	622	94.2	139	10.45	58.9	6.86	35.5	5.95	14.2	1.95	14	2.13	4.2
314.96	319.88	HC22-4542	3726.43	3442	284.43	1018.88	830	1635	176	698	103	134.5	11.4	59.1	6.88	35	5.67	14.45	1.92	13.55	1.96	4.2
319.88	324.80	HC22-4543	3623	3304	319	1003.79	793	1555	169.5	683	103.5	154	11.05	63.5	7.79	40	6.49	16.25	2.2	15.4	2.32	4.3
324.80	329.72	HC22-4544	4092.78	3769.5	323.28	1092.23	910	1815	192.5	741	111	156.5	10.65	64.8	7.93	39.8	6.3	17.55	2.25	15.2	2.3	3.9
329.72	334.65	HC22-4545	3983.06	3669	314.06	1074.56	881	1760	189.5	725	113.5	150	10.8	63.6	7.86	38.7	6.13	17.35	2.18	15.15	2.29	4.1
334.65	339.57	HC22-4546	3723.03	3411.5	311.53	997.89	814	1645	176.5	671	105	152	10.4	61	7.39	38	6.09	17.55	2.23	14.65	2.22	4.2
339.57	344.49	HC22-4547	3543.46	3258.8	284.66	950.04	785	1565	169	643	96.8	139.5	10.3	55.4	6.94	34.3	5.67	15.3	2.01	13.15	2.09	3.9
344.49	349.41	HC22-4548	3980.37	3659	321.37	1065.29	876	1765	189.5	719	109.5	153	11.45	65.5	8.09	39.2	6.33	18.15	2.2	15	2.45	6.1
349.41	354.33	HC22-4550	3909.77	3596.5	313.27	1050.34	852	1740	187.5	709	108	151	11.3	62.7	7.74	38.1	6.13	17.3	2.21	14.6	2.19	4.8
354.33	359.25	HC22-4551	4085	3757.5	327.5	1101.03	904	1800	194.5	745	114	158	11.05	66.6	7.93	39.6	6.52	17.85	2.28	15.3	2.37	5.4
359.25	364.17	HC22-4552	3952.66	3629.5	323.16	1064.06	872	1740	188.5	720	109	157.5	11.35	64.2	7.86	38.7	6.25	17.5	2.25	15.25	2.3	4.3
364.17	369.09	HC22-4553	3532.95	3241.1	291.85	947.13	777	1560	168.5	638	97.6	141.5	10.2	57.4	7.03	36	5.7	16.25	2	13.6	2.17	4.1
369.09	374.02	HC22-4554	3564.45	3255	309.45	958.96	776	1565	168.5	645	100.5	152	10.6	58.6	7.36	37.6	6.18	17.45	2.16	15.25	2.25	4.3
374.02	378.94	HC22-4555	3570.61	3265.1	305.51	955.65	779	1575	167.5	644	99.6	149	10.55	59.7	7.35	37.2	5.96	16.95	2.21	14.35	2.24	4.5
378.94	383.86	HC22-4556	3632.08	3323.5	308.58	978.33	804	1585	172.5	661	101	152.5	9.92	59.7	7.33	36.5	6.11	17.1	2.21	15	2.21	4.3
383.86	388.78	HC22-4557	3973.14	3642.5	330.64	1057.84	873	1760	187.5	713	109	161.5	10.85	64.2	7.94	40.4	6.56	18.3	2.42	16.05	2.42	5.4
388.78	393.70	HC22-4558	3992.9	3657.5	335.4	1057.97	887	1760	187.5	715	108	168	10.15	63.9	7.77	39.7	6.6	18.6	2.3	15.9	2.48	5.3
393.70	398.62	HC22-4559	3876.61	3546	330.61	1033.7	860	1700	182	697	107	163.5	10.9	63.7	7.7	40	6.45	18	2.32	15.65	2.39	3.2
398.62	403.54	HC22-4560	3542.17	3248.9	293.27	946.53	785	1560	167.5	640	96.4	143	10.45	57.1	7.13	35.5	5.8	16.15	2.12	13.9	2.12	4.5
403.54	408.46	HC22-4561	4028.53	3686	342.53	1086.51	890	1760	190.5	733	112.5	168	10.8	65.3	8.21	42.3	6.79	19.6	2.33	16.65	2.55	5.4
408.46	413.39	HC22-4562	3517.8	3205.7	312.1	944.77	771	1535	166.5	636	97.2	155	10.15	58.4	7.37	37.7	6.39	17.85	2.16	14.8	2.28	3.6
413.39	418.31	HC22-4563	3519.92	3212.9	307.02	950.51	781	1525	167.5	641	98.4	153	10.15	58	7.31	36.3	6.09	16.85	2.09	14.95	2.28	4.6
418.31	423.23	HC22-4564	3399.53	3091.4	308.13	915.7	740	1480	160.5	616	94.9	152.5	10.3	58.5	7.4	36.9	6.06	17.45	2.15	14.65	2.22	5
423.23	428.15	HC22-4565	3836.61	3507	329.61	1033.81	822	1700	182	697	106	161	11	63.6	7.91	40.9	6.75	18.45	2.36	15.3	2.34	4.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM022	4,635,044.03	474,934.57	5,817.78	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-4566	3141.71	2865.6	276.11	846.1	699	1360	149.5	570	87.1	135.5	9.85	53.9	6.6	32.9	5.48	15.45	1.94	12.6	1.89	5.4
433.07	437.99	HC22-4567	3562.2	3252.4	309.8	959	788	1550	167.5	649	97.9	151.5	10.4	60.4	7.4	37.2	6.17	17.6	2.18	14.7	2.25	4.7
437.99	442.91	HC22-4568	3800.6	3472.5	328.1	1027.82	832	1660	182.5	691	107	161	11.15	63.9	7.82	39.5	6.5	18.15	2.27	15.35	2.46	5.4
442.91	447.83	HC22-4570	3804.93	3476.5	328.43	1020.33	834	1670	180	689	103.5	161	11.2	63.1	7.73	40.1	6.45	18.9	2.27	15.2	2.48	5.2
447.83	452.76	HC22-4571	3601.22	3272	329.22	971.93	773	1575	170.5	653	100.5	163	10.75	62.1	7.93	40	6.62	18.65	2.35	15.35	2.47	5.3
452.76	457.68	HC22-4572	3473.07	3159.5	313.57	932.07	752	1520	163.5	627	97	154.5	10.95	59.5	7.47	37.1	6.11	17.9	2.22	15.45	2.37	4
457.68	462.60	HC22-4573	4353.42	3990	363.42	1172.9	961	1910	208	791	120	177	10.7	71.9	9	44.9	7.28	20.3	2.53	17.35	2.46	6
462.60	467.52	HC22-4574	4392.72	4010	382.72	1189.1	961	1915	209	803	122	190	11.1	74	9.3	45.8	7.52	21.4	2.71	18.1	2.79	4.7
467.52	472.44	HC22-4575	3604.72	3296	308.72	967.92	798	1575	171	652	100	151	10.55	59.7	7.42	37.5	5.99	17.4	2.25	14.75	2.16	4.4
472.44	477.36	HC22-4576	3452.17	3166.9	285.27	924.48	764	1520	164.5	624	94.4	141	9.43	55	6.88	34.7	5.51	15.5	1.92	13.3	2.03	4.2
477.36	482.28	HC22-4577	4090.63	3742.5	348.13	1103.63	889	1800	194	744	115.5	173	10.45	67.2	8.23	41.9	6.88	19.25	2.45	16.15	2.62	6.3
482.28	487.20	HC22-4578	3625.64	3302	323.64	978.13	786	1585	172	657	102	160	10.55	61.2	7.73	39.4	6.31	17.85	2.26	15.9	2.44	4.5
487.20	492.13	HC22-4579	3510.96	3200.6	310.36	948.31	773	1525	167	638	97.6	151.5	10.55	59.7	7.51	38.2	6.27	17.65	2.2	14.5	2.28	3.7

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM023	*4,634,562.95*	*475,250.25*	*5,768.65*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-4580	305.59	249.41	56.18	80.19	58.8	117.5	12.55	51.3	9.26	31.6	1.48	7.7	1.1	5.98	1.18	3.45	0.46	2.78	0.45	8.4
4.92	9.84	HC22-4581	959.51	823.6	135.91	261.41	181.5	401	39.9	170	31.2	68.9	3.36	24.4	3.46	16.85	2.9	7.92	1.08	6.19	0.85	5.9
9.84	14.76	HC22-4582	2912.16	2561.3	350.86	805.36	596	1215	125	531	94.3	170	7	72.8	9.46	45.6	7.52	19.3	2.44	14.7	2.04	3.2
14.76	19.69	HC22-4583	2841.94	2495	346.94	789.39	585	1175	123	518	94	168	7.12	72.5	9.39	45	7.66	18.9	2.34	14	2.03	3.3
19.69	24.61	HC22-4584	2441.8	2137.5	304.3	683.9	498	1005	105	448	81.5	142.5	7.53	65.9	8.6	40.8	6.74	16.8	2.03	11.7	1.7	3.4
24.61	29.53	HC22-4585	2738.07	2394.8	343.27	747.33	567	1135	117.5	488	87.3	167.5	7.88	69.1	9.13	45.4	7.44	19.15	2.36	13.35	1.96	3
29.53	34.45	HC22-4586	3188.48	2754	434.48	885.15	647	1290	135	577	105	216	8.01	84.7	11.25	56.9	9.54	24.6	3.12	17.75	2.61	4.5
34.45	39.37	HC22-4587	3233.77	2822	411.77	889.25	664	1335	139	581	103	201	7.77	82.7	11.25	55	9.18	23.1	2.99	16.35	2.43	3.9
39.37	44.29	HC22-4588	3188.63	2747.5	441.13	888.6	650	1280	135.5	577	105	215	7.84	87.5	12	59.1	9.83	25.8	3.14	18.2	2.72	3.8
44.29	49.21	HC22-4589	3983.74	3403	580.74	1134.55	772	1590	170	731	140	284	8.57	116.5	16.05	77.5	13.05	33.2	4.17	24.1	3.6	6.1
49.21	54.13	HC22-4591	3369.21	2872	497.21	953.6	658	1340	143.5	615	115.5	246	8.35	97	13.3	66.3	11.15	28.3	3.48	20.3	3.03	4.7
54.13	59.06	HC22-4592	3472.26	2933	539.26	998.25	657	1365	146	642	123	265	8.47	106	14.55	72.7	12.2	31.3	3.89	21.9	3.25	4.6
59.06	63.98	HC22-4593	3224.22	2800.5	423.72	892.95	655	1320	138.5	580	107	207	8.45	85	11.35	56.1	9.32	23.5	3	17.5	2.5	3.1
63.98	68.90	HC22-4594	3409.12	2971.5	437.62	942.5	698	1400	147	615	111.5	213	8.39	88.6	11.8	57.2	9.68	24.8	3.13	18.45	2.57	4.2
68.90	73.82	HC22-4595	3353.01	2931.5	421.51	930.7	693	1375	145.5	610	108	204	8.32	86.2	11.4	55.8	9.15	23.4	3.04	17.5	2.7	2.8
73.82	78.74	HC22-4596	3337.17	2924.5	412.67	920.85	689	1380	144	605	106.5	201	8.51	83.4	11.15	54.2	8.9	22.9	2.88	17.15	2.58	2.9
78.74	83.66	HC22-4597	3491.65	3055.5	436.15	964.85	724	1435	151	634	111.5	213	8.86	87.8	11.45	56.9	9.6	24.8	3.05	18	2.69	3
83.66	88.58	HC22-4598	3325.47	2890	435.47	918.8	680	1360	143	602	105	214	8.8	85.6	11.5	57.3	9.32	24.7	3.09	18.4	2.76	4.2
88.58	93.50	HC22-4599	4266.62	3739.5	527.12	1188.75	884	1750	185	783	137.5	259	9.21	105.5	14.05	69.2	11.55	29.4	3.82	22.2	3.19	5
93.50	98.43	HC22-4600	3586.54	3151	435.54	981.7	757	1480	154.5	647	112.5	212	8.75	88	11.7	56	9.51	24.6	3.19	18.9	2.89	3.1
98.43	103.35	HC22-4601	2974.99	2632.7	342.29	808.96	631	1245	129	536	91.7	167.5	8.6	69.3	9.06	43.2	7.26	18.8	2.47	14	2.1	2.4
103.35	108.27	HC22-4602	3594.46	3182	412.46	983.1	763	1500	157	651	111	201	8.98	84.4	11.2	52.9	8.86	22.4	2.85	17.35	2.52	3.7
108.27	113.19	HC22-4603	3167.84	2790	377.84	861.9	672	1315	137	569	97	183	8.83	76.9	10.2	48.7	8.15	21.4	2.63	15.7	2.33	2.6
113.19	118.11	HC22-4604	3225.73	2839	386.73	875.4	678	1345	138	577	101	190.5	9.42	76.2	10.2	49.2	8.39	21.8	2.75	16.05	2.22	2.9
118.11	123.03	HC22-4605	3394.93	2996.5	398.43	917.7	719	1420	145.5	609	103	199.5	8.83	77.8	10.3	49.9	8.47	21.7	2.84	16.6	2.49	3.6
123.03	127.95	HC22-4606	3280.46	2914.2	366.26	887.35	708	1375	141.5	591	98.7	180.5	9.11	72.4	9.55	46.6	7.74	19.95	2.61	15.5	2.3	3.1
127.95	132.87	HC22-4607	3124.8	2779.4	345.4	844.59	674	1315	135	561	94.4	165.5	9.05	71.3	9.09	45.1	7.45	19.5	2.4	13.95	2.06	3.4
132.87	137.80	HC22-4608	3717.94	3299.5	418.44	1009.25	789	1565	160.5	672	113	204	9.54	85.1	10.95	52.8	9.14	23.5	3	17.85	2.56	3.8
137.80	142.72	HC22-4610	3174.07	2812	362.07	856.78	675	1335	137.5	570	94.5	180.5	9.15	70.4	9.28	45.5	7.65	20.1	2.47	14.85	2.17	2.6

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM023	4,634,562.95	475,250.25	5,768.65	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-4611	3383.62	3025	358.62	921.86	723	1435	149	616	102	173.5	9.19	74.1	9.56	45.3	7.65	19.65	2.5	14.9	2.27	2.3
147.64	152.56	HC22-4612	3180.05	2847.8	332.25	861.45	683	1355	139	576	94.8	159.5	9.23	68.6	8.65	43	6.96	18.35	2.3	13.7	1.96	2
152.56	157.48	HC22-4613	3021.81	2707.8	314.01	811.94	653	1290	132	545	87.8	153.5	9.08	64.6	8.14	39	6.57	16.7	2.16	12.35	1.91	2.8
157.48	162.40	HC22-4614	3254.41	2920	334.41	884.31	702	1385	142	593	98	159	9.95	70.6	9.01	42.3	7.05	18.3	2.31	13.85	2.04	2.7
162.40	167.32	HC22-4615	3270.95	2953.9	317.05	880.58	718	1405	143.5	592	95.4	147.5	9.98	68.7	8.78	40.9	6.66	17.2	2.15	13.2	1.98	3
167.32	172.24	HC22-4616	3193.5	2871.8	321.7	892.83	663	1365	153	591	99.8	154	9.44	67	8.53	40.5	7.03	17.45	2.2	13.35	2.2	2.8
172.24	177.17	HC22-4617	3283.72	2938.5	345.22	922.38	677	1390	158	611	102.5	170.5	9.3	68.3	8.78	42.1	7.65	18.9	2.4	14.9	2.39	2.9
177.17	182.09	HC22-4618	3391.47	3046.9	344.57	940.07	708	1450	162	627	99.9	168.5	9.5	70	8.77	42.4	7.59	18.5	2.45	14.45	2.41	3.6
182.09	187.01	HC22-4619	3229.34	2902.7	326.64	895.13	681	1375	153	595	98.7	160.5	9.17	65.8	8.43	40	7.09	17.6	2.25	13.55	2.25	3.7
187.01	191.93	HC22-4620	3503.56	3169	334.56	973	740	1505	169.5	650	104.5	163	9.77	70	8.6	40.4	7.23	17.2	2.28	13.8	2.28	5
191.93	196.85	HC22-4621	3778.46	3403	375.46	1040.29	798	1620	180.5	693	111.5	184.5	11.4	74.6	9.69	45.6	8.09	20.4	2.64	16.05	2.49	3.5
196.85	201.77	HC22-4622	3292.04	2954.5	337.54	911.05	688	1405	158.5	605	98	167	10.25	66.5	8.55	41	7.29	18.1	2.23	14.2	2.42	4.3
201.77	206.69	HC22-4623	3154.74	2854.8	299.94	872.24	667	1360	150.5	584	93.3	145.5	9.86	61.2	7.74	36.7	6.67	15.85	2.1	12.35	1.97	4.9
206.69	211.61	HC22-4624	3173.63	2864.7	308.93	880.42	674	1355	152.5	589	94.2	152	10.35	63.1	7.82	36.9	6.62	16.05	2.04	12.15	1.9	4.6
211.61	216.54	HC22-4625	2809.46	2523.8	285.66	770.97	588	1205	134	515	81.8	143	9.28	53.2	6.77	33.4	6.16	15.9	2.15	13.55	2.25	4.3
216.54	221.46	HC22-4626	2695.16	2422.6	272.56	729	572	1160	126.5	489	75.1	139.5	8.67	49.3	6.4	32	5.99	14.75	1.94	12.05	1.96	5.8
221.46	226.38	HC22-4627	2719.48	2446.9	272.58	737.42	577	1170	128.5	495	76.4	139.5	9.09	50.2	6.32	31.2	5.97	14.85	2	11.65	1.8	4.5
226.38	231.30	HC22-4628	2687.2	2393.2	294	709.5	573	1150	126	473	71.2	158.5	9.01	48.3	6.4	32.9	6.21	16	2.05	12.65	1.98	4.8
231.30	236.22	HC22-4630	2984.19	2692.9	291.29	816.11	642	1275	141.5	549	85.4	148.5	9.68	56.1	6.91	33.3	6.14	15.25	2.01	11.65	1.75	5.4
236.22	241.14	HC22-4631	2586.27	2323.9	262.37	695.43	550	1115	122.5	465	71.4	135.5	9	46.2	6.03	30.5	5.44	14.15	1.93	11.75	1.87	5.4
241.14	246.06	HC22-4632	2730.5	2445.8	284.7	746.49	579	1160	128.5	502	76.3	148	8.95	50.6	6.59	33.1	6.06	15.4	2.03	12.15	1.82	4.7
246.06	250.98	HC22-4633	2877.44	2575.5	301.94	781.39	616	1220	136	520	83.5	155	9.59	54.4	6.89	35	6.5	16.65	2.18	13.65	2.08	4.8
250.98	255.91	HC22-4634	2893.86	2603	290.86	777.27	616	1250	136.5	522	78.5	149	9.47	53.1	6.67	33.6	6.25	15.65	2.15	13	1.97	5.1
255.91	260.83	HC22-4635	2785.16	2517.8	267.36	748.77	601	1205	132.5	504	75.3	136	9.46	49.1	6.37	30.6	5.69	14.25	1.9	12.1	1.89	6.2
260.83	265.75	HC22-4636	2743.17	2486	257.17	739.36	593	1190	130.5	496	76.5	128.5	9.35	48.2	6.16	30.2	5.53	14	1.84	11.55	1.84	5
265.75	270.67	HC22-4637	2604.11	2354.5	249.61	704.38	554	1130	124.5	474	72	128.5	8.95	45.3	5.68	28.2	5.33	13.35	1.78	10.8	1.72	5.4
270.67	275.59	HC22-4638	2790.01	2518	272.01	751.92	603	1200	133	505	77	139.5	9.57	49.4	6.12	30.8	5.62	14.95	2.01	12.1	1.94	6.1
275.59	280.51	HC22-4639	2520.47	2249.1	271.37	684.92	527	1075	119	457	71.1	140	9.29	48	6.32	31.5	5.77	14.55	2	12.1	1.84	6.2
280.51	285.43	HC22-4640	2743.91	2479.6	264.31	738.71	588	1190	130.5	495	76.1	134.5	9.25	48	6.21	30.9	5.52	14.55	1.95	11.55	1.88	5.1

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM023	4,634,562.95	475,250.25	5,768.65	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-4641	2789.12	2530.1	259.02	748.69	607	1210	133	504	76.1	132.5	9.23	47.5	6.09	29.5	5.48	13.65	1.82	11.45	1.8	4.5
290.35	295.28	HC22-4642	2923.63	2643.7	279.93	790.59	642	1250	137	535	79.7	143.5	10.05	50	6.59	32.3	5.8	15.4	1.97	12.45	1.87	5.8
295.28	300.20	HC22-4643	2928.03	2655.4	272.63	792.68	637	1265	137	538	78.4	137	9.8	50	6.68	32.6	5.94	14.7	1.95	12.1	1.86	5.4
300.20	305.12	HC22-4644	3086.95	2807.5	279.45	835.15	687	1325	146	567	82.5	140.5	9.81	52.3	6.85	32.8	5.94	15.2	1.93	12.3	1.82	5.4
305.12	310.04	HC22-4645	3044.57	2763.6	280.97	824.98	674	1305	141.5	560	83.1	141	10	52.2	6.88	33.5	6.08	15.15	1.99	12.3	1.87	5.1
310.04	314.96	HC22-4646	2892.62	2614.3	278.32	792.41	632	1230	136	534	82.3	139.5	9.91	51.7	6.81	33.3	5.95	15	1.94	12.35	1.86	5.2
314.96	319.88	HC22-4647	2921.46	2629.1	292.36	802.22	629	1240	135.5	543	81.6	147	10.05	53.8	7.42	34.7	6.42	15.95	2.1	13	1.92	6.8
319.88	324.80	HC22-4648	3254.27	2950.3	303.97	897.49	707	1390	153	610	90.3	152.5	10.15	57.3	7.39	36.8	6.48	16.25	2.13	12.95	2.02	4.5
324.80	329.72	HC22-4649	3172.17	2872.3	299.87	872.03	688	1355	150.5	592	86.8	150	10.15	57.2	7.33	35.4	6.39	16.35	2.09	12.95	2.01	4.9
329.72	334.65	HC22-4651	2505.32	2269.6	235.72	686.17	537	1080	119.5	464	69.1	114	9.72	47.3	5.67	27.9	5.06	12.75	1.65	10.2	1.47	2.1
334.65	339.57	HC22-4652	2867.23	2591.1	276.13	786.03	610	1235	135.5	529	81.6	135	9.73	55.1	6.83	33.1	5.97	14.85	2	11.75	1.8	3.9
339.57	344.49	HC22-4653	2985.56	2689.9	295.66	822.67	631	1280	142	552	84.9	142.5	9.97	58.8	7.17	36.6	6.55	16.5	2.24	13.3	2.03	4.9
344.49	349.41	HC22-4654	2930.55	2636.5	294.05	802.44	621	1255	137.5	539	84	144.5	9.86	57.9	7.14	34.8	6.39	16.05	2.19	13.3	1.92	4.3
349.41	354.33	HC22-4655	2911.22	2624.3	286.92	795.29	625	1245	137	535	82.3	141	9.71	56.6	6.89	34.1	6.11	15.65	2.05	12.95	1.86	4.3
354.33	359.25	HC22-4656	3074.69	2774.3	300.39	841.21	652	1325	146.5	565	85.8	144.5	10.45	60.3	7.41	36.5	6.66	16.7	2.16	13.6	2.11	5.1
359.25	364.17	HC22-4657	3118.65	2837.2	281.45	851.24	677	1350	148	576	86.2	136.5	10.15	56.7	7.04	34	6.13	15.1	2	11.95	1.88	3.8
364.17	369.09	HC22-4658	2843.55	2561.4	282.15	759.55	644	1200	131.5	506	79.9	135.5	10.35	56.7	7.15	35	5.98	15.05	1.94	12.5	1.98	5.4
369.09	374.02	HC22-4659	2944.52	2647.1	297.42	789.74	657	1245	137.5	525	82.6	143.5	10.1	59.5	7.44	37.2	6.29	16.1	2.06	13.15	2.08	6
374.02	378.94	HC22-4660	3151.58	2845.8	305.78	863.1	682	1345	150	582	86.8	149.5	10.45	60.5	7.3	37	6.73	16.65	2.24	13.45	1.96	4.9
378.94	383.86	HC22-4661	3026.88	2748.2	278.68	828.65	650	1310	145	561	82.2	134.5	9.44	57.2	6.85	33.6	5.98	14.95	1.99	12.35	1.82	4.8
383.86	388.78	HC22-4662	3061.99	2785.8	276.19	833.99	667	1325	146	564	83.8	134	9.57	55.5	6.69	33.5	5.91	15.1	1.97	12.05	1.9	3.8
388.78	393.70	HC22-4663	3268.67	2964.4	304.27	894.62	704	1410	156	604	90.4	149	10.65	60.4	7.42	36.8	6.5	16.25	2.09	13.15	2.01	4.5
393.70	398.62	HC22-4664	3091.77	2790.7	301.07	853.56	651	1330	148	575	86.7	148	10.1	59	7.26	36.6	6.53	16.05	2.18	13.45	1.9	5.1
398.62	403.54	HC22-4665	2813.4	2532.1	281.3	772.84	600	1200	134	519	79.1	137	9.72	55.5	6.64	34.1	6.13	15.75	2.07	12.45	1.94	4.7
403.54	408.46	HC22-4666	3030.73	2734.4	296.33	830.88	651	1295	144.5	560	83.9	146.5	9.86	57.4	7.18	35.3	6.39	16.25	2.13	13.35	1.97	4
408.46	413.39	HC22-4667	3179.58	2854.6	324.98	877.8	678	1345	149.5	593	89.1	160.5	10	63.4	7.7	38.5	7.07	18.35	2.43	14.9	2.13	4.1
413.39	418.31	HC22-4668	3589.09	3243	346.09	987.95	755	1550	171.5	665	101.5	170.5	10.05	68.4	8.55	41.4	7.65	19.1	2.53	15.5	2.41	4.9
418.31	423.23	HC22-4670	2906.95	2616.8	290.15	800.62	618	1240	138.5	538	82.3	142	10.3	56.7	7.02	34.8	6.27	15.85	2.16	13.05	2	4.7
423.23	428.15	HC22-4671	3033.44	2748.4	285.04	833.63	641	1315	145	563	84.4	139.5	9.79	56.2	6.83	34.4	6.29	15.4	2.15	12.55	1.93	5.4

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM023	4,634,562.95	475,250.25	5,768.65	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-4672	3125.57	2821.2	304.37	862.53	668	1335	148.5	582	87.7	148.5	9.97	59.8	7.33	37	6.62	16.75	2.18	14.1	2.12	3.7
433.07	437.99	HC22-4673	3132.15	2824.5	307.65	864.99	669	1335	148.5	584	88	152	9.8	60.4	7.39	37.1	6.71	16.5	2.24	13.45	2.06	4.7
437.99	442.91	HC22-4674	2835.78	2563.4	272.38	776.43	607	1220	134.5	523	78.9	131.5	9.94	54.6	6.73	33.3	5.89	14.65	1.96	12.05	1.76	1.9
442.91	447.83	HC22-4675	3098.29	2789.3	308.99	852.28	652	1330	145.5	573	88.8	150	10.05	61.6	7.58	37.4	6.88	17.15	2.2	14	2.13	6.2
447.83	452.76	HC22-4676	3294.65	2970.8	323.85	911.56	696	1410	155.5	616	93.3	158.5	9.8	65	7.86	38.9	7.08	17.85	2.35	14.4	2.11	5.7
452.76	457.68	HC22-4677	3145.49	2844.2	301.29	858.29	674	1355	148.5	578	88.7	147	9.74	60.1	7.29	35.8	6.65	16.85	2.13	13.65	2.08	5.2
457.68	462.60	HC22-4678	3073.62	2773.2	300.42	843.17	644	1330	145.5	567	86.7	146.5	10.1	59	7.17	36.8	6.61	16.55	2.18	13.55	1.96	4.1
462.60	467.52	HC22-4679	2965.06	2676.9	288.16	816.25	628	1275	140.5	549	84.4	139	9.51	58	7.05	35.3	6.3	15.6	2.14	13.25	2.01	3.5
467.52	472.44	HC22-4680	3025.19	2735.6	289.59	835.53	637	1305	145	564	84.6	141.5	9.94	57.4	7.03	34.9	6.19	15.85	2.12	12.7	1.96	4.8
472.44	477.36	HC22-4681	3087.5	2785.8	301.7	851.54	648	1330	147.5	573	87.3	145	9.93	61.9	7.34	36.4	6.73	16.6	2.19	13.55	2.06	3.6
477.36	482.28	HC22-4682	3280.39	2962.7	317.69	908.49	685	1415	156.5	614	92.2	156	9.88	63.8	7.69	38.1	6.93	16.9	2.23	14.05	2.11	5.3
482.28	487.20	HC22-4683	3215.65	2904.6	311.05	884.25	675	1390	153	595	91.6	153	9.83	61.8	7.55	37.1	6.72	16.6	2.24	14.15	2.06	4.7
487.20	492.13	HC22-4684	3478.84	3148.1	330.74	958.89	737	1500	166.5	646	98.6	162	9.81	66.8	7.99	39.8	7.01	18	2.43	14.7	2.2	5.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM024	*4,634,971.49*	*474,663.18*	*5,929.40*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-4685	2168.31	1918.2	250.11	602.79	462	888	104.5	402	61.7	128.5	6.8	44.1	5.49	29.1	5.43	14.75	1.98	12.2	1.76	3.1
4.92	9.84	HC22-4686	3027.87	2693.7	334.17	820.97	639	1280	142	549	83.7	171	9.35	59.2	7.47	38.8	7.31	19.55	2.59	16.45	2.45	1.7
9.84	14.76	HC22-4687	3080.1	2737.2	342.9	834.86	671	1280	146.5	554	85.7	175	9.06	61.5	7.86	40.8	7.2	19.75	2.68	16.45	2.6	2.4
14.76	19.69	HC22-4688	2985.34	2647.7	337.64	810.6	645	1240	141.5	536	85.2	173.5	8.96	59.6	7.8	40.1	7.08	19.4	2.53	16.15	2.52	2
19.69	24.61	HC22-4690	3079.26	2728.4	350.86	836.69	666	1275	145.5	553	88.9	182.5	8.84	61.2	7.99	41.3	7.53	19.55	2.67	16.65	2.63	2.3
24.61	29.53	HC22-4691	2940.12	2603.7	336.42	798.25	628	1225	140	526	84.7	173.5	8.56	59.2	7.65	39.9	7.14	19.25	2.44	16.15	2.63	2.2
29.53	34.45	HC22-4692	3000.74	2652.3	348.44	821.66	640	1240	143	543	86.3	180.5	8.82	60.8	8.06	41.3	7.33	20.1	2.58	16.35	2.6	3.4
34.45	39.37	HC22-4693	3084.92	2725	359.92	847.69	653	1275	147.5	560	89.5	186.5	8.78	63	8.19	42.5	7.6	20.3	2.64	17.7	2.71	3.3
39.37	44.29	HC22-4694	2434.39	2138.2	296.19	665.51	509	1005	115.5	438	70.7	155	7.63	50.3	6.61	34.7	6.22	16.85	2.22	14.45	2.21	2
44.29	49.21	HC22-4695	3052.1	2696.4	355.7	830.35	656	1260	144	549	87.4	185	9.49	61.4	8.15	41.8	7.48	19.95	2.63	17.25	2.55	1.6
49.21	54.13	HC22-4696	2945.1	2596.4	348.7	808.85	626	1210	139.5	535	85.9	180	9.14	61	7.95	40.5	7.31	20.3	2.68	17.35	2.47	3
54.13	59.06	HC22-4697	2762.18	2441.6	320.58	747.23	595	1145	130.5	494	77.1	165.5	8.91	55.1	7.23	38.4	6.8	18.65	2.42	15.25	2.32	2.8
59.06	63.98	HC22-4698	2840.02	2506.7	333.32	769.47	613	1170	134.5	509	80.2	174	9.24	57.6	7.27	38.5	6.86	18.75	2.5	16.15	2.45	3.4
63.98	68.90	HC22-4699	2912.75	2584	328.75	792.2	643	1195	135.5	529	81.5	171	9.2	57	7.5	38.7	7.1	18.25	2.47	15.15	2.38	3.8
68.90	73.82	HC22-4700	2987.87	2654.6	333.27	814.64	657	1230	139	545	83.6	172	9.07	58.8	7.64	39.4	7.36	18.95	2.4	15.3	2.35	3.7
73.82	78.74	HC22-4701	3153.92	2800.8	353.12	854.8	686	1310	151	564	89.8	183	9.72	61.4	7.9	42.1	7.43	19.9	2.69	16.55	2.43	2.1
78.74	83.66	HC22-4702	2917.96	2587.3	330.66	795.08	629	1210	138.5	526	83.8	171	9.23	58	7.38	39.4	7.09	18.35	2.43	15.35	2.43	2.1
83.66	88.58	HC22-4703	3024.08	2683.6	340.48	822.09	655	1255	144.5	544	85.1	176	9.43	59.4	7.89	40.6	7.09	19.15	2.48	16.05	2.39	1.8
88.58	93.50	HC22-4704	2853.74	2519.2	334.54	778.57	618	1170	135.5	513	82.7	171.5	9.39	59.5	7.87	39.5	7.11	19	2.5	15.75	2.42	2.2
93.50	98.43	HC22-4705	3085.26	2734.1	351.16	834.01	670	1280	146.5	550	87.6	180.5	9.5	62.8	8.11	41.8	7.35	19.85	2.6	16.1	2.55	2.5
98.43	103.35	HC22-4706	3216.22	2858.6	357.62	874.85	700	1335	154	578	91.6	182	9.98	64.4	8.35	42.9	7.42	20.2	2.64	17.1	2.63	2.6
103.35	108.27	HC22-4707	3397.35	3006	391.35	937	736	1390	163.5	618	98.5	201	10.05	68.8	9.1	47.9	8.28	22.2	2.84	18.4	2.78	2.4
108.27	113.19	HC22-4708	2996.12	2649.6	346.52	811.64	642	1245	143	533	86.6	178.5	10.05	61	7.94	41.1	7.21	19.3	2.52	16.45	2.45	3.2
113.19	118.11	HC22-4709	3137.65	2794.4	343.25	852.82	691	1300	150.5	564	88.9	173.5	9.73	63.2	8.02	41.4	7.18	19.2	2.49	16.1	2.43	2.4
118.11	123.03	HC22-4711	3176.51	2836.7	339.81	862.19	698	1325	152.5	571	90.2	170.5	10.05	64.2	7.99	40.5	7.21	18.35	2.47	16	2.54	2.5
123.03	127.95	HC22-4712	3181.14	2845.6	335.54	866.34	697	1330	152.5	576	90.1	169	10.2	62.5	7.94	39.8	6.9	18.5	2.43	15.85	2.42	3.5
127.95	132.87	HC22-4713	3393.12	3027	366.12	912.01	756	1410	160	604	97	187	10.2	66.9	8.41	42.6	7.45	20.5	2.74	17.65	2.67	2.8
132.87	137.80	HC22-4714	3450.54	3113.2	337.34	932.16	784	1445	166	623	95.2	169	10.5	64.5	8.16	39.8	7.09	17.9	2.41	15.55	2.43	1.8
137.80	142.72	HC22-4715	3213.57	2893.4	320.17	874.19	705	1360	155.5	584	88.9	158.5	10.35	61.7	7.59	38.2	6.56	17.8	2.31	14.8	2.36	2.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM024	4,634,971.49	474,663.18	5,929.40	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-4716	3365.94	3018.3	347.64	913.35	739	1415	162.5	608	93.8	175.5	10.4	65.5	8.05	41	7.11	18.8	2.57	16.25	2.46	3
147.64	152.56	HC22-4717	3224.93	2892.8	332.13	880.86	704	1355	154	588	91.8	167.5	10.45	62.6	7.66	39.4	6.81	17.6	2.4	15.35	2.36	1.4
152.56	157.48	HC22-4718	3212	2868.5	343.5	878.34	704	1335	153.5	586	90	174	10.1	64.4	7.94	40.9	7.17	18.15	2.45	15.9	2.49	3.5
157.48	162.40	HC22-4719	3228.42	2879.9	348.52	876.56	707	1345	153.5	582	92.4	177	10.3	64.3	8.16	40.5	7.29	19.4	2.5	16.5	2.57	3.6
162.40	167.32	HC22-4720	3318.37	2988.1	330.27	899.46	746	1390	158.5	602	91.6	164	10.1	64	8.06	39.3	6.84	18.05	2.27	15.25	2.4	3.2
167.32	172.24	HC22-4721	3308.15	2967.9	340.25	902.88	724	1390	159.5	601	93.4	172	9.91	63.8	8.08	40.9	7.05	18.75	2.33	15.15	2.28	2.5
172.24	177.17	HC22-4722	3232.84	2897.6	335.24	881.68	715	1350	155	586	91.6	166	9.99	64.9	7.98	41.1	6.97	18.75	2.28	14.9	2.37	2.7
177.17	182.09	HC22-4723	2743.51	2473.6	269.91	744.41	592	1175	136	492	78.6	137.5	8.62	48.9	6.31	31.5	5.62	14.6	2.09	12.8	1.97	3.7
182.09	187.01	HC22-4724	3252.23	2942.6	309.63	883.7	708	1395	162	585	92.6	157	8.91	56.9	7.2	36.9	6.5	16.45	2.41	15	2.36	3.3
187.01	191.93	HC22-4725	3585.17	3259.6	325.57	970.39	780	1555	180	645	99.6	164.5	9.15	61.9	7.89	37.9	6.93	17	2.47	15.45	2.38	4.3
191.93	196.85	HC22-4726	3493.72	3178.8	314.92	955.47	767	1500	176	638	97.8	159.5	9.23	60	7.37	36.3	6.52	16.6	2.35	14.7	2.35	4.3
196.85	201.77	HC22-4727	3674.31	3341	333.31	999.41	794	1595	184	666	102	167.5	9.57	63.2	7.91	39.5	6.94	17.8	2.48	15.95	2.46	4.3
201.77	206.69	HC22-4728	3629.9	3322	307.9	990.06	795	1580	183.5	662	101.5	153	9.12	60.9	7.36	35.7	6.27	16.2	2.36	14.7	2.29	5.2
206.69	211.61	HC22-4730	3770.69	3452	318.69	1031.31	824	1640	192.5	692	103.5	161	9.79	60.8	7.41	35.9	6.45	16.6	2.42	15.85	2.47	4.4
211.61	216.54	HC22-4731	3660.28	3337	323.28	999.45	782	1600	185.5	667	102.5	163.5	9.37	61	7.45	37	6.72	17.2	2.45	16.1	2.49	4.4
216.54	221.46	HC22-4732	3322.78	3022.9	299.88	912.41	716	1435	167.5	610	94.4	152	10.3	56	6.81	33.7	6.11	15.85	2.22	14.6	2.29	4.7
221.46	226.38	HC22-4733	4235.2	3875.5	359.7	1160.87	930	1835	215	778	117.5	179	11.2	69.8	8.37	42	7.34	18.95	2.67	17.65	2.72	6.2
226.38	231.30	HC22-4734	7758.7	7158	600.7	2204.35	1670	3370	409	1495	214	294	13	125.5	14.85	71.5	12.5	31.3	4.32	29.1	4.63	8.2
231.30	236.22	HC22-4735	6340.07	5844	496.07	1795.55	1360	2760	337	1210	177	242	12.05	103.5	12.35	59.2	10.2	25.7	3.66	23.6	3.81	8
236.22	241.14	HC22-4736	3730.58	3421.5	309.08	1011.94	817	1635	189	680	100.5	155	10.65	59.1	7.14	35.3	6.27	15.95	2.34	15.05	2.28	4
241.14	246.06	HC22-4737	6199.59	5748	451.59	1717.4	1335	2760	326	1160	167	221	11.6	93.5	11.2	53.2	9.25	23.5	3.29	21.6	3.45	6.9
246.06	250.98	HC22-4738	6362.14	5881.5	480.64	1788.3	1370	2790	339	1210	172.5	239	11.55	97	11.3	55.5	9.72	25.1	3.6	24.1	3.77	7.3
250.98	255.91	HC22-4739	4638.09	4264	374.09	1265.94	1010	2040	242	846	126	186.5	10.85	72.7	8.74	43.2	7.63	20.1	2.77	18.55	3.05	6.8
255.91	260.83	HC22-4740	4539.52	4147	392.52	1226.25	1000	1975	228	820	124	199	11.25	73.3	9.25	45	8.08	21.1	2.93	19.6	3.01	6.1
260.83	265.75	HC22-4741	3698.22	3392.5	305.72	1012.07	807	1615	188	681	101.5	154.5	11.2	56.7	7.07	34.5	6.16	16	2.27	15	2.32	5.1
265.75	270.67	HC22-4742	3663.18	3338.5	324.68	1002.91	795	1585	185.5	672	101	165	11.05	60	7.31	37.1	6.75	17.1	2.41	15.5	2.46	5.3
270.67	275.59	HC22-4743	3456.6	3160	296.6	937.17	753	1510	174	630	93	150	10.65	54.9	6.77	33.4	6.1	15.55	2.2	14.7	2.33	5.1
275.59	280.51	HC22-4744	3205.54	2933	272.54	870.36	709	1390	163	585	86	138.5	9.61	49.9	6.06	30.3	5.58	14.6	2.04	13.8	2.15	4.6
280.51	285.43	HC22-4745	3476.31	3170.8	305.51	951.69	756	1505	175.5	639	95.3	154.5	10.45	56.1	6.99	34.9	6.3	16.6	2.27	15.05	2.35	4.7

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM024	*4,634,971.49*	*474,663.18*	*5,929.40*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-4746	3554.74	3254.1	300.64	968.71	787	1540	181	649	97.1	151	10.45	56.1	6.91	34.7	6.15	15.95	2.25	14.85	2.28	4.5
290.35	295.28	HC22-4747	3986.77	3656	330.77	1089.09	872	1740	203	733	108	167	11.05	62.1	7.69	37.4	6.74	17.8	2.4	16.05	2.54	4.9
295.28	300.20	HC22-4748	3913.75	3581	332.75	1071.64	850	1705	197.5	722	106.5	167.5	11.1	62.5	7.64	38	6.82	17.6	2.51	16.45	2.63	6
300.20	305.12	HC22-4750	3679.87	3378.4	301.47	1001.34	803	1615	187.5	673	99.9	152	10.6	57	6.94	34	6.08	15.65	2.23	14.7	2.27	4.6
305.12	310.04	HC22-4751	3757.92	3438.5	319.42	1021.85	815	1645	190	687	101.5	161	11.15	59.7	7.35	36	6.48	17.15	2.38	15.7	2.51	4
310.04	314.96	HC22-4752	3670.72	3357.7	313.02	996.76	804	1600	185.5	670	98.2	157.5	10.85	58.5	7.26	35.8	6.37	16.15	2.45	15.6	2.54	5.9
314.96	319.88	HC22-4753	3715.89	3401	314.89	1013.88	800	1630	187.5	681	102.5	158.5	10.75	58.9	7.18	35.7	6.44	16.75	2.41	15.8	2.46	4.5
319.88	324.80	HC22-4754	3349.49	3069.5	279.99	913.06	734	1460	170.5	616	89	141.5	10.05	52.5	6.36	31.2	5.63	14.6	2.07	14	2.08	4.1
324.80	329.72	HC22-4755	3373.24	3089.1	284.14	916.55	741	1470	171	617	90.1	142.5	10.5	52.9	6.45	32	5.79	15.25	2.18	14.4	2.17	4.9
329.72	334.65	HC22-4756	3674.95	3362.3	312.65	995.39	804	1605	187.5	668	97.8	158	11.05	58	7.19	34.9	6.26	16.65	2.36	15.7	2.54	4.7
334.65	339.57	HC22-4757	3512.24	3199.9	312.34	960.54	778	1505	177	648	91.9	157.5	10.6	58.6	7.44	36.2	6.52	16.45	2.24	14.5	2.29	5.1
339.57	344.49	HC22-4758	3070.84	2784.3	286.54	833.96	680	1310	152	560	82.3	144	9.81	53.6	6.66	33	5.86	15.25	2.19	14.05	2.12	4.8
344.49	349.41	HC22-4759	3342.42	3041.8	300.62	916.66	737	1430	168	618	88.8	150	10.25	57.6	7.06	34.8	6.19	15.8	2.18	14.55	2.19	4.8
349.41	354.33	HC22-4760	3679.4	3344.1	335.3	1011.81	803	1575	186	681	99.1	169	11.2	63.9	7.91	37.8	7.03	17.4	2.43	16.2	2.43	5.8
354.33	359.25	HC22-4761	3470.51	3169.1	301.41	944.71	771	1495	174	638	91.1	151	11.1	58.1	7.11	34.5	6.14	15.15	2.07	14.15	2.09	5.7
359.25	364.17	HC22-4762	3422.29	3118.3	303.99	932.97	757	1470	172.5	629	89.8	152	11.2	58.6	7.17	34.5	6.2	15.6	2.18	14.35	2.19	5.3
364.17	369.09	HC22-4763	3418.25	3124.4	293.85	932.47	757	1475	172.5	629	90.9	147.5	11.25	56.1	6.87	33.2	5.96	15	2.11	13.8	2.06	5.2
369.09	374.02	HC22-4764	3442.17	3129.8	312.37	939.01	759	1475	172.5	632	91.3	157	11.35	58.6	7.31	35.9	6.38	16.25	2.33	15	2.25	5.2
374.02	378.94	HC22-4765	3274.59	2968.8	305.79	897.86	722	1390	164	605	87.8	156	11.15	56.5	6.96	34.1	6.3	16	2.21	14.35	2.22	4.6
378.94	383.86	HC22-4766	3496.05	3166.8	329.25	957.62	754	1500	175.5	645	92.3	169	10.7	60.2	7.52	37.3	6.78	17.05	2.44	15.85	2.41	6.2
383.86	388.78	HC22-4767	3080.54	2788.9	291.64	842.09	676	1310	154.5	567	81.4	150	10.7	52.1	6.59	32.6	6.15	15.25	2.08	14	2.17	4.9
388.78	393.70	HC22-4768	2888.3	2606.9	281.4	783.56	641	1220	144	525	76.9	145	10.55	50.2	6.36	31.3	5.89	14.5	2.02	13.6	1.98	4.3
393.70	398.62	HC22-4769	2991.67	2692.3	299.37	819.83	648	1265	149.5	550	79.8	154	10.75	53.1	6.83	33.7	6.25	15.9	2.25	14.45	2.14	4.4
398.62	403.54	HC22-4771	2905.57	2626.2	279.37	791.06	638	1235	144	533	76.2	143.5	10.1	49.7	6.36	31.5	5.86	14.6	2.12	13.6	2.03	4.4
403.54	408.46	HC22-4772	3077.94	2785.4	292.54	842.61	682	1300	153.5	566	83.9	152	10.3	51.4	6.51	32.7	6.1	15.15	2.19	14.05	2.14	5.6
408.46	413.39	HC22-4773	2963.17	2668.3	294.87	809.08	639	1260	147.5	542	79.8	153	10.2	50.9	6.58	33.2	6.1	15.75	2.23	14.8	2.11	4.6
413.39	418.31	HC22-4774	3209.05	2902.8	306.25	872.94	706	1365	160.5	586	85.3	159	10.5	53.4	6.94	34.2	6.25	16.4	2.28	15.05	2.23	4.2
418.31	423.23	HC22-4775	2897.36	2608.7	288.66	793.82	633	1220	144.5	532	79.2	151	9.81	49.6	6.22	31.9	6.04	15.5	2.11	14.35	2.13	4.3
423.23	428.15	HC22-4776	3048.42	2749	299.42	830.67	668	1290	151.5	559	80.5	156	10	52.3	6.67	33	6.03	16.15	2.25	14.85	2.17	4.9

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM024	*4,634,971.49*	*474,663.18*	*5,929.40*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-4777	3199.29	2879.5	319.79	875.15	692	1355	160	586	86.5	166.5	10.65	55.3	7.05	35.6	6.65	17.25	2.45	16.05	2.29	4.3
433.07	437.99	HC22-4778	3131.12	2811.3	319.82	854.45	680	1320	154.5	572	84.8	167	10.5	54.6	7.05	36.1	6.78	17.45	2.4	15.65	2.29	5.3
437.99	442.91	HC22-4779	3067.41	2760.1	307.31	834.81	662	1305	152	559	82.1	159	10.7	53.5	6.81	34.9	6.35	16.35	2.28	15.2	2.22	6
442.91	447.83	HC22-4780	2926.63	2619.5	307.13	802.28	633	1225	146.5	536	79	161.5	10.15	52.2	6.68	34.1	6.38	16.35	2.36	15.15	2.26	5
447.83	452.76	HC22-4781	3260.75	2939.7	321.05	889.75	708	1385	163	597	86.7	167	10.55	56.3	7.15	35.9	6.67	17.2	2.44	15.55	2.29	4.6
452.76	457.68	HC22-4782	3363.27	3031	332.27	912.39	738	1425	167.5	612	88.5	174.5	10.9	56.8	7.39	37	7.03	17.55	2.49	16.25	2.36	5
457.68	462.60	HC22-4783	3093.44	2797.5	295.94	836.02	681	1320	153.5	563	80	153	10.8	51.4	6.52	33	6.2	15.75	2.16	14.95	2.16	4.8
462.60	467.52	HC22-4784	3300.92	2986.1	314.82	893.08	735	1400	164.5	600	86.6	162.5	11	55.7	6.88	35.1	6.46	16.85	2.34	15.7	2.29	5.3
467.52	472.44	HC22-4785	3362.74	3046.2	316.54	912.01	746	1430	167.5	614	88.7	165.5	11.15	55.5	6.91	34.9	6.38	16.25	2.34	15.4	2.21	5.6
472.44	477.36	HC22-4786	3116.76	2821.3	295.46	842.28	689	1330	155.5	564	82.8	152	10.95	51.7	6.68	33.3	6.02	15.8	2.22	14.6	2.19	4.6
477.36	482.28	HC22-4787	3409.8	3080.5	329.3	923.98	750	1450	170	621	89.5	172.5	10.95	57.4	7.28	36.2	6.7	17.5	2.52	15.8	2.45	5.4
482.28	487.20	HC22-4788	3055.84	2770.5	285.34	821.5	677	1310	151.5	552	80	147	11.1	50.2	6.5	31.5	5.87	15	2.09	14	2.08	4.9
487.20	492.13	HC22-4790	3018.72	2735.6	283.12	822.86	666	1285	151.5	552	81.1	143	11.25	51.4	6.46	31.8	5.94	15.1	2.03	14.1	2.04	4.3

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM025	4,634,503.85	474,783.85	5,768.65	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-4791	1633.8	1472.1	161.7	433.75	362	699	79.6	287	44.5	83.2	5.11	29.3	3.75	18.9	3.42	8.29	1.18	7.46	1.09	9.1
4.92	9.84	HC22-4792	3046.3	2752.1	294.2	832.51	671	1290	151.5	554	85.6	147.5	9.25	57.1	7.21	34.2	6.24	15.55	2.12	13.05	1.98	5.1
9.84	14.76	HC22-4793	3640.9	3287	353.9	991.03	772	1575	182.5	654	103.5	177.5	9.32	68.4	8.53	42.5	7.62	19.35	2.63	15.5	2.55	6.3
14.76	19.69	HC22-4794	3572.84	3243	329.84	974.91	766	1550	179.5	646	101.5	163.5	9.38	64.8	8.01	39.9	7.28	17.65	2.41	14.7	2.21	6
19.69	24.61	HC22-4795	4085.43	3677.5	407.93	1117.15	859	1760	204	737	117.5	207	9.32	77.5	9.75	48.9	8.94	22.1	3.07	18.3	3.05	6.5
24.61	29.53	HC22-4796	4793.73	4344	449.73	1313.45	1015	2080	251	861	137	228	9.49	88.3	10.85	53.6	9.73	23.9	3.21	19.5	3.15	9.9
29.53	34.45	HC22-4797	3939.23	3550	389.23	1081.09	826	1700	196	712	116	193.5	9.58	76.5	9.59	47.5	8.49	21.4	2.86	17.1	2.71	7.3
34.45	39.37	HC22-4798	2813.2	2550.1	263.1	764.59	604	1220	140.5	507	78.6	131	9.31	50.3	6.39	32.1	5.68	13.75	1.86	10.95	1.76	5.1
39.37	44.29	HC22-4799	3229.52	2892.6	336.92	883.2	687	1370	161	582	92.6	173.5	9.56	61.9	7.9	39.7	7.32	17.9	2.45	14.4	2.29	7
44.29	49.21	HC22-4800	2835.96	2548	287.96	767.24	607	1215	140.5	505	80.5	146	9.23	53.7	6.74	34.5	6.27	15.15	2.08	12.25	2.04	5.6
49.21	54.13	HC22-4801	2682.29	2414.6	267.69	726.18	576	1150	132.5	480	76.1	135.5	9.56	50	6.28	31.3	5.84	14	1.88	11.5	1.83	5.7
54.13	59.06	HC22-4802	2950.02	2678.4	271.62	798.3	644	1275	148	530	81.4	135.5	9.61	52.5	6.5	32.4	5.74	14.25	1.92	11.4	1.8	5.2
59.06	63.98	HC22-4803	3003.41	2707.6	295.81	809.57	645	1295	149.5	534	84.1	150	9.81	54.7	6.97	35	6.39	15.85	2.17	12.9	2.02	5.5
63.98	68.90	HC22-4804	2708.89	2412.4	296.49	735.57	578	1140	133	483	78.4	154	9.34	52.3	6.67	34.5	6.37	16	2.13	13.1	2.08	6.1
68.90	73.82	HC22-4805	2644.36	2353	291.36	714.61	554	1125	130.5	468	75.5	151.5	9.06	50.6	6.51	34.1	6.34	15.8	2.28	13.05	2.12	5.4
73.82	78.74	HC22-4806	3016.55	2729.6	286.95	808	662	1300	149.5	535	83.1	145.5	9.78	53.5	6.8	33.6	6.23	15.15	2.08	12.35	1.96	5.7
78.74	83.66	HC22-4807	2929.92	2642.8	287.12	805.44	628	1250	146.5	534	84.3	146	9.61	53.6	6.84	33.8	6.04	14.95	2.12	12.2	1.96	5.5
83.66	88.58	HC22-4808	2756.99	2484.8	272.19	750.05	594	1180	136.5	495	79.3	136	9.46	50.8	6.55	32.7	5.9	14.7	2.01	12.15	1.92	6.2
88.58	93.50	HC22-4810	3014.01	2720.5	293.51	819.08	653	1290	150	541	86.5	148	9.41	55.2	6.88	34.7	6.28	15.35	2.25	13.4	2.04	5.4
93.50	98.43	HC22-4811	2725.98	2457.1	268.88	744.29	586	1165	136	492	78.1	135.5	9.49	50.2	6.39	31.8	5.71	14	2	11.95	1.84	5.2
98.43	103.35	HC22-4812	3050.98	2742.2	308.78	835.47	646	1305	152	551	88.2	157	9.93	56.7	7.27	37	6.71	16.25	2.33	13.45	2.14	6.5
103.35	108.27	HC22-4813	2960.78	2682.9	277.88	799.14	634	1290	147	530	81.9	138.5	9.38	54.1	6.64	33.6	5.94	14.3	1.99	11.6	1.83	6
108.27	113.19	HC22-4814	2647.3	2390.8	256.5	719.49	577	1130	133	476	74.8	130.5	9.07	47.4	5.89	29.8	5.62	13.3	1.92	11.25	1.75	5.6
113.19	118.11	HC22-4815	2949.85	2658.1	291.75	796.77	628	1275	146	526	83.1	147	9.54	54.7	6.77	34.9	6.35	15.55	2.14	12.75	2.05	6.1
118.11	123.03	HC22-4816	2869.09	2574.4	294.69	775.72	620	1220	141.5	512	80.9	151.5	9.56	53.4	6.72	34.6	6.23	15.8	2.09	12.75	2.04	6.4
123.03	127.95	HC22-4817	2907.81	2622.1	285.71	788.72	624	1250	144.5	521	82.6	145	9.56	52.6	6.72	33.9	6.23	15.2	2.06	12.45	1.99	6.2
127.95	132.87	HC22-4818	2849.87	2552.4	297.47	770.2	614	1210	141	507	80.4	152.5	9.57	53.9	6.9	34.9	6.41	15.7	2.19	13.35	2.05	6.9
132.87	137.80	HC22-4819	3083.78	2767.3	316.48	833.35	659	1320	152	548	88.3	160.5	9.67	58.1	7.35	37.7	6.8	17.5	2.39	14.15	2.32	6.4
137.80	142.72	HC22-4820	2743.78	2477.6	266.18	747.23	593	1175	137	495	77.6	134	8.94	50.3	6.23	31.4	5.68	14.1	1.95	11.75	1.83	5.5

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM025	*4,634,503.85*	*474,783.85*	*5,768.65*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-4821	3377.82	3065.3	312.52	915.52	735	1460	169.5	607	93.8	155.5	9.74	61.8	7.52	37.7	6.82	16.2	2.12	12.9	2.22	6.7
147.64	152.56	HC22-4822	2945.55	2668.1	277.45	799.65	643	1265	148	531	81.1	140	9.63	52.2	6.65	32.9	6	14.35	1.98	11.9	1.84	6.4
152.56	157.48	HC22-4823	2958.85	2660.8	298.05	803.65	634	1265	148	530	83.8	152.5	9.67	54.8	7.05	34.8	6.33	15.65	2.12	13	2.13	6.5
157.48	162.40	HC22-4824	2809.21	2529.3	279.91	764.66	614	1190	139.5	506	79.8	142	9.44	52.1	6.56	32.8	6.08	14.8	2.07	12.1	1.96	5.6
162.40	167.32	HC22-4825	2501.66	2245.9	255.76	676.3	531	1075	123	446	70.9	129.5	8.23	47.4	6	30.4	5.58	13.6	1.86	11.35	1.84	5
167.32	172.24	HC22-4826	3115.05	2783.1	331.95	846.51	668	1315	155	557	88.1	171.5	9.82	60.2	7.51	38.9	7.12	17.85	2.46	14.3	2.29	6.9
172.24	177.17	HC22-4827	2968.52	2673.1	295.42	802.48	637	1275	147.5	530	83.6	151	9.64	54.1	6.68	34.7	6.2	15.65	2.1	13.2	2.15	7.4
177.17	182.09	HC22-4828	2837.01	2553.8	283.21	771.81	612	1210	142	510	79.8	144	9.02	52.7	6.61	33.4	6.11	15	2.11	12.25	2.01	6.2
182.09	187.01	HC22-4829	2789.05	2496.9	292.15	782.7	613	1145	134	524	80.9	142.5	8.62	57.9	7.5	36.3	6.3	15.95	1.98	13	2.1	7.9
187.01	191.93	HC22-4831	2539.05	2258.2	280.85	715.8	553	1030	121	479	75.2	142	8.42	52.5	6.8	33.8	5.89	15.2	2	12.2	2.04	7.2
191.93	196.85	HC22-4832	2658.84	2375.2	283.64	743.85	577	1095	125.5	502	75.7	142.5	9.13	53.7	6.95	33.7	5.99	15.4	1.96	12.25	2.06	6.8
196.85	201.77	HC22-4833	2834.91	2538.2	296.71	800.29	632	1150	136.5	537	82.7	145.5	9.04	58.3	7.59	36.5	6.42	16.05	2.03	13.15	2.13	7.3
201.77	206.69	HC22-4834	2721.35	2445.5	275.85	764.83	617	1105	130.5	515	78	133	9.24	55.5	7.23	34.1	5.92	15.2	1.88	11.85	1.93	6.7
206.69	211.61	HC22-4835	3017.05	2716.4	300.65	851.81	679	1230	145.5	574	87.9	146.5	9.74	60.3	7.61	36.8	6.42	15.95	2.09	13.1	2.14	6.6
211.61	216.54	HC22-4836	2940.15	2635.5	304.65	824.79	656	1200	140.5	554	85	151.5	8.8	59.2	7.49	37.8	6.56	15.95	2.11	13.05	2.19	5.8
216.54	221.46	HC22-4837	2710.66	2424.6	286.06	762.62	610	1095	130	510	79.6	139.5	8.61	56.6	7.32	35.7	6.05	15.85	1.97	12.4	2.06	6.1
221.46	226.38	HC22-4838	2443.52	2182	261.52	680.95	543	996	116	457	70	130	8	50.6	6.45	31.5	5.49	14.25	1.71	11.65	1.87	6.7
226.38	231.30	HC22-4839	2475.52	2200.8	274.72	700.47	541	1000	117.5	469	73.3	134	9.5	53.3	6.67	34	5.79	15.05	1.96	12.4	2.05	5.4
231.30	236.22	HC22-4840	2703.89	2414.6	289.29	762.22	609	1085	129.5	511	80.1	143.5	9.32	56	7.22	34.4	6.03	15.65	2.08	12.95	2.14	8.4
236.22	241.14	HC22-4841	2899.35	2600	299.35	806.63	647	1190	139	543	81	147.5	10.05	57.6	7.43	36.2	6.36	16.45	2.17	13.45	2.14	6.3
241.14	246.06	HC22-4842	2310.07	2072.5	237.57	644.59	513	949	110	433	67.5	116	8.75	46.1	5.89	28.2	5.07	13.05	1.74	11.05	1.72	6.2
246.06	250.98	HC22-4843	2622.19	2349	273.19	734.76	579	1075	125	494	76	133	9.74	53.2	6.86	32.9	5.67	15.05	1.98	12.75	2.04	6
250.98	255.91	HC22-4844	2775.11	2474.3	300.81	788.58	619	1110	132.5	531	81.8	151	9.8	58.5	7.38	35.9	6.38	15.65	2.02	12.2	1.98	6.3
255.91	260.83	HC22-4845	2876.48	2560.4	316.08	814.01	627	1165	138.5	545	84.9	159	9.49	61.2	7.71	37.9	6.54	16.7	2.11	13.3	2.13	9.2
260.83	265.75	HC22-4846	2882.59	2593.1	289.49	810.17	634	1190	140.5	546	82.6	143.5	9.26	56.3	7.07	34	6.05	16.25	2.06	12.9	2.1	5.1
265.75	270.67	HC22-4847	2905.34	2613.3	292.04	821.52	653	1180	141.5	556	82.8	147.5	9.56	55.8	7.02	34.2	6.2	15.2	1.97	12.5	2.09	8.5
270.67	275.59	HC22-4848	2706.85	2434.9	271.95	758.42	611	1105	129	512	77.9	133	10.05	53.7	6.72	32.8	5.7	14.3	1.86	11.9	1.92	6.6
275.59	280.51	HC22-4850	2825.58	2534.1	291.48	795.02	626	1155	137	536	80.1	144	9.73	56.8	7.22	34.7	6.06	15.8	2.12	12.95	2.1	8
280.51	285.43	HC22-4851	2642.78	2365.3	277.48	742.67	582	1080	126	502	75.3	139	9.36	54.2	6.87	32.5	5.64	14.6	1.92	11.5	1.89	5.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-OM025	*4,634,503.85*	*474,783.85*	*5,768.65*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-4852	2447.32	2192	255.32	690.81	538	1000	116.5	467	70.5	127.5	8.61	49.9	6.21	30.6	5.29	12.9	1.78	10.75	1.78	7.5
290.35	295.28	HC22-4853	3277.01	2949.3	327.71	925.39	726	1345	159	626	93.3	162	10.85	62.2	8.09	39	6.98	18.3	2.42	15.35	2.52	8.3
295.28	300.20	HC22-4854	2603.27	2328.3	274.97	739.16	574	1055	124	499	76.3	136.5	8.82	52	6.56	33.3	5.8	15.3	2.01	12.55	2.13	7.6
300.20	305.12	HC22-4855	2504.52	2220.6	283.92	714.48	543	1005	119	478	75.6	140	8.76	54.2	6.98	34.9	6.02	15.85	2.1	13.15	1.96	8.8
305.12	310.04	HC22-4856	3006.47	2682.8	323.67	861.82	659	1210	145	578	90.8	158	9.89	63.9	8.12	39.9	6.93	18	2.23	14.4	2.3	8.6
310.04	314.96	HC22-4857	2414.54	2169.2	245.34	697.15	529	980	115.5	471	73.7	114	9.13	51.5	6.35	30.6	5.18	13.85	1.79	11.2	1.74	5.1
314.96	319.88	HC22-4858	2599.57	2320.3	279.27	741.1	567	1055	124.5	497	76.8	133	9.46	56	7.2	35.6	5.97	15.4	1.95	12.6	2.09	7
319.88	324.80	HC22-4859	2682.54	2403.2	279.34	803.08	586	1055	129	549	84.2	128	10.65	62.3	6.98	33.9	5.75	15.15	2.05	12.55	2.01	8.7
324.80	329.72	HC22-4860	2802.06	2491.3	310.76	784.76	608	1145	133	523	82.3	151.5	9.05	59.8	7.86	38.6	6.92	18.1	2.27	14.4	2.26	6.5
329.72	334.65	HC22-4861	2506.08	2221	285.08	684.01	537	1040	117.5	458	68.5	149	7.69	49	6.51	33.5	6.15	15.95	2.08	13.1	2.1	6
334.65	339.57	HC22-4862	2405.23	2106.3	298.93	672.38	515	962	112	445	72.3	154.5	7.61	52	7.18	35.9	6.49	17.25	2.3	13.55	2.15	6.6
339.57	344.49	HC22-4863	2819.69	2517.9	301.79	795.86	616	1150	136	533	82.9	149	8.46	56.7	7.16	36.8	6.6	17.45	2.36	15.05	2.21	5.3
344.49	349.41	HC22-4864	3211.94	2882.7	329.24	898.97	715	1315	153.5	605	94.2	165.5	10.5	64.3	8.27	38	6.88	17.35	2.1	14.15	2.19	5.7
349.41	354.33	HC22-4865	3275.69	2966	309.69	879.46	740	1390	160	584	92	150	11.1	62.7	7.56	35.9	6.72	16.85	2.37	14.35	2.14	5.5
354.33	359.25	HC22-4866	2771.29	2495.1	276.19	745.37	620	1170	133.5	493	78.6	133	9.68	54.4	6.67	33.6	5.96	15.35	2.1	13.35	2.08	4.6
359.25	364.17	HC22-4867	2819.04	2493.2	325.84	757.55	611	1170	135.5	496	80.7	167	9.1	58.4	7.45	37.9	6.97	18.55	2.53	15.55	2.39	6.2
364.17	369.09	HC22-4868	3132.11	2799.1	333.01	839.25	686	1320	151	553	89.1	169	9.56	61.6	7.65	38.5	7.14	18.8	2.57	15.75	2.44	5.6
369.09	374.02	HC22-4870	3080.05	2757.6	322.45	828.37	684	1290	150	550	83.6	164	9.34	59.8	7.37	37.4	7.02	17.85	2.4	15	2.27	6
374.02	378.94	HC22-4871	2818.65	2542.2	276.45	752.57	623	1205	138	499	77.2	138.5	8.99	52.3	6.47	31.9	5.95	15.3	2.14	12.95	1.95	4.5
378.94	383.86	HC22-4872	2871.41	2569.2	302.21	770.3	626	1215	137.5	511	79.7	152.5	9.57	55.8	7	35.1	6.43	16.85	2.36	14.35	2.25	5.6
383.86	388.78	HC22-4873	2666.33	2412.6	253.73	708.96	594	1145	130.5	471	72.1	125.5	8.52	49.1	6.06	29.3	5.39	13.7	1.96	12.4	1.8	4
388.78	393.70	HC22-4874	2583.44	2310.5	272.94	704.9	554	1090	125.5	466	75	138	8.19	50.6	6.4	32	5.87	15.1	2.04	12.75	1.99	4.4
393.70	398.62	HC22-4875	2729.6	2468.3	261.3	729.6	610	1165	133	486	74.3	130.5	8.15	50	6.1	30.2	5.55	14.35	1.98	12.45	2.02	3.5
398.62	403.54	HC22-4876	5403.14	4876.5	526.64	1494.1	1190	2270	268	989	159.5	260	10.25	106	12.9	64.7	11.55	28.9	3.85	24.5	3.99	5.6
403.54	408.46	HC22-4877	5190.03	4700	490.03	1433.25	1140	2200	259	950	151	238	10.45	101	12.55	60.7	10.75	27.2	3.6	22.3	3.48	5.9
408.46	413.39	HC22-4878	2773.06	2509	264.06	747.71	614	1185	136	496	78	128.5	8.87	52.4	6.51	31.2	5.66	14.65	1.99	12.4	1.88	4.4
413.39	418.31	HC22-4879	2845.93	2567	278.93	767.76	624	1215	137.5	511	79.5	136.5	9.54	55.3	6.66	33.1	6	14.9	2.08	12.85	2	4.3
418.31	423.23	HC22-4880	3091.28	2776.7	314.58	842.35	683	1295	151	557	90.7	156	10.45	61.4	7.55	36.1	6.66	17.25	2.35	14.55	2.27	4.4
423.23	428.15	HC22-4881	2887.52	2606.2	281.32	780.71	630	1235	141	518	82.2	138	9.73	55.5	6.71	32.8	5.88	15.65	2.05	12.95	2.05	4.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-OM025	4,634,503.85	474,783.85	5,768.65	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-4882	2965.52	2685.1	280.42	801.94	653	1270	145.5	532	84.6	136.5	9.61	55.6	6.74	33.1	5.95	15.65	2.04	13.25	1.98	3.6
433.07	437.99	HC22-4883	2848.8	2572.3	276.5	774.98	621	1215	139.5	516	80.8	135.5	9.54	53.6	6.58	32.1	5.97	15.45	2.11	13.6	2.05	3.9
437.99	442.91	HC22-4884	3009.73	2721.9	287.83	813.82	659	1290	147	540	85.9	141	10.25	56.4	6.92	34	6.11	15.85	2.13	13.15	2.02	3.1
442.91	447.83	HC22-4885	2716.63	2468.2	248.43	730.78	602	1170	134.5	486	75.7	122	9.73	48.1	5.88	28.7	5.3	13.55	1.86	11.55	1.76	3.1
447.83	452.76	HC22-4886	3108.96	2829.5	279.46	832.81	696	1340	154	556	83.5	138	10.15	53.6	6.61	32.7	5.91	15.25	2.09	13.05	2.1	3.8
452.76	457.68	HC22-4887	2735.82	2469.2	266.62	747.2	594	1165	134.5	498	77.7	132	9.47	51.3	6.3	30.7	5.72	14.4	2	12.7	2.03	2.9
457.68	462.60	HC22-4888	3176.18	2886.5	289.68	860.99	701	1365	158	575	87.5	142.5	9.7	57.4	6.89	33.6	6.01	15.75	2.18	13.55	2.1	3.2
462.60	467.52	HC22-4889	3208.63	2915.6	293.03	878.42	708	1370	158.5	587	92.1	143.5	10.35	58.1	6.82	34	6.21	15.8	2.22	13.85	2.18	4.2
467.52	472.44	HC22-4891	2920.23	2631.8	288.43	799.32	643	1230	143.5	531	84.3	142	9.95	55.4	6.82	33.7	6.18	16.05	2.17	13.9	2.26	4.4
472.44	477.36	HC22-4892	3155.4	2862.8	292.6	852.29	696	1355	155.5	569	87.3	143.5	10	57	6.99	33.5	6.39	16.3	2.21	14.55	2.16	3.9
477.36	482.28	HC22-4893	3210.84	2918.1	292.74	866.95	712	1380	159.5	578	88.6	142.5	10.5	58	7.05	33.8	6.19	16	2.21	14.25	2.24	3.1
482.28	487.20	HC22-4894	3379.14	3066.5	312.64	919.15	756	1435	167	614	94.5	155	10.25	60.6	7.35	36.3	6.59	16.85	2.36	15.1	2.24	3
487.20	492.13	HC22-4895	3316.86	3001.1	315.76	899.36	741	1405	164	597	94.1	155.5	10.2	62.3	7.46	36.8	6.69	17.3	2.42	14.75	2.34	3.5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM005	*4,633,192.16*	*475,748.96*	*5,685.54*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
9.84	14.76	HC22-0826	888.74	757.3	131.44	242.04	175	358	39.9	157	27.4	68.7	4.71	21	2.84	14.9	2.92	7.83	1.13	6.39	1.02	8.5
14.76	19.69	HC22-0827	997.37	865.7	131.67	262.17	205	417	45.5	170	28.2	67.7	4.24	21.7	2.92	15.55	2.97	7.57	1.17	6.72	1.13	8.7
19.69	24.61	HC22-0828	890	793.7	96.3	235.56	189	382	41.3	156.5	24.9	47.7	4.43	17.2	2.21	10.65	2.1	5.56	0.73	4.89	0.83	9.1
24.61	29.53	HC22-0830	849.71	754	95.71	229.66	181.5	356	39.8	152.5	24.2	47.7	4.55	16.9	2.21	10.95	2.14	5.22	0.71	4.57	0.76	9
29.53	34.45	HC22-0831	899.16	793.3	105.86	240.43	186.5	381	40.9	158.5	26.4	53.2	4.51	17.9	2.33	12.3	2.34	6.09	0.79	5.45	0.95	10.8
34.45	39.37	HC22-0832	782.84	666.8	116.04	212.63	157.5	312	35.5	137.5	24.3	61.5	4.46	17.5	2.43	12.9	2.56	6.62	0.97	6.06	1.04	9.1
39.37	44.29	HC22-0833	3172.06	2849.7	322.36	840.06	676	1380	148.5	559	86.2	164.5	7.39	58.3	7.76	38.6	7.36	18.8	2.49	14.8	2.36	4.1
44.29	49.21	HC22-0834	1933.13	1655.3	277.83	533.58	367	794	87	346	61.3	148.5	4.76	44.6	6.28	33	6.48	16.35	2.26	13.5	2.1	13.1
49.21	54.13	HC22-0835	1215.21	1031.6	183.61	317.8	237	501	53.2	204	36.4	100	4.54	26.2	3.8	20.4	4.15	11.3	1.63	10	1.59	9.9
54.13	59.06	HC22-0836	240.85	198.48	42.37	61.04	51	91.6	10.05	38.9	6.93	23.9	1.43	5.04	0.77	4.39	0.92	2.6	0.38	2.53	0.41	30.7
59.06	63.98	HC22-0837	407.07	319.9	87.17	110.82	75.4	145	17.7	68.2	13.6	49.4	1.95	11	1.72	9.6	2	5.59	0.76	4.51	0.64	23.2
63.98	68.90	HC22-0838	279.11	208.25	70.86	79.15	42.9	95.5	11.7	47.9	10.25	41	0.91	8.56	1.38	7.92	1.71	4.31	0.63	3.82	0.62	4.3
68.90	73.82	HC22-0839	890.87	771	119.87	237.72	184	366	40.4	154	26.6	64.5	3.17	18.35	2.67	14.05	2.71	7.1	0.92	5.47	0.93	4.4
73.82	78.74	HC22-0840	3198.96	2916.6	282.36	831.34	736	1390	150	557	83.6	141.5	7.91	53.2	6.84	33.9	6.32	15.95	2.1	12.75	1.89	3.8
78.74	83.66	HC22-0841	2731.22	2472.3	258.92	701.37	618	1190	125.5	467	71.8	131.5	7.57	46.7	6.07	31	5.77	14.85	1.92	11.7	1.84	4.2
83.66	88.58	HC22-0842	1426.61	1303	123.61	342.88	334	643	64.2	230	31.8	62.4	6.83	20.9	2.78	14.1	2.63	6.97	0.9	5.26	0.84	2.9
88.58	93.50	HC22-0843	754.18	633.5	120.68	202.83	147.5	300	33.3	128.5	24.2	63.5	3.99	18.55	2.68	14.15	2.73	7.54	1.03	5.59	0.92	15.4
93.50	98.43	HC22-0844	1595.39	1350.7	244.69	432.26	305	649	70.4	277	49.3	127.5	6.19	40.1	5.66	29.9	5.82	14.75	1.94	11	1.83	6.9
98.43	103.35	HC22-0845	1474.8	1268.3	206.5	396.62	292	610	66.1	255	45.2	105	5.93	35.1	4.92	25.4	4.8	12.4	1.7	9.68	1.57	12.6
103.35	108.27	HC22-0846	1741.81	1573.4	168.41	452.3	380	766	80.8	299	47.6	81.7	5.65	32.7	4.2	20.7	3.75	9.41	1.26	7.74	1.3	13.2
108.27	113.19	HC22-0847	1946.54	1754.1	192.44	517.12	418	846	92.9	345	52.2	100	4.7	34.9	4.42	22.6	4.08	10.35	1.4	8.59	1.4	15.6
113.19	118.11	HC22-0848	1404.9	1134.4	270.5	407.32	236	527	62.9	260	48.5	153	6.83	38.1	5.52	30.4	5.75	15	2.06	12	1.84	22.7
118.11	123.03	HC22-0850	3525.22	3204.5	320.72	935.28	789	1525	170.5	629	91	168.5	8.11	58.9	7.38	37.4	6.64	16.55	2.15	13.1	1.99	11.9
123.03	127.95	HC22-0851	2139.26	1926	213.26	563.71	471	921	101.5	376	56.5	110.5	6.43	37.7	4.81	24.9	4.48	11.35	1.57	9.88	1.64	6.8
127.95	132.87	HC22-0852	1817.64	1580.4	237.24	496.05	361	757	85.4	325	52	124.5	7.55	39.4	5.35	28.3	5.13	13.35	1.82	10.2	1.64	5.7
132.87	137.80	HC22-0853	2157.33	1880.5	276.83	585.38	429	904	100.5	385	62	149	8.26	44	5.88	32	5.9	15	2.07	12.65	2.07	5.3
137.80	142.72	HC22-0854	1450.47	1272.8	177.67	388.21	298	610	68.2	256	40.6	93.5	8.14	28.3	3.81	19.6	3.79	9.63	1.34	8.23	1.33	2.6
142.72	147.64	HC22-0855	3247.31	2884.6	362.71	866.33	694	1375	154.5	572	89.1	190.5	7.42	59.8	7.73	43	7.88	21.2	2.85	19.1	3.23	7.9
147.64	152.56	HC22-0856	2599.37	2229.8	369.57	706.65	514	1060	119.5	460	76.3	201	7.01	55.3	7.85	43	8.06	21.5	3.13	19.5	3.22	10.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM005	*4,633,192.16*	*475,748.96*	*5,685.54*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
152.56	157.48	HC22-0857	736.19	630.85	105.34	193.01	151	300	33.9	126	19.95	59.5	2.77	14.35	2.01	11.15	2.25	5.9	0.9	5.6	0.91	3.9
157.48	162.40	HC22-0858	617.6	519.6	98	165.96	122	244	28	108	17.6	52.9	3.99	13.7	1.86	10.5	2.13	5.74	0.86	5.42	0.9	4.7
162.40	167.32	HC22-0859	299.41	236.27	63.14	74.51	59	110	12.3	46.6	8.37	35.3	2.78	6.87	0.97	6.27	1.32	4.12	0.61	4.21	0.69	4
167.32	172.24	HC22-0860	233.76	179.39	54.37	54.61	48.3	82.3	8.88	33.5	6.41	30.9	2.74	5.18	0.78	5.04	1.14	3.36	0.55	4.04	0.64	3.6
172.24	177.17	HC22-0861	274.54	209.83	64.71	65.28	54.2	97.5	10.75	40.2	7.18	36.6	2.92	6.54	0.99	6.16	1.38	4.15	0.72	4.55	0.7	4.4
177.17	182.09	HC22-0862	390.25	285.25	105	102.99	64.4	130	14.95	63	12.9	63.5	2.47	11.2	1.79	10.35	2.23	6.11	0.85	5.63	0.87	4
182.09	187.01	HC22-0863	454.15	375.45	78.7	122.04	87.7	175.5	20.2	78.2	13.85	43.2	3.39	10.35	1.41	8.38	1.6	4.69	0.63	4.35	0.7	4.5
187.01	191.93	HC22-0864	457.98	369.55	88.43	122.52	85.8	172	19.95	77.8	14	49.5	3.09	10.95	1.66	9.11	1.84	5.46	0.82	5.14	0.86	5.1
191.93	196.85	HC22-0865	440.62	349.7	90.92	116.12	81.4	163	18.4	73.4	13.5	51.2	3.15	10.5	1.54	9.28	2.05	5.8	0.92	5.56	0.92	3.1
196.85	201.77	HC22-0866	419.02	323.45	95.57	109.98	76.1	149	17.1	68.5	12.75	54.9	2.69	10.55	1.69	9.94	2.09	5.8	0.95	6	0.96	3.2
201.77	206.69	HC22-0867	397.07	320.85	76.22	103.25	77.2	149.5	17.05	65.5	11.6	42.3	3.31	8.74	1.32	7.78	1.6	4.75	0.71	4.89	0.82	5.2
206.69	211.61	HC22-0868	667.41	532.6	134.81	182.68	121	247	28.9	114	21.7	76.2	3.7	16.8	2.63	15.45	2.99	7.88	1.14	6.88	1.14	4.4
211.61	216.54	HC22-0869	653.48	540.4	113.08	178.11	123	254	29.3	114.5	19.6	62.8	3.63	14.75	2.11	12.6	2.42	6.66	0.98	6.15	0.98	5.8
216.54	221.46	HC22-0871	613.48	503.6	109.88	172.76	111	234	27.7	110	20.9	62.5	2.06	16	2.21	11.95	2.3	5.89	0.91	5.26	0.8	4
221.46	226.38	HC22-0872	561.76	452.8	108.96	170.55	90.9	206	26	107	22.9	61.8	1.7	17.15	2.3	12.35	2.19	5.53	0.76	4.48	0.7	2.7
226.38	231.30	HC22-0873	847.52	674.2	173.32	270.83	124.5	303	39.3	170	37.4	95.6	2.66	32.4	4.13	20	3.51	7.98	1.01	5.2	0.83	1
231.30	236.22	HC22-0874	952.29	739.2	213.09	301.51	136	332	43.4	185	42.8	118.5	3.61	38.3	5.01	25.3	4.46	10	1.16	5.83	0.92	1.3
236.22	241.14	HC22-0875	704.29	577.1	127.19	221.16	112	262	33.6	140.5	29	67.1	2.85	24.1	3.06	15	2.54	6.24	0.83	4.71	0.76	2.2
241.14	246.06	HC22-0876	1464.48	1285.9	178.58	419	276	616	70.6	275	48.3	93.4	4.12	34	4.2	20.9	3.58	9.18	1.21	6.84	1.15	3.3
246.06	250.98	HC22-0877	726.24	607.8	118.44	197.58	141.5	284	33	128	21.3	66.3	3.44	15.8	2.33	12.95	2.53	7	0.96	6.12	1.01	4.5
250.98	255.91	HC22-0878	631.58	522.45	109.13	169.69	121.5	245	28.4	108.5	19.05	60.6	3.58	15.15	2.09	11.65	2.36	6.26	0.91	5.65	0.88	2.7
255.91	260.83	HC22-0879	639.04	497.85	141.19	171.83	113	231	27	107	19.85	82	4.26	16.95	2.68	15.3	3.02	7.91	1.16	6.98	0.93	3
260.83	265.75	HC22-0880	760.26	643.6	116.66	207	148	304	35.3	134	22.3	64.3	3.9	17.3	2.4	13	2.43	6.55	0.85	5.16	0.77	5
265.75	270.67	HC22-0881	910.91	774.7	136.21	250.2	167.5	375	41.6	162.5	28.1	76.3	3.71	19.75	2.85	15.15	2.96	7.32	0.99	6.12	1.06	10.3
270.67	275.59	HC22-0882	890.27	750.2	140.07	251.03	161.5	356	41.5	163	28.2	79.3	2.64	20	2.83	15.5	2.95	7.82	1.09	6.81	1.13	8.7
275.59	280.51	HC22-0883	918.96	793.5	125.46	272.61	176.5	362	42.1	184.5	28.4	66.4	3.11	21.3	2.66	14.95	2.67	6.52	0.98	5.97	0.9	4.5
280.51	285.43	HC22-0884	3017.3	2664.2	353.1	870.97	569	1275	137	595	88.2	178	10.2	65.2	7.97	42.8	7.39	18.9	2.67	17.35	2.62	9.9
285.43	290.35	HC22-0885	3164.68	2756.9	407.78	911.64	583	1320	138.5	618	97.4	213	10.8	70.4	9.04	48.7	8.8	20.6	3.2	20.2	3.04	13.6
290.35	295.28	HC22-0886	2546.93	2196.4	350.53	744.17	457	1045	113.5	499	81.9	182	10.05	60.8	7.57	42.2	7.27	17.9	2.64	17.4	2.7	12.9

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM005	4,633,192.16	475,748.96	5,685.54	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
295.28	300.20	HC22-0887	1587.49	1326.4	261.09	473.4	289	600	70.8	313	53.6	141.5	6.82	40	5.4	30.6	5.42	13.85	2.1	13.45	1.95	9.6
300.20	305.12	HC22-0888	1554.4	1314.5	239.9	465.56	286	596	69.7	311	51.8	125.5	8.38	39.1	4.86	28.2	4.95	12.6	1.77	12.7	1.84	9.3
305.12	310.04	HC22-0890	2215.82	1895.2	320.62	639.81	395	905	97.6	427	70.6	167.5	9.8	54	6.81	37.8	6.81	16.55	2.48	16.35	2.52	11.2
310.04	314.96	HC22-0891	1245.7	1047	198.7	369.19	231	474	55.8	245	41.2	106	7.18	30.4	3.99	23.2	4.2	10.55	1.44	10.25	1.49	9.1
314.96	319.88	HC22-0892	2276.31	1971.3	305.01	647.01	418	949	99.5	436	68.8	160	8.4	51.7	6.31	36.4	6.31	16.5	2.16	14.9	2.33	11.7
319.88	324.80	HC22-0893	1403.76	1195.8	207.96	406.7	267	550	63.2	272	43.6	113	6.08	31.8	4.1	23.8	4.22	10.55	1.72	11.05	1.64	11.2
324.80	329.72	HC22-0894	370.76	303.65	67.11	108.78	67.5	136.5	16.35	71.6	11.7	37.2	1.16	9.67	1.31	7.82	1.36	3.89	0.53	3.7	0.47	1.4
329.72	334.65	HC22-0895	285.96	241.3	44.66	84.29	53.1	110	13.35	55.2	9.65	23.5	1.1	7.35	0.92	5.17	0.96	2.54	0.37	2.37	0.38	1.6
334.65	339.57	HC22-0896	18.29	14.6	3.69	4.49	4.1	6.4	0.76	2.9	0.44	2.3	0.08	0.41	0.06	0.33	0.08	0.17	0.03	0.22	0.01	0.6
339.57	344.49	HC22-0897	76.19	62.84	13.35	22.24	13.9	28.5	3.35	14.9	2.19	7.1	0.44	2.03	0.27	1.53	0.28	0.71	0.13	0.79	0.07	1.1
344.49	349.41	HC22-0898	456.96	343.4	113.56	139.84	65.7	152.5	18.7	89.1	17.4	66.5	2.14	14.35	2.04	12.6	2.49	6.1	0.9	5.71	0.73	5.4
349.41	354.33	HC22-0899	714.24	532.6	181.64	229.74	99.9	227	29.7	147	29	97	8.45	25.7	3.44	20.6	3.64	9.46	1.48	10.35	1.52	24.9
354.33	359.25	HC22-0900	694.26	524.7	169.56	229.32	94.8	223	30.2	146.5	30.2	91	7.41	23.7	3.17	19.25	3.46	9.31	1.52	9.28	1.46	29.1
359.25	364.17	HC22-0901	796.36	592.9	203.46	266.85	104	248	34	172	34.9	109	9.84	28.7	3.75	22.2	4.04	11.2	1.58	11.25	1.9	33.2
364.17	369.09	HC22-0902	778.84	572.4	206.44	263.28	98.2	238	32.6	169.5	34.1	110	9.54	29.2	3.88	23.2	4.22	11.3	1.72	11.6	1.78	33.9
369.09	374.02	HC22-0903	835.56	622.7	212.86	282.75	107	261	35.4	182	37.3	113	10.25	30.2	4.05	24	4.32	11.65	1.84	11.75	1.8	35.6
374.02	378.94	HC22-0904	821.97	613.3	208.67	275.47	108.5	256	35.2	179	34.6	112.5	10.4	28.6	3.87	22.8	4.24	10.85	1.78	11.9	1.73	33.7
378.94	383.86	HC22-0905	838.35	623.6	214.75	271.36	113	267	35.1	173.5	35	116	9.35	29.8	3.96	23.8	4.31	11.9	1.84	11.85	1.94	30.2
383.86	388.78	HC22-0906	782.2	585.9	196.3	261.22	105.5	245	32.8	168.5	34.1	105	9.1	27.8	3.82	22	4.02	10.5	1.63	10.85	1.58	31.6
388.78	393.70	HC22-0907	740.03	560.4	179.63	245.92	103	236	31.4	159	31	93.7	9.2	25.5	3.32	21.2	3.78	9.87	1.53	9.97	1.56	30.5
393.70	398.62	HC22-0908	719.18	534.3	184.88	238.7	93.3	226	30.7	153.5	30.8	98.6	8.49	26.3	3.5	20.2	3.9	9.85	1.62	10.9	1.52	31.2
398.62	403.54	HC22-0910	818.36	607.3	211.06	266.58	109	259	34.8	171	33.5	115.5	8.62	29.3	3.88	23.4	4.34	10.95	1.76	11.7	1.61	32.3
403.54	408.46	HC22-0911	833.95	635.7	198.25	267.03	123	272	34.3	172.5	33.9	109.5	7.84	28.2	3.83	22.5	3.88	10.35	1.46	9.47	1.22	29.7
408.46	413.39	HC22-0912	799.75	618.8	180.95	244.95	124.5	273	34.5	158	28.8	100	6.48	25.6	3.45	20.2	3.72	9.64	1.48	9.06	1.32	24.3
413.39	418.31	HC22-0913	787.43	558.9	228.53	241.43	105.5	242	31.6	149	30.8	130.5	5.55	28.2	4.13	25.9	5.04	13.15	1.86	12.5	1.7	24.9
418.31	423.23	HC22-0914	713.37	533.5	179.87	224.22	100.5	232	30.2	142	28.8	100	6.86	24.3	3.27	19.95	3.89	9.37	1.44	9.43	1.36	49.3
423.23	428.15	HC22-0915	702.33	515.9	186.43	219.66	98	223	29	139	26.9	103.5	6.33	24.3	3.46	21.3	3.85	10.45	1.55	10.3	1.39	49
428.15	433.07	HC22-0916	522.29	379.5	142.79	161	72.2	164.5	21.5	101	20.3	80.5	4.9	18.1	2.45	15.75	2.93	7.9	1.18	7.96	1.12	31.4
433.07	437.99	HC22-0917	348.32	254.75	93.57	98.59	55	113	13.15	62.5	11.1	54.1	3.11	10.45	1.54	10.3	1.89	5.72	0.79	5.09	0.58	9.9

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM005	4,633,192.16	475,748.96	5,685.54	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
437.99	442.91	HC22-0918	728.65	535.8	192.85	222.44	105.5	233	29	139	29.3	110.5	5.65	24.6	3.34	21.8	3.91	9.99	1.55	10.05	1.46	38.3
442.91	447.83	HC22-0919	568.47	409	159.47	170.25	83.2	176.5	23.2	105	21.1	90.9	4.23	19.6	2.65	18.3	3.1	9.78	1.24	8.52	1.15	28.9
447.83	452.76	HC22-0920	355.95	281.35	74.6	98.26	66	127	15.45	62.1	10.8	41.3	2.62	9.15	1.29	8.62	1.6	4.65	0.6	4.2	0.57	5.2
452.76	457.68	HC22-0921	461.19	339.1	122.09	136.68	71.6	146.5	19.1	85	16.9	69.6	4.3	14.5	1.98	13.7	2.58	7.4	0.93	6.16	0.94	19.2
457.68	462.60	HC22-0922	625.97	474.7	151.27	189.68	98.3	206	27.1	120	23.3	85.5	5.15	19.4	2.53	16.75	2.89	9.22	1.17	7.56	1.1	24.5
462.60	467.52	HC22-0923	692.9	515.7	177.2	211.73	104.5	222	28.7	134.5	26	99.8	5.87	22.5	2.93	19.6	3.41	10.65	1.42	9.64	1.38	39
467.52	472.44	HC22-0924	511.3	380.25	131.05	145.75	83.5	167.5	21.2	91.1	16.95	75.5	4.12	15.5	2.05	14.45	2.48	7.91	1.04	6.93	1.07	18.4
472.44	477.36	HC22-0925	577.69	432	145.69	170.25	91.4	188.5	24.3	105.5	22.3	83.9	4.6	17.6	2.4	15.75	2.97	8.59	1.16	7.61	1.11	23.9
477.36	482.28	HC22-0926	580.76	467.2	113.56	164.97	106	211	25.5	106	18.7	63.1	4.39	15.1	2.02	12.75	2.12	6.74	0.84	5.68	0.82	12.2
482.28	487.20	HC22-0927	714.63	491.2	223.43	204.17	101.5	213	28	122.5	26.2	135.5	4.41	23.9	3.57	23.9	4.31	13.05	1.69	11.7	1.4	26.9
487.20	492.13	HC22-0928	693.86	498.3	195.56	206.11	101	215	28.4	128	25.9	115	5.17	22.4	3.21	20.6	3.76	11.95	1.5	10.55	1.42	39

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM006	*4,633,192.16*	*475,748.96*	*5,685.54*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-0929	415.78	334.45	81.33	118.55	73.1	153	17.9	76.6	13.85	44.1	3.73	11.25	1.42	8.78	1.61	5.03	0.63	4.2	0.58	9.7
4.92	9.84	HC22-0931	435.52	347.7	87.82	125.37	75.6	158.5	18.95	79.9	14.75	47.9	2.97	12.35	1.52	10.25	1.72	5.34	0.66	4.45	0.66	11.6
9.84	14.76	HC22-0932	839.79	713.4	126.39	247.85	161	322	38.4	164.5	27.5	65.3	4.34	21.5	2.5	14.95	2.57	7.31	0.89	6.16	0.87	10.2
14.76	19.69	HC22-0933	1349.34	1183.3	166.04	394.52	274	538	64.2	265	42.1	84.2	5.84	29.9	3.42	19.8	3.2	9.43	1.16	7.9	1.19	12.3
19.69	24.61	HC22-0934	884.66	769.4	115.26	256.06	181.5	348	42.3	170.5	27.1	57.7	5	20	2.36	13.8	2.28	6.82	0.83	5.6	0.87	10.7
24.61	29.53	HC22-0935	971.94	839.2	132.74	283.62	195	379	46.2	189	30	67.6	5.3	22.9	2.67	15.75	2.59	7.5	0.98	6.54	0.91	12.5
29.53	34.45	HC22-0936	742.31	619.2	123.11	214.48	143.5	277	33.6	141.5	23.6	67.6	4.4	18.05	2.18	13.6	2.34	6.89	0.89	6.28	0.88	11.6
34.45	39.37	HC22-0937	793.36	659.4	133.96	234.55	152.5	290	36.6	153.5	26.8	72.5	4.59	20.3	2.45	15.2	2.52	7.55	1.02	6.9	0.93	9.5
39.37	44.29	HC22-0938	960.68	786.6	174.08	280.75	179	350	42.6	183	32	94.8	4.93	25.6	3.25	19.9	3.54	10.7	1.32	8.8	1.24	11.6
44.29	49.21	HC22-0939	334.21	254.45	79.76	103.19	56.7	105	14.15	64.5	14.1	43.4	3.54	12.35	1.49	8.95	1.5	4.25	0.53	3.36	0.39	3.4
49.21	54.13	HC22-0940	642.9	537.6	105.3	205.81	111	235	30.5	134.5	26.6	54.9	3.69	20.1	2.16	12.05	1.96	5.25	0.59	4.02	0.58	4.7
54.13	59.06	HC22-0941	577.48	491.8	85.68	164.07	115.5	223	27	108.5	17.8	45.8	4.52	12.95	1.52	9.25	1.58	4.68	0.62	4.18	0.58	6.4
59.06	63.98	HC22-0942	592.8	495.65	97.15	160.23	119.5	228	26.4	105	16.75	52.8	3.24	14.15	1.68	10.4	1.84	5.97	0.76	5.46	0.85	12.4
63.98	68.90	HC22-0943	733.53	612.2	121.33	209.62	141.5	277	34	136	23.7	65.4	4.41	17.9	2.17	13.75	2.42	7.16	0.94	6.28	0.9	9.4
68.90	73.82	HC22-0944	618.65	498.8	119.85	179.43	114	221	27.4	116	20.4	65	5.45	17.2	2.18	13.45	2.33	6.81	0.9	5.78	0.75	7.6
73.82	78.74	HC22-0945	506.52	383.45	123.07	148.47	83.4	167.5	21.6	92.2	18.75	69.1	4.87	16.05	2.02	13.9	2.41	7.24	0.93	5.79	0.76	13.4
78.74	83.66	HC22-0946	654.67	531.4	123.27	190.69	119	238	28.8	123	22.6	67.4	4.7	17.95	2.34	13.95	2.38	7.13	0.88	5.73	0.81	10
83.66	88.58	HC22-0947	650.85	498.1	152.75	188.84	110	219	27.4	118	23.7	85.4	5.55	20.9	2.64	17.1	2.93	9.11	1.15	6.96	1.01	6
88.58	93.50	HC22-0948	715.91	582.4	133.51	206.44	134.5	260	31.6	132	24.3	71	5.62	19.35	2.34	16.2	2.6	8.01	1.07	6.5	0.82	5.2
93.50	98.43	HC22-0950	434.06	330.8	103.26	125.29	72.8	145.5	18.45	79.3	14.75	58.2	3.5	13.9	1.64	11.15	1.94	6.22	0.78	5.25	0.68	22.7
98.43	103.35	HC22-0951	649.6	503.8	145.8	187.23	112	223	28.2	117.5	23.1	83.5	3.46	19.7	2.58	15.85	2.91	8.57	1.1	7.16	0.97	23.3
103.35	108.27	HC22-0952	616.17	465.4	150.77	185.91	96.4	202	26.5	118	22.5	83.8	5.38	21.6	2.51	16.4	2.84	8.87	1.12	7.27	0.98	28.1
108.27	113.19	HC22-0953	368.46	278.15	90.31	107.64	60.4	121	15.6	67.3	13.85	52.6	3.1	10.95	1.41	9.48	1.66	5.37	0.73	4.4	0.61	21.3
113.19	118.11	HC22-0954	570.76	474.5	96.26	153.53	117.5	216	25.1	99.4	16.5	54.4	2.54	12.95	1.68	10.85	1.96	5.61	0.66	5	0.61	13.5
118.11	123.03	HC22-0955	755.27	608.1	147.17	198.46	142	287	33.2	123.5	22.4	85	2.87	18.75	2.91	16.45	3.22	8.64	1.23	7.12	0.98	11.4
123.03	127.95	HC22-0956	266.49	215.14	51.35	72.28	49.1	100.5	11.95	45.6	7.99	29	1.4	6.87	0.99	5.75	1.07	2.92	0.43	2.53	0.39	9.4
127.95	132.87	HC22-0957	1572.21	1239.7	332.51	445.95	259	582	69.2	275	54.5	184	6.72	47.9	7.25	40	7.66	19.3	2.6	14.85	2.23	8.2
132.87	137.80	HC22-0958	1185.91	904	281.91	340.62	184.5	418	50.8	209	41.7	160	4.4	38.2	5.92	33.2	6.42	16.75	2.19	12.95	1.88	14.9
137.80	142.72	HC22-0959	1623.62	1320	303.62	446.69	290	627	71.5	280	51.5	166	4.06	45.9	6.79	36.9	6.96	18.35	2.41	14.1	2.15	15.6

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM006	*4,633,192.16*	*475,748.96*	*5,685.54*	*492.13*	*RC*

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE					Heavy REE										Sc
							La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
142.72	147.64	HC22-0960	3189.1	2746.2	442.9	849.31	656	1305	147	549	89.2	240	6.98	70.2	9.81	54.3	10.2	25.1	3.44	19.9	2.97	9.7
147.64	152.56	HC22-0961	1850.24	1584.7	265.54	506.32	355	761	85.8	328	54.9	142	4.42	43.7	6.02	31.6	6.04	15.65	2.07	12.1	1.94	11.9
152.56	157.48	HC22-0962	815.73	695.1	120.63	224.16	161	327	37.7	145.5	23.9	62.5	4.58	19.15	2.76	14.3	2.7	6.94	0.96	5.82	0.92	11.2
157.48	162.40	HC22-0963	915.12	783.5	131.62	251.91	180.5	369	42.6	164.5	26.9	68.8	4.71	21.2	2.91	15	2.86	7.61	1.06	6.39	1.08	10.6
162.40	167.32	HC22-0964	807.72	693.8	113.92	220.5	162.5	327	37.5	143	23.8	58.4	4.77	18.25	2.55	13.65	2.51	6.36	0.91	5.62	0.9	11.4
167.32	172.24	HC22-0965	754.32	654	100.32	206.83	152	309	35.9	135.5	21.6	50.7	4.45	16.8	2.23	11.6	2.18	5.94	0.78	4.9	0.74	9.2
172.24	177.17	HC22-0966	802.97	700.1	102.87	219.56	164.5	330	37.7	145	22.9	52	4.87	17.45	2.36	11.6	2.2	5.67	0.74	5.18	0.8	10.6
177.17	182.09	HC22-0967	842.51	707.5	135.01	230.64	163.5	332	38.6	147.5	25.9	71	5.15	21	2.94	15.7	3.01	8.01	1.04	6.16	1	6.9
182.09	187.01	HC22-0968	766.53	663.5	103.03	208.93	155.5	313	35.9	136.5	22.6	52.4	5.03	17.45	2.28	11.65	2.14	5.67	0.77	4.83	0.81	8.6
187.01	191.93	HC22-0970	795.29	688.6	106.69	218.59	160.5	324	37.4	142.5	24.2	54.5	4.85	17.6	2.34	12.15	2.38	5.97	0.81	5.24	0.85	11.4
191.93	196.85	HC22-0971	838.75	728.3	110.45	232.34	169	342	39.6	153	24.7	55.6	5.01	18.35	2.49	12.55	2.43	6.37	0.87	5.84	0.94	11.8
196.85	201.77	HC22-0972	834.05	722.5	111.55	232.36	165.5	340	38.9	153.5	24.6	56.6	4.73	18.95	2.46	12.9	2.36	6.18	0.85	5.55	0.97	10.9
201.77	206.69	HC22-0973	836.36	731.9	104.46	232.23	169.5	345	39.9	153.5	24	52.3	4.47	17.8	2.38	12.45	2.26	5.9	0.8	5.21	0.89	11
206.69	211.61	HC22-0974	829.75	721.4	108.35	231.6	165	340	39.5	153	23.9	53.8	4.77	18.55	2.45	12.75	2.34	6.21	0.85	5.65	0.98	10.5
211.61	216.54	HC22-0975	791.84	687.1	104.74	219.38	159	323	36.9	145.5	22.7	52.8	4.67	17.65	2.38	11.9	2.24	5.95	0.82	5.36	0.97	12.7
216.54	221.46	HC22-0976	657.56	569.15	88.41	182.33	132	267	31.2	119.5	19.45	43.7	4.59	15.15	1.98	10.2	1.89	4.83	0.68	4.59	0.8	10.2
221.46	226.38	HC22-0977	772.51	666.5	106.01	216.82	151.5	313	36.5	142.5	23	52.8	4.95	17.75	2.42	12.4	2.25	6.14	0.93	5.47	0.9	12
226.38	231.30	HC22-0978	719.74	618.8	100.94	200.3	141	291	34.2	131	21.6	51.1	4.69	16.95	2.15	11.35	2.19	5.76	0.79	5.08	0.88	12
231.30	236.22	HC22-0979	692.38	586.5	105.88	195.46	132.5	273	32.3	126.5	22.2	54.4	4.66	16.5	2.31	12.15	2.35	5.83	0.86	5.81	1.01	11.6
236.22	241.14	HC22-0980	697.8	576.7	121.1	194.87	130.5	268	31.5	124.5	22.2	63.2	4.91	18.65	2.57	14.1	2.68	7.07	1	5.98	0.94	9.9
241.14	246.06	HC22-0981	793	649.2	143.8	219.7	147	302	35.7	139.5	25	77.4	4.74	21.1	3	16.5	3.23	8.59	1.09	7.09	1.06	9.9
246.06	250.98	HC22-0982	700.22	576.2	124.02	195.59	130	267	31.2	125.5	22.5	66.3	5.03	18.3	2.59	13.8	2.67	7.26	1.04	6.03	1	9.9
250.98	255.91	HC22-0983	619.37	517.95	101.42	174.5	117.5	240	29	111.5	19.95	52	4.9	15.45	2.25	11.8	2.21	5.77	0.8	5.49	0.75	10.7
255.91	260.83	HC22-0984	587.44	494.85	92.59	163.1	113.5	231	27.3	105.5	17.55	47.7	4.46	13.85	1.95	10.8	1.95	5.44	0.71	4.97	0.76	9.6
260.83	265.75	HC22-0985	579.7	480.6	99.1	158.93	110	225	26.1	102.5	17	52.8	4.06	14.15	1.98	11.35	2.13	5.94	0.84	5.04	0.81	4.8
265.75	270.67	HC22-0986	754.97	642.1	112.87	208.36	148	301	35.2	135.5	22.4	59	4.91	17.3	2.36	12.9	2.38	6.54	0.94	5.6	0.94	10
270.67	275.59	HC22-0987	585.32	484.45	100.87	163.21	110	225	26.2	105.5	17.75	52.9	4.53	14.85	2.06	11.7	2.29	5.92	0.84	4.92	0.86	8.2
275.59	280.51	HC22-0988	579.44	423.4	156.04	161.12	91	192	23.9	96.3	20.2	86.8	5.45	20.2	3.07	17.65	3.51	9.78	1.22	7.31	1.05	4.5
280.51	285.43	HC22-0989	918.29	752.6	165.69	261.85	180.5	333	42.9	167.5	28.7	89.6	5.35	23.6	3.05	19.7	3.37	10.05	1.15	8.68	1.14	6.6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM006	*4,633,192.16*	*475,748.96*	*5,685.54*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
285.43	290.35	HC22-0991	1830.79	1568.1	262.69	512.76	389	704	88.4	331	55.7	140	5.76	41.4	5.26	32.4	5.35	15.5	1.85	13.4	1.77	6.6
290.35	295.28	HC22-0992	2755.89	2470.7	285.19	737.22	585	1190	132.5	489	74.2	144.5	6.44	52.2	5.82	35.7	5.55	16.7	2.04	14.25	1.99	10.2
295.28	300.20	HC22-0993	2642.84	2306.9	335.94	736.68	528	1090	126	483	79.9	174	8.4	57.6	6.98	40.8	6.95	19.7	2.46	16.7	2.35	11.2
300.20	305.12	HC22-0994	1419.87	1200.7	219.17	419.24	282	530	69.5	273	46.2	115.5	6.24	35.1	4.24	26.3	4.43	13.15	1.55	11.05	1.61	8.4
305.12	310.04	HC22-0995	2258.98	1943.8	315.18	647.21	432	909	107.5	424	71.3	160.5	10.15	53.6	6.51	37.9	6.21	18.35	2.29	17.1	2.57	14.2
310.04	314.96	HC22-0996	2285.66	1946.4	339.26	662	431	902	108.5	431	73.9	176.5	9.72	54.8	6.8	41.8	7.05	20.1	2.43	17.5	2.56	15.2
314.96	319.88	HC22-0997	2410.39	2063.2	347.19	700.83	449	962	113.5	458	80.7	179	10.55	58.9	7.13	41.5	6.94	19.4	2.53	18.3	2.94	14.6
319.88	324.80	HC22-0998	1696	1449.9	246.1	512.72	337	635	83.5	337	57.4	126.5	7.94	41.2	5.22	29.6	4.97	14.1	1.77	12.9	1.9	14.4
324.80	329.72	HC22-0999	1815.84	1538.2	277.64	541.24	358	679	88.1	351	62.1	142.5	8.8	46.2	5.64	34.4	5.8	16.2	2	14	2.1	14
329.72	334.65	HC22-1000	2921.82	2554.5	367.32	826.36	588	1195	140	543	88.5	186	9.89	64.8	7.56	47.3	7.22	20.9	2.57	18.35	2.73	11.1
334.65	339.57	HC22-1001	1134.87	967	167.87	326.76	233	430	55.1	214	34.9	88.5	5.41	27.4	3.21	19.55	3.33	9.71	1.17	8.34	1.25	8.9
339.57	344.49	HC22-1002	775.41	657.3	118.11	219.95	160	293	37.6	142.5	24.2	61.4	5.5	17.65	2.25	13.4	2.43	7.29	0.9	6.32	0.97	9.2
344.49	349.41	HC22-1003	727.1	592.9	134.2	213.13	139	259	34.5	137	23.4	72.4	5.19	18.8	2.48	15.75	2.56	7.83	0.94	7.19	1.06	11
349.41	354.33	HC22-1004	674.66	537.8	136.86	197	125.5	234	32	124	22.3	74.2	4.47	19.1	2.6	16.1	2.7	8.18	0.98	7.35	1.18	10.2
354.33	359.25	HC22-1005	264.63	212.87	51.76	76.46	48.1	94.3	12.1	50.1	8.27	30.4	0.92	6.46	0.79	5.2	0.94	3.05	0.37	3.24	0.39	2.9
359.25	364.17	HC22-1006	239.31	203.99	35.32	69.78	49.2	90	11.3	45.2	8.29	18.4	1.4	5.34	0.68	4.31	0.67	2.02	0.3	1.96	0.24	1.6
364.17	369.09	HC22-1007	656.86	508	148.86	209.59	104	214	30.3	134	25.7	76.9	7.41	21.8	2.69	16.9	2.98	8.98	1.17	8.54	1.49	24.9
369.09	374.02	HC22-1008	658.01	479.3	178.71	222.3	86.6	193.5	30.7	140	28.5	92.3	9.15	25.5	3.1	20	3.56	11.2	1.38	10.9	1.62	34.2
374.02	378.94	HC22-1010	679.29	493	186.29	235.15	87.6	194.5	31.3	148.5	31.1	96.3	10.3	26.4	3.35	20.9	3.63	11.15	1.48	11	1.78	42.1
378.94	383.86	HC22-1011	700.65	528.4	172.25	220.54	106.5	223	32.1	138	28.8	92.7	8.14	23.6	2.94	18.7	3.37	10.75	1.25	9.34	1.46	28
383.86	388.78	HC22-1012	803.5	652.7	150.8	223.32	159	289	37	143.5	24.2	84.5	5.86	20	2.47	16.15	2.96	8.59	1.15	7.85	1.27	7.4
388.78	393.70	HC22-1013	808.07	645.9	162.17	229.1	155	283	37.2	143.5	27.2	88.2	5.93	22.1	3	18.2	3.24	10.3	1.24	8.85	1.11	9.7
393.70	398.62	HC22-1014	688.17	508	180.17	229.03	96.4	206	31.9	143.5	30.2	93.9	9.64	25.4	3.23	20.2	3.49	11.3	1.48	10.05	1.48	36.5
398.62	403.54	HC22-1015	731.63	533.4	198.23	251.36	93.8	214	33.7	158.5	33.4	103.5	10.8	27.9	3.36	22.4	3.77	11.85	1.56	11.35	1.74	45.3
403.54	408.46	HC22-1016	632.23	460.8	171.43	214.53	83.6	184.5	29.4	134.5	28.8	89.8	9.28	23.3	2.98	18.85	3.35	10.5	1.38	10.4	1.59	36.5
408.46	413.39	HC22-1017	650.63	472.8	177.83	226.54	81.5	188	30.3	141	32	91	10.4	25.5	3.24	20	3.39	10.45	1.49	10.6	1.76	41
413.39	418.31	HC22-1018	745.47	566.1	179.37	242.74	112	235	34.3	153	31.8	93.3	8.95	25.8	3.14	20.5	3.39	11.05	1.45	10.2	1.59	39.9
418.31	423.23	HC22-1019	1419.84	1220.1	199.74	443.19	270	533	72.1	296	49	101	8.81	33.9	3.89	22.2	3.81	11.9	1.47	11	1.76	28.3
423.23	428.15	HC22-1020	957.87	713.3	244.57	309.4	140.5	295	43	195	39.8	133.5	8.61	33.2	4.2	27.4	4.67	15.05	1.86	14.1	1.98	41.5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM006	4,633,192.16	475,748.96	5,685.54	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-1021	744.85	514.4	230.45	239.88	94.5	210	32.6	146	31.3	125	8.11	30	3.88	26.1	4.89	14.5	1.93	13.8	2.24	35.1
433.07	437.99	HC22-1022	631.73	462.8	168.93	200.49	92.9	190.5	28.1	124.5	26.8	90.3	8.99	22.4	2.79	18.3	3.34	10.5	1.29	9.6	1.42	22.7
437.99	442.91	HC22-1023	760.01	591.1	168.91	222.85	134	256	34.1	141.5	25.5	94.7	5.04	22.4	2.85	18.9	3.3	9.73	1.3	9.37	1.32	26.4
442.91	447.83	HC22-1024	860.59	637.2	223.39	262.58	134	269	38.4	163.5	32.3	125.5	6.83	29.7	3.68	24.7	4.46	13.2	1.66	12	1.66	32.5
447.83	452.76	HC22-1025	856.7	650	206.7	261.46	128.5	288	36.9	162.5	34.1	112	6.96	29.9	3.96	24	4.17	12.2	1.58	10.55	1.38	35.2
452.76	457.68	HC22-1026	917.05	651.6	265.45	274.04	122.5	289	38.3	165	36.8	151.5	6.03	33.2	4.74	29.2	5.53	16.8	2.09	14.4	1.96	48.4
457.68	462.60	HC22-1027	880.4	660.9	219.5	261.31	131	297	37.8	162.5	32.6	124	6.51	28.9	4.01	24.4	4.27	12.6	1.72	11.45	1.64	44
462.60	467.52	HC22-1028	841.02	626	215.02	252.44	122	280	35.9	156.5	31.6	118.5	6.36	29.2	3.94	24.5	4.52	13.15	1.69	11.55	1.61	52.9
467.52	472.44	HC22-1030	1186.94	939.7	247.24	340.62	203	429	53.1	214	40.6	135.5	6.97	34.7	4.52	28.4	4.96	15.2	1.86	13.25	1.88	25.3
472.44	477.36	HC22-1031	1119.18	874.3	244.88	326.61	183.5	397	49	204	40.8	136	7.05	33.1	4.51	28.3	5.22	14.6	1.93	12.35	1.82	35.2
477.36	482.28	HC22-1032	888.43	639.5	248.93	261.75	125.5	285	37.2	158	33.8	142.5	5.15	30.7	4.55	28.2	5.01	15.4	1.9	13.6	1.92	45.9
482.28	487.20	HC22-1033	957.59	684.6	272.99	283.55	131.5	305	40.3	170.5	37.3	154.5	6.43	33.5	4.85	30.6	5.66	18.3	2.24	14.85	2.06	48.9
487.20	492.13	HC22-1034	521.41	376.65	144.76	149.07	76.9	169	21.4	90.9	18.45	82.6	4.17	17.6	2.52	15.8	3.02	8.77	1.2	7.86	1.22	26.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM007	*4,633,063.16*	*475,613.38*	*5,708.47*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-1035	2728.92	2407	321.92	755.42	528	1175	125	496	83	153	8.84	65.1	8.02	43.4	7.04	18.45	2.11	14	1.96	5.6
4.92	9.84	HC22-1036	3551.44	3150	401.44	977.02	695	1540	164.5	641	109.5	195	11.3	81	9.62	52.4	8.61	22.2	2.42	16.65	2.24	5.1
9.84	14.76	HC22-1037	3261.96	2880	381.96	901.56	632	1405	150.5	591	101.5	183.5	11	78.2	9.46	49.1	8.42	21.2	2.61	16.15	2.32	5.8
14.76	19.69	HC22-1038	3176.55	2778	398.55	888.08	588	1365	144	579	102	191.5	10.95	79.8	9.78	53.3	8.77	22.9	2.54	16.75	2.26	4.8
19.69	24.61	HC22-1039	3122.88	2732.8	390.08	872.72	610	1305	145	575	97.8	202	11.05	72.5	8.52	46.4	7.81	21.9	2.45	15.3	2.15	2.6
24.61	29.53	HC22-1040	2927.09	2618.7	308.39	793.43	567	1305	136	525	85.7	149.5	10.2	61.9	7.33	39.4	6.6	17.3	1.86	12.4	1.9	4.1
29.53	34.45	HC22-1041	3075.96	2723.6	352.36	840.06	597	1340	140.5	552	94.1	171	11.7	70.5	8.26	45.2	7.65	19.55	2.15	14.3	2.05	4.9
34.45	39.37	HC22-1042	2832.33	2514.7	317.63	773.24	546	1245	129.5	507	87.2	154	9.66	63.4	7.74	41.8	6.88	17.4	2.1	12.65	2	4.3
39.37	44.29	HC22-1043	3290.93	2944.8	346.13	897.88	640	1460	152	595	97.8	167.5	11.3	69.5	8.28	44.8	7.38	19.35	2.18	13.85	1.99	4.3
44.29	49.21	HC22-1044	4028.52	3582.5	446.02	1107.1	790	1755	185	726	126.5	217	11.75	90.4	10.9	58.7	9.5	24.6	2.9	17.7	2.57	2.5
49.21	54.13	HC22-1045	3390.3	3038.5	351.8	922.76	661	1510	154	611	102.5	169.5	11.2	71.5	8.66	46.6	7.6	18.95	2.14	13.6	2.05	3.3
54.13	59.06	HC22-1046	2687.48	2375.8	311.68	730.48	523	1170	123	479	80.8	152.5	10.7	60.3	7.38	40.3	6.6	17.45	2.04	12.65	1.76	4.3
59.06	63.98	HC22-1047	5550.62	4900.5	650.12	1536.95	1075	2390	255	1005	175.5	320	12.9	130.5	15.85	85.6	14.2	36.8	4.16	26.4	3.71	4.9
63.98	68.90	HC22-1048	5347.08	4751.5	595.58	1465.7	1040	2340	248	962	161.5	288	12.75	123	14.7	79.5	12.9	33.8	3.8	23.7	3.43	4.8
68.90	73.82	HC22-1049	3525.29	3117.5	407.79	962.81	677	1540	161.5	631	108	203	11.4	78.6	9.51	52.8	8.72	22.9	2.63	15.85	2.38	3.8
73.82	78.74	HC22-1051	4136.03	3635.5	500.53	1142	787	1785	189.5	742	132	247	11.9	97.7	12.2	66.3	10.65	28	3.3	20.7	2.78	5.1
78.74	83.66	HC22-1052	3511.9	3081	430.9	969.9	667	1510	161	630	113	211	12	84.6	10.3	55.6	9.45	25.2	2.8	17.5	2.45	3.9
83.66	88.58	HC22-1053	3361.55	2990.5	371.05	916.14	656	1475	155	604	100.5	181	11.8	74.4	8.94	47.7	7.81	20.2	2.38	14.85	1.97	4.5
88.58	93.50	HC22-1054	3364.42	3010.5	353.92	927.36	663	1475	156.5	612	104	169	11.1	73.7	8.66	46.2	7.58	19.4	2.22	14.15	1.91	4
93.50	98.43	HC22-1055	3050.42	2740.7	309.72	839.14	599	1350	142.5	557	92.2	147.5	11	64.6	7.44	40	6.38	16.5	1.92	12.5	1.88	4.9
98.43	103.35	HC22-1056	3372.1	3012.7	359.4	914.2	660	1495	156.5	602	99.2	172	11.4	72.7	8.9	47.6	7.56	20.3	2.23	14.6	2.11	3.9
103.35	108.27	HC22-1057	3128.8	2806.3	322.5	844.19	608	1405	143.5	557	92.8	155	10.55	65.2	7.99	42.9	6.99	17.25	2.12	12.7	1.8	3.9
108.27	113.19	HC22-1058	3329.77	2977.5	352.27	899.82	653	1480	152.5	591	101	170	11.05	70.6	8.52	46.8	7.8	19	2.36	14.05	2.09	6
113.19	118.11	HC22-1059	3340.17	2996.9	343.27	898.95	656	1495	152.5	594	99.4	164.5	11.4	70.1	8.15	44.9	7.18	19.3	2.13	13.75	1.86	4.7
118.11	123.03	HC22-1060	3419.81	3069.5	350.31	936.28	667	1520	157.5	621	104	168.5	10.55	72	8.48	45.3	7.7	19.5	2.23	14.05	2	3.1
123.03	127.95	HC22-1061	2858.19	2544.6	313.59	793.4	590	1210	134	518	92.6	153	10.9	59.4	7.6	41.2	7.19	17	2.22	13.05	2.03	8.1
127.95	132.87	HC22-1062	3455.05	3118	337.05	955.51	720	1495	165	629	109	162	11.7	67.8	8.71	43.8	7.32	17.8	2.28	13.55	2.09	7.5
132.87	137.80	HC22-1063	3784.55	3416.5	368.05	1057.47	797	1620	182	697	120.5	179	11.55	72.4	9.37	48.6	8.22	19.25	2.5	14.8	2.36	8.6
137.80	142.72	HC22-1064	3030.77	2714.2	316.57	844.35	624	1295	143.5	555	96.7	153	10.3	61.4	8.05	41.1	7.3	17.65	2.25	13.4	2.12	8.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM007	*4,633,063.16*	*475,613.38*	*5,708.47*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
142.72	147.64	HC22-1065	3039.05	2733.3	305.75	840.49	635	1305	144	553	96.3	148.5	10.65	59.2	7.79	39.4	6.94	16.35	2.13	12.75	2.04	8.4
147.64	152.56	HC22-1066	2534.17	2244	290.17	689.86	513	1085	113.5	454	78.5	141	10.1	56.6	7.36	36.5	6.73	16.5	2.03	11.6	1.75	7.3
152.56	157.48	HC22-1067	3127.16	2815.9	311.26	843.84	644	1375	141.5	562	93.4	149	11.05	64.3	7.84	39.1	7.02	16.95	2.02	12.15	1.83	7.2
157.48	162.40	HC22-1068	3624.1	3250.5	373.6	1006.98	749	1550	173	675	103.5	182.5	12.45	76.9	9.38	46.1	8.13	19.15	2.39	14.4	2.2	3.5
162.40	167.32	HC22-1070	3090.19	2745.2	344.99	876.75	620	1300	149.5	581	94.7	170	11	68.9	8.65	42.9	7.5	18.35	2.27	13.45	1.97	4
167.32	172.24	HC22-1071	3190.18	2835.5	354.68	891.87	647	1350	152	590	96.5	174	11.75	71.1	8.97	44.4	7.81	18.55	2.23	13.75	2.12	3
172.24	177.17	HC22-1072	3034.05	2696.8	337.25	856.85	611	1280	145	570	90.8	164	11.15	68.7	8.65	42.4	7.48	17.45	2.22	13.2	2	3.5
177.17	182.09	HC22-1073	3701.63	3315.5	386.13	1030.45	769	1575	177	685	109.5	188.5	12.25	78.6	10.05	48.9	8.37	20	2.42	14.65	2.39	2.1
182.09	187.01	HC22-1074	3703.82	3294.5	409.32	1040.75	765	1550	176.5	689	114	203	11.95	83	10.55	50.7	9.07	20.8	2.55	15.4	2.3	2.7
187.01	191.93	HC22-1075	3400.45	3017.5	382.95	946.84	704	1425	161	627	100.5	187	12.1	76.8	9.84	48.5	8.59	20	2.52	15.2	2.4	2.1
191.93	196.85	HC22-1076	3012.22	2687.6	324.62	843.43	608	1285	146.5	559	89.1	159.5	11.2	64.2	8.23	40.6	7.32	17.05	2.07	12.5	1.95	3
196.85	201.77	HC22-1077	3409.67	3040	369.67	947.34	708	1440	162	630	100	181.5	11.65	75.1	9.54	45.8	8.12	19.25	2.29	14.15	2.27	3
201.77	206.69	HC22-1078	2763.17	2425	338.17	773.71	541	1160	130	509	85	170	10.85	64.2	8.21	41.5	7.64	17.75	2.2	13.6	2.22	2.9
206.69	211.61	HC22-1079	2937.95	2589.9	348.05	826.94	585	1230	139.5	544	91.4	172	11.1	68.6	8.54	43.5	7.99	18.55	2.19	13.5	2.08	3.2
211.61	216.54	HC22-1080	2784.53	2451	333.53	784.94	551	1165	131.5	518	85.5	165	10.65	64.6	8.44	41.5	7.44	18.1	2.14	13.55	2.11	2.8
216.54	221.46	HC22-1081	3159.99	2804.3	355.69	880.91	641	1335	151	582	95.3	176.5	11.9	69.9	9.11	43.5	8.01	18.6	2.3	13.7	2.17	2.7
221.46	226.38	HC22-1082	3577.54	3179	398.54	993.9	745	1500	170.5	655	108.5	197	12.75	79.3	10.1	49.8	8.96	20.9	2.54	14.8	2.39	3.7
226.38	231.30	HC22-1083	3490.26	3113	377.26	975.14	725	1470	166.5	648	103.5	183	12.6	77.5	9.94	47.2	8.31	20	2.36	14.2	2.15	3.7
231.30	236.22	HC22-1084	3467.85	3081	386.85	971.62	708	1460	165.5	645	102.5	188.5	12.1	78.8	9.92	48.7	8.48	20.4	2.45	15.15	2.35	3.5
236.22	241.14	HC22-1085	3781.81	3375.5	406.31	1057.25	784	1595	181	703	112.5	202	12.05	82.2	10.35	50.4	9.06	20.6	2.5	14.85	2.3	3.8
241.14	246.06	HC22-1086	3661.05	3293.5	367.55	1014.13	770	1565	173.5	677	108	179.5	11.9	75.5	9.53	46.1	8.23	18.85	2.33	13.55	2.06	3.6
246.06	250.98	HC22-1087	1950.85	1728.9	221.95	542.28	390	830	92.6	358	58.3	111	7.01	42.1	5.48	27.9	4.97	11.7	1.42	8.89	1.48	3.3
250.98	255.91	HC22-1088	3220.77	2844.4	376.37	904.42	641	1355	153.5	598	96.9	188.5	11.6	73.5	9.32	46.7	8.45	19.7	2.41	13.9	2.29	3
255.91	260.83	HC22-1090	3136.25	2777.4	358.85	883.91	617	1330	150	585	95.4	178	11.65	70.5	8.91	44.6	7.93	18.7	2.29	14.05	2.22	3
260.83	265.75	HC22-1091	3079.75	2721.8	357.95	868.83	606	1300	147	574	94.8	177	11.9	69.7	8.93	44.1	7.98	19.45	2.3	14.4	2.19	3.4
265.75	270.67	HC22-1092	3113.56	2767.7	345.86	869.39	624	1325	150	577	91.7	172	11.8	68.2	8.69	42	7.66	17.85	2.18	13.35	2.13	3.2
270.67	275.59	HC22-1093	3215.41	2867.5	347.91	910.23	645	1365	155	602	100.5	168.5	12.25	71.3	8.83	43.9	7.77	18.2	2.12	13	2.04	2.6
275.59	280.51	HC22-1094	3445.25	3085	360.25	973.33	690	1475	166	650	104	178.5	11.6	72.2	9.23	44.1	7.9	18.65	2.27	13.6	2.2	2.4
280.51	285.43	HC22-1095	3504.85	3128.5	376.35	982.3	712	1490	168	652	106.5	183.5	12.5	76.5	9.7	46.1	8.4	20.5	2.35	14.45	2.35	2.7

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM007	4,633,063.16	475,613.38	5,708.47	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-1096	3041.2	2698	343.2	856.55	602	1290	145.5	567	93.5	168	11.9	68.6	8.65	41.9	7.6	18.65	2.25	13.5	2.15	2.9
290.35	295.28	HC22-1097	3383.02	3015	368.02	954.59	680	1435	162	634	104	181.5	11.8	73.5	9.29	45.3	8.21	19.3	2.31	14.6	2.21	3.3
295.28	300.20	HC22-1098	1862.52	1638	224.52	528.82	368	775	89.3	348	57.7	111.5	7.02	42.6	5.72	28.1	5.05	12.25	1.51	9.27	1.5	3.3
300.20	305.12	HC22-1099	3316.86	2938.5	378.36	938.12	657	1400	159.5	620	102	186.5	12.1	75.4	9.52	47.1	8.3	19.85	2.36	14.85	2.38	4.2
305.12	310.04	HC22-1100	3162.35	2793.2	369.15	899.43	623	1325	151.5	595	98.7	183	11.95	72.3	9.23	45	8.12	20.2	2.45	14.5	2.4	2.7
310.04	314.96	HC22-1101	3313.39	2942	371.39	940.98	657	1400	159.5	626	99.5	183	12.45	72.7	9.28	46.7	8.35	19.35	2.31	15	2.25	2.2
314.96	319.88	HC22-1102	3487.13	3095	392.13	974.95	710	1470	165.5	643	106.5	191.5	12.4	77.6	10.25	49.7	8.75	21.1	2.56	15.8	2.47	3
319.88	324.80	HC22-1103	2924.86	2567.3	357.56	828.27	573	1220	138.5	546	89.8	178.5	11.55	67.2	8.77	45.2	8.14	19.15	2.39	14.35	2.31	3
324.80	329.72	HC22-1104	2999.96	2627.7	372.26	854.84	587	1245	143	561	91.7	178	12.3	73.1	9.64	49.5	8.41	21.2	2.69	15.1	2.32	3.7
329.72	334.65	HC22-1105	2775.61	2434.2	341.41	788.5	544	1155	133	517	85.2	162.5	11.85	67.5	8.9	44.4	7.8	19.4	2.54	14.3	2.22	3.8
334.65	339.57	HC22-1106	3032.3	2658.4	373.9	867.72	596	1255	144	567	96.4	177	12.15	74.8	9.92	50.4	8.47	20.9	2.75	15	2.51	3.9
339.57	344.49	HC22-1107	3337.61	2953.5	384.11	948.1	677	1390	159.5	624	103	181	12.7	77.4	10.2	51.4	8.81	21.8	2.7	15.75	2.35	3.4
344.49	349.41	HC22-1108	3257.04	2909.7	347.34	914.14	676	1375	156	604	98.7	161.5	12.3	73	9.24	46.2	7.8	18.9	2.51	13.8	2.09	3.6
349.41	354.33	HC22-1109	3539.55	3170	369.55	1004.1	730	1495	171.5	668	105.5	172	12.65	78.4	10	49.1	8.16	19.85	2.54	14.6	2.25	3.2
354.33	359.25	HC22-1111	3717.43	3329.5	387.93	1041.2	770	1580	178.5	691	110	180.5	12.85	82.9	10.5	51.2	8.61	21.3	2.63	15	2.44	2.8
359.25	364.17	HC22-1112	3652.37	3264	388.37	1040.2	751	1535	176.5	688	113.5	182	13.15	80.7	10.5	51.7	8.58	21.4	2.79	15.2	2.35	3.2
364.17	369.09	HC22-1113	3319.49	2962.2	357.29	934.3	684	1400	159.5	619	99.7	168.5	12.15	74.1	9.3	46.8	8.07	19.1	2.6	14.45	2.22	2.7
369.09	374.02	HC22-1114	2807.06	2461.8	345.26	805.38	551	1160	135	526	89.8	164.5	12.45	68.6	9.18	45.4	7.69	19.1	2.43	13.75	2.16	3.3
374.02	378.94	HC22-1115	3210.85	2846.8	364.05	908.36	656	1340	154	599	97.8	173.5	12.5	72.7	9.66	47.9	8.22	20	2.57	14.65	2.35	2.3
378.94	383.86	HC22-1116	3671.14	3269.5	401.64	1047.6	751	1535	178	693	112.5	189.5	12.7	82.4	10.7	53.4	9.15	22.4	2.86	15.95	2.58	3.4
383.86	388.78	HC22-1117	3362.15	2990	372.15	957.37	687	1405	162	633	103	175	12.15	76.6	9.87	49.5	8.45	20.7	2.63	14.8	2.45	2.5
388.78	393.70	HC22-1118	3553.06	3161.5	391.56	1015.65	729	1480	172	671	109.5	183.5	12.45	80.7	10.45	52.7	8.75	22.3	2.82	15.5	2.39	3.5
393.70	398.62	HC22-1119	3389.99	3021.5	368.49	961.1	699	1420	164	634	104.5	173	12.15	76.7	10.1	48.5	8.11	20.5	2.63	14.5	2.3	4.5
398.62	403.54	HC22-1120	3152.93	2797.9	355.03	896.88	633	1325	151.5	589	99.4	167	11.7	72.3	9.48	47.5	8.11	19.8	2.62	14.25	2.27	3.1
403.54	408.46	HC22-1121	3183.98	2837	346.98	909.04	653	1330	155.5	599	99.5	162.5	12.2	72	9.14	45.9	7.83	19	2.49	13.75	2.17	2.9
408.46	413.39	HC22-1122	3578.01	3188	390.01	1022.05	728	1500	173.5	677	109.5	184.5	12.9	79.8	10.35	51.7	8.73	21.3	2.77	15.65	2.31	4.2
413.39	418.31	HC22-1123	3443.94	3052.5	391.44	980.05	700	1435	165	645	107.5	183	12.8	80.4	10.65	51.9	8.97	21.9	2.84	16.5	2.48	3.9
418.31	423.23	HC22-1124	2944.91	2578.9	366.01	846.81	570	1220	140.5	554	94.4	174.5	12.05	72.7	9.71	48.2	8.16	20.7	2.56	15.05	2.38	3.6
423.23	428.15	HC22-1125	3582.7	3195.5	387.2	1009.9	728	1520	172	667	108.5	179.5	13.05	80.6	10.3	52.1	8.94	21.7	2.61	15.9	2.5	2.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM007	*4,633,063.16*	*475,613.38*	*5,708.47*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
428.15	433.07	HC22-1126	3392.41	3010.5	381.91	961	690	1420	162.5	635	103	180.5	12.55	78	10.1	50.4	8.71	20.9	2.7	15.55	2.5	3.3
433.07	437.99	HC22-1127	3017.28	2651.5	365.78	868.9	581	1260	145	569	96.5	173	12.3	73.4	9.6	48.8	8.32	20.5	2.64	14.9	2.32	3.2
437.99	442.91	HC22-1128	3529.79	3131.5	398.29	1007	714	1475	169	663	110.5	189	12.55	79.8	10.4	54.1	9.08	21.9	2.92	16.05	2.49	3.9
442.91	447.83	HC22-1130	3448.12	3058.5	389.62	981.1	699	1440	164	648	107.5	186.5	12.2	78	10.2	51.4	8.72	21.9	2.8	15.5	2.4	2.8
447.83	452.76	HC22-1131	3133.75	2777.9	355.85	872.97	647	1315	147.5	575	93.4	167.5	12.2	71.5	9.37	47.7	8.1	20.1	2.61	14.55	2.22	3.6
452.76	457.68	HC22-1132	3042.54	2691	351.54	874.06	598	1275	146	576	96	166.5	12.3	70.1	9.36	46.7	7.9	19.5	2.48	14.55	2.15	4
457.68	462.60	HC22-1133	3538.39	3159.5	378.89	1003.35	727	1490	172	662	108.5	177	12.8	78.2	10.15	50.7	8.67	21.1	2.66	15.35	2.26	3.6
462.60	467.52	HC22-1134	3486.16	3107	379.16	998.1	700	1470	167.5	659	110.5	177.5	12.75	78.3	10.1	51	8.8	21.1	2.69	14.6	2.32	3.1
467.52	472.44	HC22-1135	3690.66	3305.5	385.16	1045.8	757	1565	178.5	692	113	179	12.9	80.8	10.4	51.9	8.61	21.3	2.8	15.05	2.4	3.3
472.44	477.36	HC22-1136	3352.35	2999.5	352.85	961.77	673	1420	163	637	106.5	166	12.6	73	9.37	45.9	7.69	19.3	2.55	14.2	2.24	1.7
477.36	482.28	HC22-1137	3245.87	2894.5	351.37	932.47	653	1365	158.5	617	101	167	12.3	70.1	9.27	46.7	7.81	19.45	2.49	14.05	2.2	3.6
482.28	487.20	HC22-1138	3207.81	2858.5	349.31	916.55	648	1350	157.5	603	100	163	12.05	72.3	9.25	46.8	7.86	19.5	2.56	13.8	2.19	3.6
487.20	492.13	HC22-1139	3505.23	3118.5	386.73	1008.35	696	1475	170.5	668	109	183	13.2	78.6	10.05	50.8	8.64	21.7	2.74	15.55	2.45	3.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM008	*4,632,492.95*	*475,444.97*	*5,714.13*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*	*TREE*	*LREE*	*HREE*	*MREE*	*Light REE* *La*	*Ce*	*Pr*	*Nd*	*Sm*	*Heavy REE* *Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-1140	1027.4	822.7	204.7	305.77	173	372	45.5	196	36.2	108	7.47	32.3	4.27	23.8	4.58	11.5	1.58	9.63	1.57	31.2
4.92	9.84	HC22-1141	1068.41	834.5	233.91	333.88	166	368	47.3	212	41.2	124	7.75	35.3	4.78	28.6	5.28	13.15	1.76	11.35	1.94	37
9.84	14.76	HC22-1142	994.58	776.5	218.08	308.44	153.5	345	44.8	197	36.2	115.5	7.65	33.7	4.64	25.8	4.99	12.1	1.66	10.4	1.64	30.2
14.76	19.69	HC22-1143	945.35	725.6	219.75	300.72	136	319	42.7	192	35.9	117.5	8.35	33.4	4.62	25.5	4.73	11.9	1.62	10.3	1.83	29.6
19.69	24.61	HC22-1144	924.92	731.3	193.62	282.92	148.5	327	41.7	180.5	33.6	101.5	7.86	29.9	4.02	23.1	4.19	11.15	1.52	8.97	1.41	25
24.61	29.53	HC22-1145	943.98	745.3	198.68	293.25	149	331	42.1	188.5	34.7	105	8.38	29.7	4.25	23.7	4.36	11	1.46	9.31	1.52	28
29.53	34.45	HC22-1146	938.51	744.1	194.41	285.11	152	334	42.6	181.5	34	102.5	8.14	30.2	4.01	23	4.15	10.5	1.46	8.99	1.46	29.1
34.45	39.37	HC22-1147	904.99	715.2	189.79	282.81	140.5	318	42.1	179.5	35.1	99.4	8.23	29	3.91	22.2	4.22	10.6	1.44	9.19	1.6	24.5
39.37	44.29	HC22-1148	937.89	741.6	196.29	290.82	151	327	42	186	35.6	102.5	8.27	30.7	4.22	23	4.41	10.75	1.54	9.28	1.62	32.8
44.29	49.21	HC22-1150	911.44	711.6	199.84	290.75	137	311	41.4	186.5	35.7	106	8.64	29.8	4.05	23.1	4.43	11.3	1.5	9.34	1.68	26
49.21	54.13	HC22-1151	918.12	722	196.12	288.8	142.5	318	41.6	184	35.9	103	8.71	29.8	4.1	23.2	4.37	10.85	1.54	9.01	1.54	24.2
54.13	59.06	HC22-1152	953.88	758	195.88	296.64	152.5	336	43.3	191	35.2	103.5	7.84	29.9	4.14	23	4.22	10.95	1.48	9.34	1.51	24.6
59.06	63.98	HC22-1153	966.49	768	198.49	301.12	154	340	44	193.5	36.5	104	8.36	31.6	4.22	22.9	4.36	10.7	1.48	9.37	1.5	29.6
63.98	68.90	HC22-1154	953.39	763.9	189.49	294.39	156.5	340	43.4	190	34	98	7.86	29.8	3.99	23	4.18	10.6	1.46	9.14	1.46	29.3
68.90	73.82	HC22-1155	983.92	788.7	195.22	298.74	163.5	354	44.3	191.5	35.4	102	7.86	29.8	4.04	23.5	4.26	11.5	1.5	9.29	1.47	31.8
73.82	78.74	HC22-1156	943.14	741.8	201.34	293.97	147	329	42.4	188.5	34.9	107	7.72	30.4	4.17	24	4.41	10.9	1.5	9.7	1.54	25.8
78.74	83.66	HC22-1157	1042.85	838.7	204.15	316.16	174	376	46.9	204	37.8	108	8.5	30.9	4.26	23.2	4.43	11.5	1.66	9.98	1.72	29.8
83.66	88.58	HC22-1158	972.87	781.6	191.27	291.99	165	351	43.6	187.5	34.5	99.6	7.81	29.6	3.99	22.4	4.26	10.95	1.54	9.5	1.62	23.6
88.58	93.50	HC22-1159	960.7	770.5	190.2	290.41	159.5	346	43.8	186	35.2	101	8.01	27.8	3.91	21.5	4.11	10.9	1.52	9.75	1.7	21.4
93.50	98.43	HC22-1160	965.79	772.1	193.69	290.38	162	346	43.3	187	33.8	103	7.76	28.6	3.88	22.4	4.18	10.75	1.56	9.91	1.65	27.6
98.43	103.35	HC22-1161	1068.31	859.5	208.81	326.03	177	385	48.3	212	37.2	111.5	8.29	30	4.43	24.1	4.61	11.95	1.64	10.6	1.69	30.1
103.35	108.27	HC22-1162	1041.65	834.8	206.85	314.68	173	375	46.5	204	36.3	111	8.09	30.4	4.08	23.8	4.62	11.65	1.64	9.94	1.63	28.9
108.27	113.19	HC22-1163	962.15	772.7	189.45	296.66	158	345	44.4	190	35.3	99.4	8.06	28.1	4.16	22.8	4.17	10.75	1.51	9.01	1.49	25.3
113.19	118.11	HC22-1164	980.26	793.3	186.96	297.93	166	355	44.2	192	36.1	98.6	8.79	28.4	3.83	21.8	4.11	10.45	1.42	8.12	1.44	24.7
118.11	123.03	HC22-1165	739.63	558.7	180.93	245.53	100	238	32.9	156	31.8	95.8	8.91	26.9	3.83	21	3.98	10	1.34	7.88	1.29	19.2
123.03	127.95	HC22-1166	601.64	502.8	98.84	167.13	117.5	231	26.8	109.5	18	48.8	9.53	14.4	1.98	10.85	2.11	5.17	0.74	4.53	0.73	14.2
127.95	132.87	HC22-1167	880.29	728.6	151.69	261.59	159.5	328	40.5	170.5	30.1	77.3	9.32	23.8	3.19	17.3	3.35	8.32	1.06	6.99	1.06	20
132.87	137.80	HC22-1168	1261.46	1004.9	256.56	420.34	187	434	58	273	52.9	135.5	8.23	41.3	5.64	30.8	5.73	13.95	1.83	11.65	1.93	38.8
137.80	142.72	HC22-1169	1211.33	965.4	245.93	397.53	183.5	420	56.7	256	49.2	127	8.12	41.2	5.43	30.2	5.36	13.75	1.84	11.15	1.88	35.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM008	*4,632,492.95*	*475,444.97*	*5,714.13*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-1171	1153.92	934.8	219.12	363.74	185	417	53.3	236	43.5	117	6.62	34.1	4.64	26.3	4.71	12.05	1.72	10.4	1.58	29.1
147.64	152.56	HC22-1172	1194.2	963.4	230.8	381.35	190	424	55.1	248	46.3	123	7.57	36.6	4.75	27.2	5.11	12.5	1.7	10.7	1.67	34.2
152.56	157.48	HC22-1173	1113.41	897.6	215.81	355.04	174.5	399	51.9	229	43.2	111.5	8.77	34.4	4.74	26.2	4.78	12.15	1.63	9.97	1.67	30.3
157.48	162.40	HC22-1174	1094.91	887.3	207.61	342.12	181	393	49.8	223	40.5	110	7.62	32.3	4.32	24.5	4.48	11.6	1.51	9.75	1.53	27
162.40	167.32	HC22-1175	1387.37	1104.3	283.07	458.89	202	483	64.9	298	56.4	149	8.31	46.2	6.09	33.5	6.41	15.9	2.14	13.3	2.22	36.7
167.32	172.24	HC22-1176	1175.06	933.4	241.66	379.65	178	409	55.1	243	48.3	126.5	7.63	38.9	5.35	27.9	5.44	13.95	1.88	12.2	1.91	30.7
172.24	177.17	HC22-1177	1022.53	799.9	222.63	327.05	150.5	353	47.2	208	41.2	116.5	8.75	34.6	4.75	25.9	4.77	12.9	1.68	10.95	1.83	26.3
177.17	182.09	HC22-1178	1000.63	782.9	217.73	314.66	150	347	46.3	200	39.6	118	7.45	32.5	4.66	24.1	4.85	12.35	1.68	10.6	1.54	25.8
182.09	187.01	HC22-1179	999.18	788.9	210.28	316.1	153.5	348	47	201	39.4	112.5	7.89	32.2	4.5	24.2	4.5	11.3	1.61	10	1.58	24.2
187.01	191.93	HC22-1180	966.74	776	190.74	297.48	159	346	45.4	189	36.6	101.5	7.2	28.9	4.18	22.3	4.05	10.85	1.5	8.87	1.39	20.4
191.93	196.85	HC22-1181	882.63	684	198.63	276.37	133	301	40.4	174	35.6	107.5	6.87	29.6	4.17	22.2	4.31	11.4	1.52	9.51	1.55	19.6
196.85	201.77	HC22-1182	847.68	671.3	176.38	258.21	136	301	38.4	164	31.9	94.1	6	27.2	3.71	20.2	3.82	10.25	1.33	8.43	1.34	16.9
201.77	206.69	HC22-1183	1093.22	852.1	241.12	349.32	162	373	50.9	222	44.2	128	8.47	38.6	5.32	26.9	5.31	13.65	1.8	11.35	1.72	25.2
206.69	211.61	HC22-1184	847.5	669.9	177.6	263.45	134.5	296	38.7	167.5	33.2	93.6	8.37	27.1	3.85	20.2	3.89	9.94	1.32	8.11	1.22	19.4
211.61	216.54	HC22-1185	957.64	759.1	198.54	292.62	155	338	43.4	187.5	35.2	106	8.44	30.1	4.22	22.3	4.21	11.3	1.55	9.05	1.37	20.6
216.54	221.46	HC22-1186	975.04	766.4	208.64	305.76	151.5	337	43.8	196.5	37.6	112	8.3	31.4	4.56	23.3	4.48	11.75	1.52	9.69	1.64	23.2
221.46	226.38	HC22-1187	1004.38	763.2	241.18	312.33	146.5	336	45.1	196	39.6	132.5	8.55	35.1	5.03	26.6	5.2	13.55	1.85	11.05	1.75	30.3
226.38	231.30	HC22-1188	1207.83	953.3	254.53	377.11	188.5	422	55.2	241	46.6	137	8.81	39.3	5.51	28.8	5.54	14.3	1.94	11.35	1.98	30.7
231.30	236.22	HC22-1190	927	725.1	201.9	285.5	148.5	318	41.7	181.5	35.4	108	8.33	30.5	4.4	22.5	4.56	11.25	1.54	9.27	1.55	26.3
236.22	241.14	HC22-1191	869.95	692.3	177.65	258.29	146.5	310	39	165.5	31.3	95.5	8.62	26.3	3.54	18.95	3.72	10	1.3	8.35	1.37	20
241.14	246.06	HC22-1192	800.98	616.8	184.18	250.45	121	270	35.3	160	30.5	99.3	8.18	26	3.75	20.9	3.91	10.35	1.47	8.91	1.41	16.7
246.06	250.98	HC22-1193	851.09	669.8	181.29	255.15	139.5	299	38.3	163	30	97.4	8.16	26.5	3.75	20.1	3.87	10	1.37	8.82	1.32	19.6
250.98	255.91	HC22-1194	873.49	685.7	187.79	265.93	140	304	39.5	170	32.2	101.5	8.55	27.7	3.73	20.5	3.88	10.4	1.43	8.74	1.36	18.6
255.91	260.83	HC22-1195	606.52	475.7	130.82	178.51	100	214	27.5	113	21.2	71.9	5.23	18.15	2.56	14.25	2.88	7.36	1.07	6.39	1.03	9.9
260.83	265.75	HC22-1196	868.76	694.2	174.56	254.24	150	313	39.3	162.5	29.4	93.6	7.36	25.9	3.54	19.5	3.76	9.82	1.36	8.4	1.32	15.6
265.75	270.67	HC22-1197	717.54	566.1	151.44	213.08	120	252	32.5	136.5	25.1	80.8	8.66	21.4	3.08	15.9	3.19	8.35	1.2	7.59	1.27	13.8
270.67	275.59	HC22-1198	733.33	593.1	140.23	205.51	136	269	32.3	131.5	24.3	75.5	8.44	19.55	2.81	14.6	2.79	7.56	1.09	6.88	1.01	12.1
275.59	280.51	HC22-1199	664.33	494.7	169.63	196.43	99.9	219	28.8	123.5	23.5	95.4	8.23	20.7	3.13	17.5	3.54	9.73	1.38	8.75	1.27	12
280.51	285.43	HC22-1200	552.52	404.5	148.02	163.58	81.4	177.5	23.1	102	20.5	82.9	7.56	18.4	2.83	15.15	3.2	8.54	1.18	7.21	1.05	12.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM008	*4,632,492.95*	*475,444.97*	*5,714.13*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-1201	670.89	514.4	156.49	206.81	103.5	224	29.5	132	25.4	84.7	8.05	21.3	3.11	16.8	3.3	8.76	1.21	8.02	1.24	22.2
290.35	295.28	HC22-1202	943.94	731.9	212.04	298.7	139.5	322	42.5	190.5	37.4	113	7.9	32.6	4.7	23.6	4.63	11.95	1.58	10.4	1.68	38.1
295.28	300.20	HC22-1203	948.42	751.6	196.82	281.48	158	337	42.1	180	34.5	109.5	7.47	27.2	3.98	20.9	4.04	11	1.58	9.63	1.52	25.4
300.20	305.12	HC22-1204	683.01	539.2	143.81	201.04	115	242	30.9	126.5	24.8	77	5.88	21.3	2.94	15.9	3	8.16	1.1	7.33	1.2	18.2
305.12	310.04	HC22-1205	354.76	301.55	53.21	96.73	71	141	15.9	62.8	10.85	29.5	1.79	7.61	1.13	6.05	1.06	2.73	0.4	2.59	0.35	6.1
310.04	314.96	HC22-1206	201.91	175.24	26.67	48.01	45.2	84.9	8.95	31.8	4.39	15.9	0.74	3.46	0.46	2.41	0.53	1.4	0.21	1.35	0.21	5.2
314.96	319.88	HC22-1207	288.18	258.79	29.39	69.05	67.9	125.5	13.25	45.2	6.94	16.1	1.33	4.56	0.61	3.05	0.54	1.43	0.25	1.33	0.19	5
319.88	324.80	HC22-1208	1115.26	873.2	242.06	362.42	165.5	379	51.8	232	44.9	127.5	8.1	39.3	5.42	28.3	5.42	13.6	1.84	10.85	1.73	34.7
324.80	329.72	HC22-1210	1100.85	864.6	236.25	354.86	166	376	51	227	44.6	125	8.16	37.7	5.26	27	5.27	13.55	1.75	10.85	1.71	37.9
329.72	334.65	HC22-1211	1154.72	904.5	250.22	375.97	170	393	53.4	241	47.1	133.5	7.67	40	5.57	28.9	5.4	14.2	1.89	11.15	1.94	39.6
334.65	339.57	HC22-1212	1106.23	876.3	229.93	346.45	159.5	404	49.1	217	46.7	114	7.87	40.8	5.45	28.2	5.53	13.15	1.77	11.3	1.86	34.8
339.57	344.49	HC22-1213	1039.67	832	207.67	319.6	156	386	46.1	201	42.9	104.5	7.83	35.5	4.6	25	4.82	12	1.58	10.25	1.59	33.1
344.49	349.41	HC22-1214	968.15	773.8	194.35	295.42	146	360	42.5	187	38.3	97.1	8.41	33.5	4.32	23.3	4.46	10.95	1.52	9.37	1.42	29.9
349.41	354.33	HC22-1215	863.04	691.8	171.24	260.3	135.5	320	38.4	164	33.9	86.2	7.99	28.3	3.8	20.2	3.77	10.1	1.3	8.3	1.28	31.2
354.33	359.25	HC22-1216	823.55	651.6	171.95	256.79	129	290	37.5	161	34.1	86.4	8	28.1	3.89	20.3	3.9	9.84	1.32	8.86	1.34	29.4
359.25	364.17	HC22-1217	867.85	689.9	177.95	266.28	133	316	38.8	168	34.1	87.3	8.84	30.3	4.08	21.3	4.01	10.6	1.35	8.79	1.38	28.8
364.17	369.09	HC22-1218	861.92	683.2	178.72	265.2	131	312	38.2	166.5	35.5	88.3	8.4	30.7	4	21	4.17	10.45	1.38	8.92	1.4	27.4
369.09	374.02	HC22-1219	832.38	662.5	169.88	258.48	129	299	37.6	163	33.9	83.9	8.98	28.5	3.78	20.2	3.96	9.84	1.28	8.18	1.26	26.4
374.02	378.94	HC22-1220	1315.84	1045.7	270.14	426.01	181	478	59.9	271	55.8	135	7.54	49.1	6.51	32.8	6.35	15.6	2.12	12.95	2.17	41.1
378.94	383.86	HC22-1221	1179.22	941.7	237.52	372.93	169.5	434	52.7	236	49.5	119	7.93	42	5.53	29.2	5.45	13.4	1.74	11.45	1.82	36.7
383.86	388.78	HC22-1222	932.46	744.5	187.96	282.15	141	347	40.8	178	37.7	96	7.95	30.8	4.15	21.5	4.28	10.85	1.44	9.53	1.46	28
388.78	393.70	HC22-1223	764.44	603.6	160.84	231.81	122	272	33.9	145.5	30.2	80.5	8.44	26.1	3.46	18.75	3.67	9.6	1.28	7.79	1.25	24.4
393.70	398.62	HC22-1224	717.77	561.6	156.17	219.19	113	251	31.7	137	28.9	79.1	7.96	24.7	3.39	18.2	3.57	8.95	1.25	7.73	1.32	22.6
398.62	403.54	HC22-1225	676.18	524.8	151.38	211.14	102	232	30.1	132.5	28.2	77	7.94	23.9	3.14	17.2	3.46	9.07	1.19	7.3	1.18	23.6
403.54	408.46	HC22-1226	575.15	441.4	133.75	178.92	85.8	195.5	25.7	110	24.4	65.8	8.3	21.6	2.97	15.85	3.04	7.9	0.98	6.31	1	20.2
408.46	413.39	HC22-1227	511.68	391.8	119.88	149.41	84.4	174.5	21.6	92	19.3	60.7	6.86	17.75	2.61	13.9	2.78	7.6	0.96	5.82	0.9	17.8
413.39	418.31	HC22-1228	576.13	459.6	116.53	160.32	103	212	24.7	99.5	20.4	61.2	4.27	17.3	2.37	13.35	2.66	7.14	0.95	6.36	0.93	17.6
418.31	423.23	HC22-1229	475.73	355.75	119.98	138.21	73.4	159.5	19.95	84.7	18.2	62.9	7.2	16.25	2.26	13.1	2.63	7.23	1	6.46	0.95	14.8
423.23	428.15	HC22-1231	611.87	455.9	155.97	177.74	94.5	204	25.9	108	23.5	82.6	7.46	21.8	3.19	17.15	3.61	9.84	1.26	7.87	1.19	15

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM008	4,632,492.95	475,444.97	5,714.13	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
428.15	433.07	HC22-1232	493.14	377.95	115.19	138.76	81.5	172.5	20.7	85.5	17.75	60.4	6.82	15.75	2.36	12.45	2.58	6.99	0.92	6.06	0.86	14.4
433.07	437.99	HC22-1233	613.91	499.7	114.21	166.23	115	234	26.6	103.5	20.6	58.6	5.71	17.25	2.43	13.1	2.55	6.79	0.89	6.01	0.88	14.2
437.99	442.91	HC22-1234	416.88	317.45	99.43	123.09	64.8	142	18.05	76.7	15.9	50.2	7.46	14.35	1.99	10.45	2.15	5.89	0.81	5.33	0.8	16.2
442.91	447.83	HC22-1235	429.36	319.75	109.61	126.98	65.1	142	17.95	77.7	17	56.6	7.05	14.95	2.18	12.15	2.45	6.58	0.91	5.83	0.91	16.8
447.83	452.76	HC22-1236	315.32	225.3	90.02	86.72	49.2	101.5	12.25	50.9	11.45	47.6	4.32	11.8	1.77	10.35	2.08	5.67	0.81	4.91	0.71	16.6
452.76	457.68	HC22-1237	255.69	181.56	74.13	67.88	40.9	82.1	9.77	40	8.79	40.8	2.39	9.48	1.37	7.95	1.75	4.81	0.68	4.28	0.62	15.6
457.68	462.60	HC22-1238	463.92	317.1	146.82	134.44	63.1	139	17.75	78.1	19.15	79.7	6.05	18.5	2.79	16.65	3.4	9.45	1.28	7.84	1.16	20.2
462.60	467.52	HC22-1239	268.6	192.92	75.68	73.79	42.5	86.4	10.35	43.7	9.97	39.8	3.71	9.88	1.44	8.33	1.78	5.05	0.65	4.32	0.72	16
467.52	472.44	HC22-1240	449.01	316.75	132.26	135.13	60.9	138	18	80.4	19.45	70.1	5.71	18.3	2.63	14.65	3.18	8.22	1.1	7.35	1.02	22.7
472.44	477.36	HC22-1241	826.11	642.5	183.61	265.88	120	283	37.4	167.5	34.6	91.6	6.58	30.9	4.18	22.2	4.34	11.4	1.48	9.4	1.53	35.1
477.36	482.28	HC22-1242	797.7	626	171.7	252.57	119.5	278	36.2	159.5	32.8	86.9	6.36	28.4	3.87	20.2	4	10.05	1.4	9.11	1.41	36.1
482.28	487.20	HC22-1243	594.54	466.5	128.04	178.21	94.8	211	25.9	111.5	23.3	63.1	8.12	20.2	2.71	14.8	2.88	7.7	1	6.47	1.06	22.9
487.20	492.13	HC22-1244	650.11	521.2	128.91	192.41	110	236	29.7	121	24.5	66.4	7.29	19.2	2.76	14.45	2.83	7.3	1.02	6.57	1.09	22.3

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM009	*4,632,309.39*	*475,577.79*	*5,762.00*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-1245	1249.03	1064.4	184.63	348.48	230	513	57.4	223	41	95.5	6.14	30.4	4.38	22.7	4.36	10.15	1.35	8.36	1.29	9.4
4.92	9.84	HC22-1246	1484.32	1281.4	202.92	405.69	278	627	68.4	261	47	104	6.79	35.1	4.69	24.6	4.73	11.05	1.45	8.97	1.54	9.3
9.84	14.76	HC22-1247	1129.41	967.8	161.61	317.73	209	464	52.8	205	37	81.9	6.34	28.5	3.83	19.1	3.64	8.5	1.24	7.41	1.15	8.7
14.76	19.69	HC22-1248	922.07	776.9	145.17	261.83	167.5	368	43.1	167	31.3	74.3	5.92	23.8	3.33	17.1	3.18	8.03	1.14	7.24	1.13	9.9
19.69	24.61	HC22-1250	991.95	815.4	176.55	288.51	170.5	382	44.9	181.5	36.5	88.3	7.79	29.8	4.01	21.6	4.1	9.62	1.35	8.63	1.35	9.4
24.61	29.53	HC22-1251	2460.24	2228.3	231.94	681.6	526	1055	120.5	454	72.8	109.5	9.36	48.4	5.9	28.4	5.23	11.95	1.55	9.92	1.73	11.6
29.53	34.45	HC22-1252	3359.35	3113.5	245.85	913.8	752	1485	167.5	616	93	111	8.94	57.8	6.6	30.7	5.27	12	1.67	10.25	1.62	6.7
34.45	39.37	HC22-1253	2962.18	2746.1	216.08	807.42	666	1305	148	545	82.1	98.2	7.66	50.7	5.82	26.5	4.62	10.85	1.44	8.77	1.52	13.6
39.37	44.29	HC22-1254	2778.88	2574.1	204.78	747.86	622	1235	138	504	75.1	92.1	9.46	47.1	5.46	25.3	4.29	9.79	1.41	8.48	1.39	9.2
44.29	49.21	HC22-1255	941.08	797.5	143.58	269.86	174	374	43.9	173	32.6	70.3	7.35	26	3.36	17	3.18	7.42	1	6.9	1.07	11.2
49.21	54.13	HC22-1256	906.84	770.8	136.04	257.74	169	363	42.3	165	31.5	68.4	7.17	22.7	3.09	15.85	3	7.19	1.02	6.54	1.08	9.1
54.13	59.06	HC22-1257	1417.41	1218.6	198.81	414.95	262	570	67.3	269	50.3	97.3	9.3	36.4	4.75	23.6	4.44	10.95	1.47	9.11	1.49	12.7
59.06	63.98	HC22-1258	2512.21	2256.7	255.51	705.41	524	1065	123	468	76.7	121.5	10.1	52.5	6.41	31.3	5.81	13.2	1.73	11	1.96	12.9
63.98	68.90	HC22-1259	2505.99	2269.4	236.59	699.32	530	1075	123	466	75.4	112.5	9.69	48.7	6.12	28.8	5.3	11.95	1.68	10.2	1.65	12
68.90	73.82	HC22-1260	2552.33	2299.7	252.63	711.1	545	1080	124.5	474	76.2	121.5	9.73	51.5	6.2	30.2	5.54	13.3	1.82	11	1.84	11.1
73.82	78.74	HC22-1261	2510.64	2265.9	244.74	700.41	527	1075	123.5	465	75.4	117	9.02	49.9	6.11	30.4	5.48	12.65	1.74	10.7	1.74	10.1
78.74	83.66	HC22-1262	2863.34	2591.7	271.64	802.24	610	1220	141.5	535	85.2	128.5	9.7	57	7.04	33.5	6.03	13.95	1.95	12	1.97	13
83.66	88.58	HC22-1263	2962.69	2691.3	271.39	825.19	636	1270	145.5	553	86.8	128.5	9.9	56.9	6.79	33.1	5.95	14.25	1.94	12.1	1.96	13.6
88.58	93.50	HC22-1264	2721.14	2456.3	264.84	751.61	573	1170	133	499	81.3	127.5	9.83	53.7	6.51	31.8	5.79	13.9	1.96	11.85	2	11.8
93.50	98.43	HC22-1265	2903	2630.5	272.5	806.29	619	1245	143	538	85.5	131	9.85	56.3	6.79	33	5.95	14.25	1.87	11.6	1.89	11.1
98.43	103.35	HC22-1266	2836.22	2568.8	267.42	782.45	601	1225	140	519	83.8	127.5	9.81	55.1	6.85	32.8	5.87	13.95	1.88	11.8	1.86	11.8
103.35	108.27	HC22-1267	3096.2	2823.1	273.1	859.6	654	1350	154.5	574	90.6	127.5	10.35	58.3	7.1	33.4	5.93	14.3	1.94	12.3	1.98	11.8
108.27	113.19	HC22-1268	2961.42	2682.7	278.72	821.97	642	1260	145.5	546	89.2	133.5	10.2	58.1	6.97	34.3	6.03	14.4	1.94	11.4	1.88	13.2
113.19	118.11	HC22-1270	2977.27	2696.8	280.47	834.06	639	1265	146.5	557	89.3	133.5	10.1	59.1	7.16	34.1	6.23	14.5	1.97	11.85	1.96	12.7
118.11	123.03	HC22-1271	2996.11	2711.6	284.51	838.13	630	1285	146.5	560	90.1	134	10.65	60.7	7.33	34.2	6.35	15.1	1.97	12.2	2.01	11.6
123.03	127.95	HC22-1272	3039.8	2757.5	282.3	841.82	642	1315	149	562	89.5	135	10.05	59	7.12	34.2	6.24	14.4	1.98	12.4	1.91	11.4
127.95	132.87	HC22-1273	2608.92	2372.2	236.72	724.39	558	1125	128	485	76.2	111.5	8.72	49.8	6.09	29.1	5.16	12.5	1.62	10.55	1.68	10.8
132.87	137.80	HC22-1274	3076.2	2801.1	275.1	848.44	664	1330	151	567	89.1	130.5	10.25	57.5	7.14	34.2	5.98	13.75	1.87	12.1	1.81	11.5
137.80	142.72	HC22-1275	3158.5	2866.9	291.6	879.54	676	1355	155.5	585	95.4	138.5	10.2	61.5	7.44	36.2	6.31	15.25	1.98	12.25	1.97	12.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM009	*4,632,309.39*	*475,577.79*	*5,762.00*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
142.72	147.64	HC22-1276	3133.42	2840.3	293.12	872.46	667	1345	154.5	581	92.8	138	10.45	62.6	7.66	36.5	6.51	14.95	2.02	12.45	1.98	11.4
147.64	152.56	HC22-1277	2858.92	2597.3	261.62	784.88	621	1230	139	524	83.3	122.5	9.9	56.3	6.68	31.9	5.74	13.45	1.84	11.45	1.86	11
152.56	157.48	HC22-1278	2964.81	2690.4	274.41	811.93	644	1275	145	540	86.4	130.5	10.4	57.7	6.93	33.6	6	14.15	1.92	11.35	1.86	12.5
157.48	162.40	HC22-1279	3094.98	2824	270.98	855.49	669	1340	152.5	572	90.5	125.5	10.55	58.8	6.99	33.5	5.98	14.25	1.88	11.6	1.93	11.1
162.40	167.32	HC22-1280	3005.2	2732.3	272.9	828.44	682	1265	144	554	87.3	120	11.45	61.3	7.64	35.5	5.72	15.45	1.96	11.9	1.98	15.4
167.32	172.24	HC22-1281	3294.41	2991.7	302.71	909.94	744	1385	157	610	95.7	135	12.1	67.3	8.14	39.1	6.34	17.1	2.15	13.35	2.13	16.2
172.24	177.17	HC22-1282	3048.26	2761.9	286.36	850.61	681	1275	146.5	570	89.4	130	11.1	61.9	7.81	36.9	5.94	16.35	2.01	12.4	1.95	15
177.17	182.09	HC22-1283	2963.38	2680.7	282.68	831.73	663	1230	144	555	88.7	128	11.5	61.5	7.73	36.3	6.04	15.55	2.01	12.05	2	14.9
182.09	187.01	HC22-1284	2831.73	2563.9	267.83	785.81	634	1185	137.5	525	82.4	122.5	11.2	57.3	7.21	33.7	5.72	15.2	1.86	11.3	1.84	15.2
187.01	191.93	HC22-1285	2944.16	2672.2	271.96	812.94	666	1235	142.5	542	86.7	123.5	10.95	58.9	7.34	34.4	5.85	15.4	1.94	11.8	1.88	14.2
191.93	196.85	HC22-1286	2603.48	2356.8	246.68	715.71	579	1100	124	477	76.8	113.5	9.7	52.1	6.41	31.5	5.25	13.9	1.72	10.9	1.7	12.9
196.85	201.77	HC22-1287	2861.35	2593	268.35	792.44	637	1205	137	528	86	122.5	11.4	56.8	7.14	34.3	5.63	14.95	1.89	11.8	1.94	14.1
201.77	206.69	HC22-1288	2711.85	2463.6	248.25	739.52	612	1150	129.5	494	78.1	114	10.6	52.4	6.62	31.3	5.18	13.65	1.7	11.1	1.7	13.8
206.69	211.61	HC22-1289	2805.89	2544.7	261.19	778.31	627	1180	135	520	82.7	118	11	56.3	6.91	33.7	5.47	14.6	1.93	11.4	1.88	13.3
211.61	216.54	HC22-1291	2829.4	2558.2	271.2	786.17	624	1190	134.5	526	83.7	123	11.55	58	7.27	34.7	5.63	15.4	1.9	11.9	1.85	15.2
216.54	221.46	HC22-1292	2777.09	2509.1	267.99	775.11	615	1160	132.5	518	83.6	123.5	10.8	57	7.11	33.9	5.74	14.9	1.85	11.45	1.74	13.8
221.46	226.38	HC22-1293	2658.35	2397	261.35	739.48	588	1110	127.5	492	79.5	118	10.85	56.2	6.98	33.5	5.56	14.95	1.82	11.65	1.84	13.6
226.38	231.30	HC22-1294	2643.95	2389.1	254.85	733.96	584	1110	127	489	79.1	117	11.25	53.5	6.46	32.4	5.37	14.25	1.76	11.1	1.76	14.5
231.30	236.22	HC22-1295	2947.22	2656.8	290.42	815.21	651	1235	141	541	88.8	132.5	11.95	62.6	7.81	36.6	6.08	16.4	2.02	12.45	2.01	14
236.22	241.14	HC22-1296	2794.18	2517.7	276.48	781.21	614	1165	132	523	83.7	128	11.15	57.8	7.31	35.2	5.87	15.05	2	12.2	1.9	15
241.14	246.06	HC22-1297	2945.15	2640.3	304.85	819.77	642	1225	141.5	543	88.8	144	11.3	61	7.87	38.6	6.5	17.75	2.24	13.45	2.14	14
246.06	250.98	HC22-1298	3517.52	3209.5	308.02	967.36	790	1500	169.5	648	102	139	11.6	68	8.36	39.5	6.59	17.25	2.17	13.4	2.15	15.6
250.98	255.91	HC22-1299	2465.04	2282.2	182.84	655.74	579	1075	119	443	66.2	80.8	8.43	41.2	4.84	22.7	3.71	9.96	1.32	8.5	1.38	11.6
255.91	260.83	HC22-1300	2838.58	2618.8	219.78	769.35	658	1225	139	519	77.8	96.6	11.1	49.3	5.95	27.6	4.6	11.8	1.6	9.71	1.52	12.8
260.83	265.75	HC22-1301	2485.99	2291.1	194.89	669.22	571	1080	120.5	452	67.6	84.3	11.2	44.8	5.22	23.9	3.94	10.3	1.32	8.53	1.38	11.9
265.75	270.67	HC22-1302	1958.56	1793.8	164.76	524.07	448	846	93.1	354	52.7	72	10.55	35.8	4.32	19.95	3.22	9.09	1.19	7.48	1.16	10.9
270.67	275.59	HC22-1303	1547.12	1388.9	158.22	424.45	321	666	73.7	284	44.2	71.8	10.85	31.1	3.95	18.6	3.23	8.94	1.2	7.35	1.2	10.2
275.59	280.51	HC22-1304	2167.79	1938.2	229.59	603.99	470	899	102.5	400	66.7	106	11.4	46.1	5.89	28.9	4.86	12.7	1.7	10.5	1.54	13
280.51	285.43	HC22-1305	2778.65	2501.3	277.35	766.67	612	1165	133	510	81.3	129	11.35	57	7.17	35.2	5.85	15.65	1.97	12.3	1.86	14.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM009	*4,632,309.39*	*475,577.79*	*5,762.00*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*									*Heavy REE*					
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-1306	2962.76	2698.8	263.96	810.83	662	1265	145	545	81.8	125.5	11.1	53.4	6.83	32.2	5.86	14	1.84	11.4	1.83	10.3
290.35	295.28	HC22-1307	2871.28	2604.8	266.48	793.26	635	1215	142	534	78.8	128	10.9	54.6	6.66	31.8	5.76	13.85	1.78	11.3	1.83	10
295.28	300.20	HC22-1308	2970.21	2683.8	286.41	829.34	651	1245	148	556	83.8	136.5	11.05	58.3	7.14	34.4	6.37	15.9	1.9	12.85	2	10.6
300.20	305.12	HC22-1310	3151.98	2853.2	298.78	874.16	708	1315	156	584	90.2	142.5	11.9	60.7	7.46	36.5	6.59	16.25	2.01	12.8	2.07	12.1
305.12	310.04	HC22-1311	2833.74	2575.4	258.34	787.7	626	1200	141	530	78.4	122	10.85	53	6.5	31.8	5.63	13.9	1.74	11.25	1.67	10.7
310.04	314.96	HC22-1312	2914.53	2638	276.53	801.82	657	1220	143	537	81	132	11.4	55.7	6.92	33.9	6.18	15.1	1.8	11.65	1.88	11.4
314.96	319.88	HC22-1313	2912.16	2641.6	270.56	806.18	656	1220	142.5	543	80.1	128.5	10.95	55.7	6.78	33.8	5.92	14.1	1.84	11.2	1.77	10.9
319.88	324.80	HC22-1314	2605.65	2363.3	242.35	721.17	573	1105	129	484	72.3	115	10.05	49.3	6.17	29.7	5.47	13.05	1.58	10.25	1.78	8.9
324.80	329.72	HC22-1315	2807.31	2562.5	244.81	775.8	633	1190	138.5	523	78	113.5	10.8	52.6	6.3	30	5.28	12.6	1.65	10.4	1.68	11
329.72	334.65	HC22-1316	2681.58	2452.6	228.98	735.03	606	1145	132.5	496	73.1	107	10.85	48.1	5.83	27.6	4.94	11.8	1.45	9.83	1.58	9.6
334.65	339.57	HC22-1317	2572.35	2355.7	216.65	705.02	582	1100	127.5	477	69.2	101	9.75	46.1	5.42	25.9	4.59	11.8	1.44	9.27	1.38	9.5
339.57	344.49	HC22-1318	2268.56	2063.9	204.66	624.42	508	961	111.5	422	61.4	95.8	10.1	41.6	5.12	24.4	4.45	11.05	1.42	9.15	1.57	9.7
344.49	349.41	HC22-1319	2347.98	2155.8	192.18	633.69	535	1015	118	427	60.8	88.4	9.79	41.1	4.79	23.1	4.03	10.35	1.28	8.1	1.24	8.2
349.41	354.33	HC22-1320	2318.35	2128.9	189.45	628.21	529	999	115.5	425	60.4	86.3	10.2	40.5	4.81	22.5	3.94	10.55	1.22	8.07	1.36	8.2
354.33	359.25	HC22-1321	2842.32	2612.4	229.92	771.19	670	1205	141	524	72.4	105	11.15	50	5.89	27.9	4.88	12.2	1.53	9.77	1.6	8.9
359.25	364.17	HC22-1322	2630.63	2415	215.63	721.77	595	1130	132	488	70	98.3	10.95	46.6	5.57	26.2	4.62	11.5	1.42	9.07	1.4	9.2
364.17	369.09	HC22-1323	2469.05	2262.6	206.45	680.11	553	1060	121.5	462	66.1	95.1	10.4	43.3	5.31	25.2	4.45	10.95	1.37	8.92	1.45	9.1
369.09	374.02	HC22-1324	2154.72	1959.8	194.92	591.86	479	917	107.5	397	59.3	90.9	10.45	39.6	4.86	23.2	4.23	10.65	1.34	8.26	1.43	7.3
374.02	378.94	HC22-1325	2295.51	2095.8	199.71	630.46	516	979	114	424	62.8	90.5	10.55	42.6	4.96	24.7	4.31	10.6	1.34	8.75	1.4	8.2
378.94	383.86	HC22-1326	2031.8	1867.5	164.3	548.17	464	879	101	371	52.5	75.9	9.21	34.1	4.07	19.6	3.58	8.56	1.1	7.05	1.13	7.3
383.86	388.78	HC22-1327	1428.01	1298	130.01	391.96	294	630	67.7	268	38.3	61.8	8.37	24.6	3.06	14.9	2.65	6.89	0.89	5.92	0.93	8.1
388.78	393.70	HC22-1328	1726.66	1515.2	211.46	495.81	327	722	80.8	331	54.4	106.5	9.02	38	4.81	24.8	4.56	11.4	1.59	9.19	1.59	10.7
393.70	398.62	HC22-1330	3547.83	3179	368.83	1024.11	723	1485	169	694	108	181	10.4	74.9	9.01	44.1	8.03	20.1	2.6	16.1	2.59	18.8
398.62	403.54	HC22-1331	2564	2355.3	208.7	703.66	555	1125	122.5	484	68.8	99.8	10.1	42.9	4.86	23.5	4.34	10.9	1.45	9.37	1.48	12.4
403.54	408.46	HC22-1332	2579.28	2307.5	271.78	717.06	523	1105	122	484	73.5	138.5	9.21	49.8	6.26	31.3	5.82	14.45	2.01	12.55	1.88	13.4
408.46	413.39	HC22-1333	2411.76	2178.3	233.46	666.3	494	1050	115	453	66.3	117	9.82	43	5.4	26.6	4.93	12.85	1.75	10.45	1.66	11.5
413.39	418.31	HC22-1334	1886.81	1684.4	202.41	519.57	379	814	88.3	350	53.1	101	9.03	36.8	4.67	23.5	4.32	11.2	1.47	8.96	1.46	10.6
418.31	423.23	HC22-1335	3937.89	3469.5	468.39	1151.95	770	1615	187.5	772	125	237	9.19	89.7	11.05	56.4	10.5	26.3	3.45	21.3	3.5	29.4
423.23	428.15	HC22-1336	3033.34	2673.7	359.64	873.93	581	1270	144	584	94.7	181.5	9.82	68	8.23	43	7.8	19.6	2.57	16.45	2.67	18.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM009	4,632,309.39	475,577.79	5,762.00	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-1337	3338.57	2927.5	411.07	954.24	662	1370	155.5	634	106	211	8.83	76.2	9.64	49.1	9.1	22.3	3.08	18.65	3.17	21.2
433.07	437.99	HC22-1338	2390.58	2129.9	260.68	667.41	479	1020	113.5	448	69.4	132	8.37	48.1	6.21	30.3	5.69	14.3	1.93	11.95	1.83	12.9
437.99	442.91	HC22-1339	2248.5	1940.8	307.7	624.44	427	933	102	410	68.8	162.5	7.29	51.7	6.94	36.7	6.91	17.15	2.24	14.1	2.17	14.4
442.91	447.83	HC22-1340	1940.66	1707.5	233.16	538.2	383	819	90.7	357	57.8	120	8.68	40.8	5.3	27.4	4.85	12.8	1.67	10.1	1.56	12.2
447.83	452.76	HC22-1341	2096.98	1910.3	186.68	582.2	432	922	100.5	398	57.8	88.1	10.5	38.1	4.5	21.4	3.97	9.52	1.23	8.05	1.31	11
452.76	457.68	HC22-1342	2342.05	2143.6	198.45	652.81	484	1035	112.5	448	64.1	93.7	10.55	40.8	4.81	23.4	4.02	10	1.33	8.46	1.38	11.8
457.68	462.60	HC22-1343	2498.03	2286.7	211.33	694.13	522	1100	121	473	70.7	98.7	10.8	44.9	5.13	24.3	4.45	11.05	1.48	9.04	1.48	12.8
462.60	467.52	HC22-1344	2207.01	2005.3	201.71	617.69	451	965	106.5	420	62.8	96	10.55	40.6	4.79	23.6	4.03	10.35	1.44	8.91	1.44	11.9
467.52	472.44	HC22-1345	2319.51	2111.4	208.11	648.34	472	1020	110.5	444	64.9	99.2	10.85	42.3	5.04	23.9	4.26	10.6	1.42	9.06	1.48	12.8
472.44	477.36	HC22-1346	2263.41	2058.1	205.31	637.77	463	986	107.5	435	66.6	97	10.75	42.4	4.97	23.7	4.24	10.6	1.46	8.81	1.38	12.9
477.36	482.28	HC22-1347	1757.62	1572.2	185.42	489.54	351	757	82.3	330	51.9	91.7	9.07	34.7	4.24	21.1	3.9	9.75	1.34	8.24	1.38	11.7
482.28	487.20	HC22-1348	2153.79	1967.3	186.49	590.38	473	931	107	397	59.3	87.6	10.85	37.1	4.48	22.6	3.97	9.47	1.2	7.94	1.28	9.7
487.20	492.13	HC22-1349	2659.99	2454.3	205.69	717.19	583	1185	134	483	69.3	93.5	11.45	43.8	5.29	25.6	4.46	10.4	1.43	8.36	1.4	11

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM010	*4,632,667.47*	*475,449.81*	*5,714.01*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-1351	2469.58	2136.3	333.28	707.76	486	993	119.5	456	81.8	166	10.65	60.2	8.06	42.4	7.81	18.15	2.49	15.1	2.42	13.5
4.92	9.84	HC22-1352	2620.52	2361.6	258.92	734.25	565	1100	130.5	489	77.1	127.5	10.55	49.6	6.25	31.4	5.86	13.75	1.68	10.6	1.73	9.6
9.84	14.76	HC22-1353	2230.25	1990.2	240.05	625.4	466	935	108	412	69.2	112.5	10.15	48.1	6.1	30.1	5.44	13.1	1.76	11.1	1.7	10
14.76	19.69	HC22-1354	2454.12	2179.3	274.82	690.15	505	1025	119.5	455	74.8	133.5	10.6	53	6.85	34	6.26	14.95	1.88	12	1.78	11.8
19.69	24.61	HC22-1355	2577.89	2298.8	279.09	731.6	538	1070	128.5	485	77.3	135	10.8	54.7	7	33.8	6.51	15.25	1.98	12.2	1.85	9.2
24.61	29.53	HC22-1356	2133.49	1906.4	227.09	598.79	444	897	103	397	65.4	109.5	10.2	44.1	5.59	27.8	5.03	12.1	1.54	9.71	1.52	8.5
29.53	34.45	HC22-1357	1882.57	1682.8	199.77	520.87	386	806	90.7	343	57.1	94.3	10.5	38.2	4.97	25.1	4.45	10.35	1.46	9.04	1.4	7.5
34.45	39.37	HC22-1358	2119.71	1892.7	227.01	594.3	451	880	102.5	395	64.2	110.5	10.5	42.6	5.5	27.1	5.02	12.3	1.61	10.3	1.58	9.1
39.37	44.29	HC22-1359	2682.12	2366.1	316.02	755.66	541	1115	130.5	496	83.6	159	10.75	57.1	7.46	38.1	7.11	17.05	2.34	14.75	2.36	12.5
44.29	49.21	HC22-1360	2038.37	1800.1	238.27	576.38	409	849	98.7	380	63.4	119	10.35	43.2	5.78	28.5	5.28	12.65	1.66	10.25	1.6	8.8
49.21	54.13	HC22-1361	1668.25	1497.3	170.95	441.68	358	723	81.6	288	46.7	81	10.3	31.6	3.98	21.4	3.75	8.69	1.18	7.81	1.24	6.5
54.13	59.06	HC22-1362	1794.7	1608.1	186.6	493.66	384	757	87.1	328	52	90.9	9.94	34.1	4.56	22	4.18	9.98	1.32	8.4	1.22	7.1
59.06	63.98	HC22-1363	1839.8	1645.9	193.9	510.13	383	781	88.3	337	56.6	92.9	10.05	36.8	4.63	23.6	4.32	10.3	1.43	8.54	1.33	6.3
63.98	68.90	HC22-1364	1960.89	1763.7	197.19	544.15	412	836	94.6	363	58.1	95.1	9.92	37.1	4.75	23.7	4.39	10.6	1.36	8.89	1.38	6.9
68.90	73.82	HC22-1365	1964.72	1764.8	199.92	545.74	417	831	95.8	364	57	95.7	10	37.5	4.74	24.2	4.55	11.1	1.45	9.26	1.42	7.6
73.82	78.74	HC22-1366	2118.43	1894.7	223.73	585.47	444	897	102.5	388	63.2	109	9.98	42.1	5.37	26.4	4.91	12.05	1.64	10.6	1.68	8.6
78.74	83.66	HC22-1367	2183.56	1956.7	226.86	603.36	468	918	105.5	401	64.2	111	9.78	42.6	5.46	27.2	5.1	12.05	1.64	10.45	1.58	8.3
83.66	88.58	HC22-1368	2268.53	2026	242.53	633.94	463	964	110	421	68	119.5	10.6	45.1	5.74	29.2	5.29	12.65	1.81	10.9	1.74	8.3
88.58	93.50	HC22-1370	2403.17	2158.8	244.37	676.41	507	1010	117.5	452	72.3	119	10.5	46.7	5.91	28.7	5.29	13.5	1.86	11.2	1.71	6.7
93.50	98.43	HC22-1371	2241.22	2002.7	238.52	620.45	463	954	109	409	67.7	116.5	10.55	44.4	5.55	29.2	5.35	13	1.76	10.55	1.66	8.3
98.43	103.35	HC22-1372	2208.35	1973.7	234.65	620.1	461	927	107.5	412	66.2	116	10.1	42.7	5.5	28.9	5.2	12.65	1.7	10.3	1.6	9.2
103.35	108.27	HC22-1373	2085.92	1861.3	224.62	580.45	433	881	102	382	63.3	108	10.35	42.3	5.35	27.8	5.16	12.15	1.68	10.15	1.68	7.3
108.27	113.19	HC22-1374	2169.84	1934.6	235.24	610.86	445	912	104.5	406	67.1	115	10.35	44.6	5.76	27.5	5.19	12.85	1.74	10.7	1.55	8.8
113.19	118.11	HC22-1375	2147.47	1911.5	235.97	602.45	443	900	104.5	399	65	116.5	10.05	43.3	5.55	28.4	5.31	12.6	1.71	10.85	1.7	8
118.11	123.03	HC22-1376	2288.83	2057.6	231.23	636.15	482	973	112	424	66.6	113.5	9.8	43.3	5.45	28.1	5.37	12.5	1.65	10	1.56	7.6
123.03	127.95	HC22-1377	2120.31	1888.3	232.01	597.66	443	881	103.5	397	63.8	116	9.84	41.3	5.46	27.9	5.23	12.95	1.66	10.1	1.57	7.6
127.95	132.87	HC22-1378	2129.45	1893.8	235.65	601.84	442	883	104	400	64.8	118.5	10	42.6	5.54	27.5	5.19	12.6	1.75	10.35	1.62	7.4
132.87	137.80	HC22-1379	2115.69	1885.2	230.49	600.68	432	885	102.5	399	66.7	115	9.85	41.5	5.48	27	5.08	12.9	1.72	10.4	1.56	6.7
137.80	142.72	HC22-1380	2241.76	2002.3	239.46	632.73	474	930	109	420	69.3	119.5	9.53	43.4	5.73	28.7	5.3	13.2	1.75	10.75	1.6	7.4

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM010	*4,632,667.47*	*475,449.81*	*5,714.01*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-1381	1997.26	1777.3	219.96	561.93	409	838	95.7	373	61.6	108	9.4	40.7	5.33	26.3	4.85	12.05	1.56	10.2	1.57	7.6
147.64	152.56	HC22-1382	2222.4	1984.4	238	627.08	456	936	108	416	68.4	117	10.2	44	5.58	29.1	5.31	12.65	1.65	10.9	1.61	7.2
152.56	157.48	HC22-1383	2268.46	2027.2	241.26	641.08	480	940	110	428	69.2	121	10.05	43.5	5.58	28.3	5.22	13.1	1.76	11.05	1.7	6.7
157.48	162.40	HC22-1384	2059.84	1801.8	258.04	567.59	410	861	98.3	369	63.5	129.5	9.44	47.3	5.69	31.1	5.85	13.8	1.91	11.7	1.75	7.8
162.40	167.32	HC22-1385	2085.95	1829.1	256.85	575.77	436	853	100	375	65.1	129	9.25	48.3	5.77	29.9	5.71	14.2	1.84	11.2	1.68	7
167.32	172.24	HC22-1386	2117.52	1862.4	255.12	583.21	442	873	102	382	63.4	128	9.25	47.7	5.51	30.3	5.62	13.7	1.85	11.45	1.74	7.9
172.24	177.17	HC22-1387	1999.35	1736.1	263.25	557.8	405	810	94.5	364	62.6	133	9.29	47.9	5.9	30.8	5.87	14.95	1.89	11.85	1.8	7.9
177.17	182.09	HC22-1388	2140.1	1871.1	269	593.3	442	873	102.5	388	65.6	137	9.52	47.9	5.7	31.5	5.85	14.95	1.88	12.7	2	7.4
182.09	187.01	HC22-1390	2094.94	1849.9	245.04	566.77	440	877	100.5	371	61.4	124	8.78	44.2	5.37	28.5	5.42	13.55	1.84	11.6	1.78	7.5
187.01	191.93	HC22-1391	2269.85	1997.4	272.45	615.36	477	943	109	403	65.4	139.5	9.31	47.4	5.76	32.2	6.03	15.7	2.02	12.5	2.03	7.5
191.93	196.85	HC22-1392	2125.2	1831.9	293.3	591.56	419	862	101.5	383	66.4	152.5	9.01	50.6	6.26	34.4	6.68	16.6	2.08	13.2	1.97	7.7
196.85	201.77	HC22-1393	1479.19	1265.9	213.29	412.07	287	597	70.3	264	47.6	110	6.39	36.8	4.57	25.6	4.91	12.45	1.52	9.65	1.4	6.1
201.77	206.69	HC22-1394	2004.94	1726.1	278.84	556	397	813	94.7	359	62.4	142	9.06	48.9	6	33.9	6.4	15.95	1.96	12.75	1.92	7.4
206.69	211.61	HC22-1395	2022.29	1751.3	270.99	551.44	409	829	95.1	357	61.2	139	9.13	48.1	5.84	32.3	6.19	14.85	1.9	11.9	1.78	7.8
211.61	216.54	HC22-1396	2068.25	1803.2	265.05	563.12	429	848	98.6	367	60.6	136.5	9	46.5	5.72	31.2	5.88	15	1.86	11.7	1.69	7.1
216.54	221.46	HC22-1397	2224.73	1942.7	282.03	608.93	459	914	107.5	395	67.2	145.5	9.32	49.4	6.13	33.1	6.37	16	1.97	12.45	1.79	7.6
221.46	226.38	HC22-1398	2113.7	1827	286.7	588.14	420	860	100.5	380	66.5	144.5	9.47	52.7	6.44	34.7	6.4	16.05	1.99	12.55	1.9	8.5
226.38	231.30	HC22-1399	2110.79	1853.2	257.59	579.63	426	884	101	380	62.2	130	8.72	47.7	5.73	30.7	5.81	14.15	1.84	11.2	1.74	7.4
231.30	236.22	HC22-1400	2170.99	1906.9	264.09	590.08	445	909	103.5	385	64.4	134	8.92	48.8	5.88	31.3	5.78	14.45	1.8	11.4	1.76	8
236.22	241.14	HC22-1401	2255.86	1954.7	301.16	627.55	457	912	107.5	407	71.2	155.5	9.61	53.5	6.65	35.2	6.81	16.75	2.1	13.1	1.94	8.9
241.14	246.06	HC22-1402	2253.53	1954.2	299.33	620.56	456	920	106.5	402	69.7	153	9.44	53.2	6.56	35.8	6.84	17.05	2.14	13.35	1.95	11.4
246.06	250.98	HC22-1403	2399.71	2092.7	307.01	667.68	490	978	114	437	73.7	158	9.51	55.1	6.78	36.2	6.79	17.05	2.16	13.4	2.02	9.8
250.98	255.91	HC22-1404	2318.43	2020.4	298.03	630.99	464	968	111.5	408	68.9	150.5	9.95	53.1	6.59	36	6.91	17.3	2.08	13.55	2.05	9.4
255.91	260.83	HC22-1405	2276.29	1975.3	300.99	634.88	460	922	110	413	70.3	157.5	9.05	52.4	6.48	35.1	6.57	16.75	2.13	13.1	1.91	9.3
260.83	265.75	HC22-1406	2448.74	2132.1	316.64	675.51	491	1010	117	439	75.1	164	9.82	56.7	6.91	37.5	6.99	17.3	2.1	13.4	1.92	9.6
265.75	270.67	HC22-1407	2412.43	2102.6	309.83	677.36	482	988	115.5	440	77.1	157.5	9.53	57.1	7.06	37.7	7.19	17.15	2.05	12.55	2	12
270.67	275.59	HC22-1408	2447.94	2169.2	278.74	679.34	504	1025	118	446	76.2	140.5	9.51	53.4	6.14	33	6.12	15.05	1.78	11.4	1.84	10.3
275.59	280.51	HC22-1409	1571.63	1392.5	179.13	422.06	329	666	75.5	276	46	90.1	6.44	33.6	3.96	20.6	3.95	10	1.24	8.06	1.18	7.1
280.51	285.43	HC22-1411	1979.58	1743.5	236.08	539.67	415	821	95.7	351	60.8	122	7.72	43.4	5.07	27.1	5.11	12.8	1.56	9.8	1.52	9.3

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM010	*4,632,667.47*	*475,449.81*	*5,714.01*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-1412	2099.82	1848.5	251.32	574.58	430	879	100	376	63.5	126.5	9	47.5	5.58	29.5	5.59	13.75	1.73	10.5	1.67	8.7
290.35	295.28	HC22-1413	2278.55	2016.2	262.35	625.02	466	963	109.5	409	68.7	131	9.39	49.8	6.02	31.8	5.77	13.75	1.76	11.3	1.76	10.4
295.28	300.20	HC22-1414	1983.1	1744.8	238.3	544.12	410	824	94.8	356	60	121	8.03	43.9	5.22	28.1	5.22	12.8	1.68	10.7	1.65	7.8
300.20	305.12	HC22-1415	2157.58	1898.1	259.48	598.64	433	903	104	392	66.1	129.5	9.39	49.5	5.64	30.9	5.56	13.75	1.8	11.7	1.74	7.5
305.12	310.04	HC22-1416	2353.19	2071.2	281.99	647.12	483	980	114	424	70.2	145	9.22	51.6	6.22	32.7	6.02	15.1	1.96	12.25	1.92	9
310.04	314.96	HC22-1417	2297.68	2006.5	291.18	641.4	472	933	109.5	420	72	151	9.32	52.3	6.3	33.6	6.29	15.7	2.07	12.7	1.9	9.8
314.96	319.88	HC22-1418	2391.72	2094.3	297.42	659.23	486	990	114.5	430	73.8	152.5	9.63	55	6.33	34.6	6.49	16.05	2.07	12.9	1.85	10.4
319.88	324.80	HC22-1419	2264.54	1970.4	294.14	626.56	461	924	109	407	69.4	151	9.31	52.9	6.36	34.8	6.62	16.4	2.08	12.7	1.97	9
324.80	329.72	HC22-1420	2480.25	2169.3	310.95	709.24	503	1005	117	468	76.3	149.5	10.25	56.9	7.24	40.7	6.89	19	2.24	15.95	2.28	13.2
329.72	334.65	HC22-1421	2559.92	2250.1	309.82	725.09	523	1050	122.5	477	77.6	151	9.86	55.5	7.29	40.7	6.61	19.15	2.22	15.25	2.24	11.7
334.65	339.57	HC22-1422	2296.8	1994.6	302.2	649.32	455	935	108	426	70.6	150.5	10.15	53.1	6.82	37.9	6.72	18.3	2.11	14.5	2.1	12.4
339.57	344.49	HC22-1423	2136.69	1852	284.69	617.92	401	877	101	405	68	139.5	10.1	50.1	6.42	37.5	6.33	17	1.98	13.8	1.96	11.4
344.49	349.41	HC22-1424	2075.54	1814.8	260.74	588.14	411	856	99.7	385	63.1	125.5	9.96	47.9	6.14	34.2	5.81	15.5	1.81	12.2	1.72	11.4
349.41	354.33	HC22-1425	2014.47	1758.7	255.77	579.59	378	841	98	378	63.7	121.5	10.05	47.2	6.09	33.8	5.71	15.5	1.89	12.3	1.73	10.6
354.33	359.25	HC22-1426	2335.51	2056.8	278.71	665.28	476	958	111.5	438	73.3	133.5	10.05	53.1	6.58	35.9	5.98	16.25	1.94	13.5	1.91	12.5
359.25	364.17	HC22-1427	2273.04	1990.5	282.54	646.59	461	926	107.5	426	70	136.5	10.5	52	6.69	36.4	6.2	16.5	2.03	13.75	1.97	13.4
364.17	369.09	HC22-1428	2356.31	2062.3	294.01	666.69	486	955	112	438	71.3	142	10.55	52.8	6.79	38.6	6.59	17.75	2.14	14.65	2.14	13.1
369.09	374.02	HC22-1430	2415.78	2108.9	306.88	676.66	497	981	114	444	72.9	150	10.7	55.5	7.06	38.7	6.86	18.75	2.19	14.95	2.17	11.8
374.02	378.94	HC22-1431	2311.98	2002.8	309.18	649.54	463	938	109.5	423	69.3	152.5	10.4	53.7	7.14	40.6	6.99	18.65	2.21	14.85	2.14	12
378.94	383.86	HC22-1432	2442.34	2111.5	330.84	695.56	488	979	115.5	453	76	161	10.95	60	7.76	43.3	7.75	19.75	2.3	15.85	2.18	11.6
383.86	388.78	HC22-1433	2510	2199.2	310.8	712.4	506	1030	119.5	467	76.7	148.5	10.7	58.2	7.6	41.6	7.01	18.35	2.16	14.6	2.08	13.4
388.78	393.70	HC22-1434	1848.74	1618.9	229.84	536.26	350	768	88.8	353	59.1	108	9.78	44.5	5.56	29.8	5.02	13	1.54	11.15	1.49	10.8
393.70	398.62	HC22-1435	1868	1630.5	237.5	541.28	357	769	90	355	59.5	112	10.15	44.6	5.48	31.3	5.19	14.1	1.62	11.35	1.71	11.6
398.62	403.54	HC22-1436	1903.01	1659.5	243.51	551.76	355	790	92	362	60.5	115	9.93	46.4	5.96	31.3	5.45	14.55	1.66	11.65	1.61	10.8
403.54	408.46	HC22-1437	1998.27	1765	233.27	568.79	385	846	95.5	377	61.5	112.5	9.64	43.2	5.49	29.3	5.05	13.5	1.66	11.25	1.68	10.2
408.46	413.39	HC22-1438	2072.92	1815.6	257.32	597.32	390	868	100	392	65.6	123	10.25	47.8	6.02	33.7	5.59	15.4	1.75	12.05	1.76	11.4
413.39	418.31	HC22-1439	2150.77	1923.6	227.17	606.53	449	903	104.5	404	63.1	107	9.59	44.1	5.33	29.6	4.83	13.2	1.56	10.4	1.56	9.4
418.31	423.23	HC22-1440	1885.59	1645.6	239.99	544.19	356	782	91.1	357	59.5	116	9.41	43.6	5.59	31	5.35	14	1.67	11.7	1.67	10.6
423.23	428.15	HC22-1441	1064.73	899.8	164.93	303.74	190.5	430	49.3	194.5	35.5	82.7	5.55	27.6	3.74	20.7	3.61	9.93	1.29	8.63	1.18	9.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM010	4,632,667.47	475,449.81	5,714.01	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
428.15	433.07	HC22-1442	2042.83	1779.1	263.73	585.27	385	849	97.3	384	63.8	127.5	9.91	48	6.17	34	5.88	15.55	1.88	12.95	1.89	11.6
433.07	437.99	HC22-1443	2194.17	1926.4	267.77	615.32	450	902	103	405	66.4	130.5	9.74	48.4	6.22	34.7	5.93	15.9	1.91	12.6	1.87	10
437.99	442.91	HC22-1444	1547.32	1362.3	185.02	436.49	296	658	73.9	287	47.4	90.7	6.12	33.5	4.39	23.8	4.16	10.5	1.29	9.33	1.23	10.6
442.91	447.83	HC22-1445	2160.68	1934.1	226.58	604.48	457	909	104.5	400	63.6	104	9.05	45.3	5.58	30.8	4.94	13.45	1.56	10.35	1.55	10.4
447.83	452.76	HC22-1446	1960.03	1757.3	202.73	544.2	396	848	94.7	361	57.6	93.4	9.53	40.4	4.9	26	4.31	11.85	1.44	9.49	1.41	9.7
452.76	457.68	HC22-1447	2029.38	1816.3	213.08	571.41	406	871	98.8	381	59.5	99.1	9.84	41.9	5.11	27	4.59	12.35	1.45	10.25	1.49	9.6
457.68	462.60	HC22-1448	1825.18	1629.8	195.38	506.19	358	795	88.9	335	52.9	91.8	9.42	37.2	4.69	24.7	4.3	11.35	1.41	9.2	1.31	9.5
462.60	467.52	HC22-1450	2048.96	1817.9	231.06	579.23	401	873	98.9	383	62	109	9.99	44.3	5.53	29.8	5.03	13.35	1.58	10.95	1.53	8.7
467.52	472.44	HC22-1451	2160.95	1923.8	237.15	612.57	441	907	104.5	406	65.3	110.5	9.89	46.5	5.67	31.1	5.2	13.8	1.58	11.35	1.56	10.5
472.44	477.36	HC22-1452	2184.83	1940.7	244.13	614.57	454	910	105.5	407	64.2	114.5	9.68	47.7	5.87	32	5.37	13.85	1.68	11.8	1.68	11
477.36	482.28	HC22-1453	2081.63	1850.4	231.23	591.06	415	880	100.5	393	61.9	108.5	8.8	44.9	5.56	30.1	5.01	13.85	1.63	11.35	1.53	10.3
482.28	487.20	HC22-1454	2531.45	2268.9	262.55	708.99	535	1065	123	471	74.9	123	10.2	52.1	6.29	33.8	5.55	15.4	1.76	12.6	1.85	12.4
487.20	492.13	HC22-1455	2457.65	2205.4	252.25	690.95	523	1030	118.5	462	71.9	117.5	9.65	50.4	6.05	32.5	5.47	14.95	1.81	12.15	1.77	11.1

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM011	*4,632,699.70*	*475,245.94*	*5,732.99*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-1456	1750.7	1511.7	239	487.22	331	730	80.4	313	57.3	115.5	8.38	44.3	5.72	30.8	5.59	14.15	1.74	11.05	1.77	10.4
4.92	9.84	HC22-1457	2239.68	1988.3	251.38	618.07	482	927	104	404	71.3	117	9.83	51.2	6.47	32.3	5.72	14.15	1.8	11.15	1.76	12
9.84	14.76	HC22-1458	2470.11	2206.6	263.51	676.56	551	1020	116.5	443	76.1	121.5	9.4	55.8	6.86	34.1	6.04	14.4	1.82	11.8	1.79	12.5
14.76	19.69	HC22-1459	2561.21	2293.6	267.61	709.02	556	1070	121.5	465	81.1	124	9.97	56.3	6.92	34.5	6.24	14.2	1.86	11.75	1.87	12.8
19.69	24.61	HC22-1460	2549.8	2262.6	287.2	708.71	554	1045	119.5	463	81.1	133.5	9.71	59.1	7.41	37.7	6.68	16.15	2.03	12.8	2.12	13.1
24.61	29.53	HC22-1461	2550.93	2261.4	289.53	703.93	547	1055	118	461	80.4	136	9.92	59.4	7.43	37.1	6.5	16.15	2.01	12.9	2.12	12.6
29.53	34.45	HC22-1462	2826.93	2522.4	304.53	778.29	621	1170	132.5	511	87.9	142.5	9.64	63.2	7.89	39	7.04	16.95	2.17	13.85	2.29	13.7
34.45	39.37	HC22-1463	2516.39	2283	233.39	678.48	570	1070	118.5	451	73.5	105.5	9.86	51	6.18	29.3	5.3	12.75	1.59	10.3	1.61	10.6
39.37	44.29	HC22-1464	2611.49	2374.1	237.39	712.93	583	1115	124	474	78.1	106.5	9.74	52.8	6.43	30.4	5.2	12.95	1.56	10.1	1.71	10.8
44.29	49.21	HC22-1465	2321.97	2092.4	229.57	630.92	522	975	109.5	416	69.9	104	10	49.6	6.02	29.5	5.01	12.3	1.59	9.98	1.57	10.6
49.21	54.13	HC22-1466	2235.33	2012.8	222.53	609.96	500	938	105	401	68.8	99.6	9.88	48	5.96	29.2	5.06	12.05	1.5	9.81	1.47	10.2
54.13	59.06	HC22-1467	2433.97	2196.4	237.57	657.77	546	1030	114.5	433	72.9	106.5	10.3	52	6.27	31.1	5.4	12.7	1.59	10.1	1.61	12
59.06	63.98	HC22-1468	2611.13	2372.3	238.83	708.57	591	1110	124	470	77.3	107	10.75	52.6	6.27	31	5.45	12.95	1.54	9.67	1.6	11.6
63.98	68.90	HC22-1469	2321.51	2102.7	218.81	617.84	518	1000	108.5	408	68.2	100.5	8.82	47	5.74	27.4	4.92	12.1	1.55	9.42	1.36	10.5
68.90	73.82	HC22-1471	2566.79	2309.7	257.09	697.31	572	1080	120.5	459	78.2	118.5	9.81	54.9	6.61	33	5.92	14.1	1.75	10.85	1.65	11
73.82	78.74	HC22-1472	2411.22	2148.3	262.92	656.96	522	1010	111.5	430	74.8	122	10.05	54.6	6.86	33.8	6.07	14.55	1.78	11.3	1.91	13
78.74	83.66	HC22-1473	2498.54	2226.9	271.64	686.04	548	1035	118	450	75.9	126	10.35	56.2	7.04	35.1	6.22	15	1.94	11.85	1.94	12.4
83.66	88.58	HC22-1474	2584.75	2297.2	287.55	707.06	564	1070	119.5	465	78.7	135	9.88	59.1	7.36	36.5	6.61	16	2.04	13	2.06	12
88.58	93.50	HC22-1475	2437.8	2176.7	261.1	660.52	531	1025	113.5	432	75.2	121.5	10.05	54.6	6.82	33	6.12	14.6	1.81	10.8	1.8	11
93.50	98.43	HC22-1476	2571.93	2291.3	280.63	699.59	560	1075	119.5	459	77.8	131.5	10.3	57.3	7.09	36.2	6.35	15.9	1.96	12.05	1.98	11.3
98.43	103.35	HC22-1477	2624.61	2333.1	291.51	722.73	571	1085	122.5	472	82.6	135.5	10.5	60	7.63	38	6.78	16.45	1.99	12.7	1.96	11.6
103.35	108.27	HC22-1478	2649.81	2354.3	295.51	728.44	581	1090	123	477	83.3	139.5	10.25	59.8	7.84	37.3	6.8	16.25	2.19	13.5	2.08	12
108.27	113.19	HC22-1479	2691.4	2395.8	295.6	733.53	583	1125	125	481	81.8	139.5	10.35	59.9	7.43	38.3	6.71	16.65	2.05	12.65	2.06	10.6
113.19	118.11	HC22-1480	2741.13	2458	283.13	744	608	1150	128	490	82	130	10.85	59.3	7.5	36.5	6.52	15.95	2.02	12.45	2.04	10.5
118.11	123.03	HC22-1481	2762.63	2455.8	306.83	755.95	596	1150	128	498	83.8	145.5	10.5	63	7.85	38.3	6.85	17.35	2.2	13.15	2.13	12.3
123.03	127.95	HC22-1482	2768.21	2455.4	312.81	751.52	597	1155	129	488	86.4	148.5	11.1	61.6	7.92	40.2	7.32	17.85	2.26	13.95	2.11	11.6
127.95	132.87	HC22-1483	2733.17	2424.1	309.07	737.7	594	1140	125	482	83.1	148	10.4	61.7	7.7	39.9	6.96	17	2.14	13.2	2.07	11.3
132.87	137.80	HC22-1484	2820.29	2496.2	324.09	766.24	614	1165	129.5	502	85.7	154.5	10.9	64.5	8.14	40.9	7.47	18.55	2.37	14.5	2.26	12
137.80	142.72	HC22-1485	2758.77	2429.7	329.07	759.33	591	1130	128	494	86.7	157.5	10.7	64.8	8.43	42.2	7.55	18.5	2.38	14.75	2.26	12

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM011	*4,632,699.70*	*475,245.94*	*5,732.99*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-1486	2866.85	2553.1	313.75	779.95	631	1190	133.5	511	87.6	149	10.5	63.5	8.05	39.8	7.22	17.65	2.23	13.75	2.05	10.4
147.64	152.56	HC22-1487	2791.65	2483.8	307.85	757.88	608	1165	128.5	496	86.3	146	10.85	62.4	7.78	39.3	6.8	17.2	2.28	13.15	2.09	11.2
152.56	157.48	HC22-1488	2631.36	2319.8	311.56	722.14	555	1090	121.5	470	83.3	149.5	10.55	61.8	7.74	39.6	7.16	16.95	2.21	13.95	2.1	10.7
157.48	162.40	HC22-1490	2566.65	2259.4	307.25	703.99	548	1055	117.5	459	79.9	146	10.1	60	7.79	39.8	7.24	18	2.22	13.9	2.2	11
162.40	167.32	HC22-1491	2512.22	2212.3	299.92	684.21	534	1040	114.5	446	77.8	144	9.69	58.7	7.61	38.3	7.06	16.8	2.24	13.4	2.12	10.7
167.32	172.24	HC22-1492	2846.12	2506.4	339.72	804.85	571	1180	139.5	529	86.9	170	11.5	63.1	7.75	41.7	7.02	19.25	2.2	14.85	2.35	9.4
172.24	177.17	HC22-1493	2644.63	2323	321.63	745.12	531	1095	126.5	490	80.5	159	10.8	62	7.32	40.8	6.71	17.1	2.18	13.5	2.22	8.9
177.17	182.09	HC22-1494	2844.23	2511.6	332.63	800.93	576	1185	137.5	526	87.1	163	12.4	62.8	8.03	42.3	7.04	17.85	2.41	14.55	2.25	9.8
182.09	187.01	HC22-1495	2780.12	2446.7	333.42	772.14	564	1160	133	504	85.7	164.5	11.35	64.1	7.94	41.5	7.04	17.95	2.33	14.45	2.26	8.7
187.01	191.93	HC22-1496	2789.07	2461.4	327.67	780.56	569	1160	133.5	511	87.9	162.5	11.75	62	7.86	40.3	7.19	18.1	2.16	13.6	2.21	6.9
191.93	196.85	HC22-1497	2845.07	2507.6	337.47	799.42	579	1180	136.5	525	87.1	164.5	11.95	65.7	7.72	43.1	7.19	18.3	2.33	14.4	2.28	11
196.85	201.77	HC22-1498	2957.49	2626.1	331.39	837.19	599	1240	143	553	91.1	162	11.9	64.7	7.99	42.1	6.8	17.8	2.29	13.7	2.11	6.9
201.77	206.69	HC22-1499	2835.69	2495	340.69	802.8	573	1170	138	524	90	167.5	11.85	66.4	8	42.8	7.13	17.9	2.22	14.6	2.29	11.8
206.69	211.61	HC22-1500	2695.25	2374.3	320.95	760.47	541	1120	130.5	495	87.8	159	11.85	61.4	7.57	39.6	6.91	17.15	2.08	13.25	2.14	12
211.61	216.54	HC22-1501	2821.29	2487.5	333.79	804.64	563	1170	134	530	90.5	163.5	11.95	63.6	7.74	42.4	6.99	18.45	2.26	14.4	2.5	7.8
216.54	221.46	HC22-1502	2888.75	2541.4	347.35	814.11	579	1200	140.5	534	87.9	172	12.25	65.7	8.11	43.6	7.32	19.25	2.07	14.65	2.4	10.6
221.46	226.38	HC22-1503	2732.44	2401.9	330.54	768.98	552	1130	132.5	502	85.4	162	11.8	64	7.88	41.2	6.92	17.85	2.25	14.4	2.24	10.1
226.38	231.30	HC22-1504	2755.92	2430.8	325.12	781.65	553	1145	133.5	514	85.3	158.5	11.3	63	7.55	41.3	6.78	18.55	2.19	13.75	2.2	12
231.30	236.22	HC22-1505	2907.2	2544.4	362.8	826.11	579	1195	139.5	537	93.9	177.5	12.75	69.4	8.71	47	7.55	20.1	2.37	15.05	2.37	10.9
236.22	241.14	HC22-1506	2869.33	2520	349.33	810.8	571	1190	138.5	528	92.5	172.5	12.35	66	8.5	43.3	7.54	19.7	2.3	14.7	2.44	9.5
241.14	246.06	HC22-1507	2764.51	2436.2	328.31	784.55	554	1145	134.5	514	88.7	164	12.15	61.8	7.55	39.8	7.22	17.55	2.19	13.85	2.2	8.6
246.06	250.98	HC22-1508	2816.02	2495.6	320.42	795.7	568	1180	138.5	525	84.1	156.5	11.7	62.3	7.4	40.7	6.6	17.35	2.18	13.55	2.14	8.9
250.98	255.91	HC22-1510	2826.3	2517.3	309	802.66	576	1185	136.5	533	86.8	151	11.4	60.4	7.66	38.7	6.45	16.35	1.95	13.05	2.04	9.8
255.91	260.83	HC22-1511	2178.65	1904.2	274.45	618.11	435	893	105.5	400	70.7	136.5	8.52	49.7	6.51	35.4	6.06	15.85	1.87	12.2	1.84	10.3
260.83	265.75	HC22-1512	2561.25	2257.2	304.05	735.31	507	1060	123.5	481	85.7	151	11.55	56.8	7.11	38	6.35	16.1	2.19	12.8	2.15	10.6
265.75	270.67	HC22-1513	2900.76	2549	351.76	820.91	581	1200	137.5	538	92.5	173.5	11.5	66.7	8.41	44.5	7.62	19.5	2.47	15.25	2.31	8.1
270.67	275.59	HC22-1514	2673.9	2339	334.9	756.12	528	1105	131	489	86	166.5	11.25	62.9	7.82	42.3	7.08	18.5	2.48	13.85	2.22	8.9
275.59	280.51	HC22-1515	2834.15	2489.9	344.25	812.37	565	1165	137.5	531	91.4	169	11	65.8	8.37	44.1	7.46	19.3	2.31	14.65	2.26	6.5
280.51	285.43	HC22-1516	2790.05	2458.5	331.55	790.24	562	1155	134.5	518	89	166.5	10.8	63.1	7.64	41.1	6.92	17.45	2.11	13.8	2.13	10.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM011	*4,632,699.70*	*475,245.94*	*5,732.99*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*	*TREE*	*LREE*	*HREE*	*MREE*	*Light REE* *La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Heavy REE* *Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-1517	2697.12	2374.4	322.72	759	543	1120	131	498	82.4	159.5	11.35	61.5	7.7	39.9	6.82	17.8	2.19	13.8	2.16	7.9
290.35	295.28	HC22-1518	2794.18	2465.2	328.98	792.21	567	1155	134	518	91.2	164	10.65	62.9	7.51	41.5	7.11	17.5	2.2	13.5	2.11	8.3
295.28	300.20	HC22-1519	2950.43	2580.2	370.23	845.86	579	1210	142.5	553	95.7	184	11.5	70.6	8.76	45.9	8	20.7	2.49	15.75	2.53	9.4
300.20	305.12	HC22-1520	2742.15	2409.3	332.85	783.75	550	1125	133.5	514	86.8	167	11.95	61	7.85	41.6	7.09	18.9	2.17	13.2	2.09	13.1
305.12	310.04	HC22-1521	2471.84	2149.2	322.64	706.34	486	1005	117.5	460	80.7	165	9.93	57.4	7.54	40.6	6.93	17.2	2.06	13.7	2.28	7.1
310.04	314.96	HC22-1522	2941.72	2566.9	374.82	841.88	581	1200	141	548	96.9	184.5	11.95	70.7	8.98	47	7.79	21.9	2.59	16.8	2.61	11.8
314.96	319.88	HC22-1523	2818.72	2472.4	346.32	799.22	560	1165	135.5	524	87.9	170.5	11.75	66.1	7.92	43.9	7.58	19.1	2.43	14.75	2.29	8.5
319.88	324.80	HC22-1524	2798.8	2472	326.8	784.45	567	1170	133.5	514	87.5	162	11.5	61.3	7.45	42	6.69	17.75	2.13	14	1.98	7.6
324.80	329.72	HC22-1525	2946.03	2587.2	358.83	836.18	590	1215	141.5	549	91.7	178	11.35	68.3	8.58	45.4	7.77	19.4	2.41	15.05	2.57	12
329.72	334.65	HC22-1526	2791.54	2456.9	334.64	789.64	559	1160	135.5	517	85.4	165	11.45	62.2	8.14	43.6	7.18	18.7	2.28	13.7	2.39	5.9
334.65	339.57	HC22-1527	2733.24	2388.6	344.64	779.49	541	1120	130	509	88.6	171	11.15	64.1	8.39	43.5	7.38	19.15	2.18	15.45	2.34	11.6
339.57	344.49	HC22-1528	2826.6	2487.8	338.8	830.09	560	1150	144	546	87.8	162.5	11.25	66.6	8.79	43.5	8.01	18.75	2.44	14.6	2.36	7.3
344.49	349.41	HC22-1529	2837.65	2483.9	353.75	838.95	565	1135	146	548	89.9	170.5	11.2	68.8	9.25	45.8	8.31	19.8	2.52	15.2	2.37	7.7
349.41	354.33	HC22-1531	2575.51	2258.5	317.01	763.34	505	1040	133	498	82.5	151	11	62.6	8.34	41.5	7.44	17.55	2.3	13.1	2.18	7
354.33	359.25	HC22-1532	2651.51	2334	317.51	784.5	529	1070	136	514	85	151	11.05	63.4	8.3	41.2	7.34	17.15	2.3	13.6	2.17	7.4
359.25	364.17	HC22-1533	2694.23	2367	327.23	801.2	536	1080	138.5	527	85.5	159.5	10.8	63.3	8.4	41.8	7.65	17.9	2.3	13.4	2.18	7.5
364.17	369.09	HC22-1534	2796.96	2459.7	337.26	833.29	554	1125	144.5	546	90.2	162	11	66.5	8.79	43.8	7.88	18.65	2.43	13.9	2.31	7.1
369.09	374.02	HC22-1535	2683.42	2343.4	340.02	796.97	524	1075	136.5	521	86.9	165	11.2	65.6	8.77	43.8	7.84	19	2.43	14.15	2.23	7.1
374.02	378.94	HC22-1536	2718.78	2379.5	339.28	802.73	544	1085	138.5	526	86	162.5	11.1	67	8.93	43.3	8.11	18.9	2.48	14.6	2.36	8.3
378.94	383.86	HC22-1537	2691.79	2350.1	341.69	797.32	531	1075	137.5	521	85.6	163.5	11.35	66.7	8.82	44.4	7.98	19.4	2.5	14.75	2.29	7.5
383.86	388.78	HC22-1538	2723.72	2374.8	348.92	810.76	534	1085	140.5	528	87.3	165.5	11.5	68.5	9.06	45.9	8.37	20.1	2.51	15.05	2.43	8.2
388.78	393.70	HC22-1539	2655.61	2321.5	334.11	787.14	527	1060	136	513	85.5	160.5	11	64.5	8.64	44	7.9	18.7	2.4	14.15	2.32	6.6
393.70	398.62	HC22-1540	2631.27	2314.6	316.67	782.25	521	1060	136	513	84.6	152	10.95	62.6	8.15	40.5	7.3	17.15	2.21	13.65	2.16	7.3
398.62	403.54	HC22-1541	2425.08	2150.5	274.58	714.49	495	984	126	471	74.5	128.5	11	56.3	7.19	35.8	6.36	14.6	1.88	11.25	1.7	7.3
403.54	408.46	HC22-1542	2624.49	2294.5	329.99	780.06	506	1060	135	508	85.5	159.5	11.05	63.5	8.56	43	7.79	18.2	2.3	13.85	2.24	7
408.46	413.39	HC22-1543	2703.74	2363.3	340.44	797.18	530	1090	138	519	86.3	162	11.45	66.5	8.88	45	8.09	19.05	2.44	14.65	2.38	6.8
413.39	418.31	HC22-1544	2963.83	2599.7	364.13	889.08	583	1185	154	580	97.7	174.5	11.25	70.9	9.48	47.9	8.68	20.5	2.6	15.8	2.52	8.1
418.31	423.23	HC22-1545	2851.25	2551.4	299.85	838.98	574	1185	149.5	554	88.9	142	11.05	60.7	7.88	38.7	6.94	16.4	2.08	12.1	2	6.9
423.23	428.15	HC22-1546	2956.99	2590.9	366.09	883.61	580	1185	153	577	95.9	175.5	11.4	71.8	9.51	48.2	8.76	20.4	2.65	15.35	2.52	7

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM011	*4,632,699.70*	*475,245.94*	*5,732.99*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
428.15	433.07	HC22-1547	2939.7	2585.2	354.5	876.07	575	1190	151.5	574	94.7	170	11.45	68.9	9.17	46.7	8.36	19.7	2.5	15.25	2.47	6.6
433.07	437.99	HC22-1548	2952.99	2606.6	346.39	880.74	580	1200	153.5	578	95.1	165.5	11.6	68.7	8.94	45.2	8.2	19.3	2.48	14.25	2.22	7.8
437.99	442.91	HC22-1550	3062.34	2716	346.34	908.13	607	1255	159.5	598	96.5	166	11.65	69.3	9.03	45.1	7.97	18.6	2.4	14.15	2.14	7.2
442.91	447.83	HC22-1551	2884.3	2543	341.3	859.51	567	1170	149.5	564	92.5	164	11.35	66.9	8.91	44.6	7.94	18.65	2.51	14.15	2.29	6.9
447.83	452.76	HC22-1552	2836.47	2492.3	344.17	847.65	558	1140	146	556	92.3	166.5	11.3	66.7	8.75	44.6	7.95	19.05	2.45	14.6	2.27	6.6
452.76	457.68	HC22-1553	2837.98	2493	344.98	844.21	563	1140	146.5	553	90.5	164.5	11.4	67.9	9.01	45.2	8.1	19.25	2.51	14.85	2.26	6.6
457.68	462.60	HC22-1554	2743.6	2409	334.6	812.58	543	1105	141.5	530	89.5	161.5	11	65.2	8.58	43	7.79	18.75	2.43	14.2	2.15	7.4
462.60	467.52	HC22-1555	2898.53	2542.6	355.93	857.46	571	1170	150.5	560	91.1	169	11.65	70.6	9.36	46.5	8.49	20.1	2.56	15.2	2.47	6.5
467.52	472.44	HC22-1556	2742.02	2399.1	342.92	817.56	540	1095	141.5	534	88.6	165	11.05	66.6	8.86	44.6	8.06	19.3	2.5	14.7	2.25	6.2
472.44	477.36	HC22-1557	2811.5	2459.2	352.3	832.29	547	1135	144	543	90.2	169	11.45	68.7	9.09	46	8.41	19.7	2.54	15.1	2.31	6.2
477.36	482.28	HC22-1558	2446.12	2146.7	299.42	727	478	988	126.5	475	79.2	144.5	10.35	58	7.8	38.5	6.9	16.5	2.09	12.8	1.98	4.5
482.28	487.20	HC22-1559	2654.42	2334	320.42	794.31	520	1070	137	522	85	152.5	11	62.8	8.41	41.9	7.53	17.85	2.27	13.95	2.21	6
487.20	492.13	HC22-1560	2631.98	2323.2	308.78	779.31	522	1070	135.5	513	82.7	146.5	10.85	61.9	8.01	40.1	7.2	16.95	2.16	12.95	2.16	5.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM012	4,632,498.81	475,194.18	5,731.30	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-1561	1705.52	1517.3	188.22	463.5	310	771	74.5	312	49.8	90.8	7.8	36.1	4.4	22.8	4.17	10.75	1.38	8.77	1.25	13.2
4.92	9.84	HC22-1562	1677.65	1495.5	182.15	451.66	322	747	74.3	304	48.2	89.4	9.47	33.5	4.16	21	3.93	9.82	1.27	8.47	1.13	16.4
9.84	14.76	HC22-1563	910.23	752.5	157.73	259.13	155	359	38.8	168.5	31.2	82.4	9.35	23.5	3.23	17.4	3.4	8.75	1.18	7.46	1.06	18.6
14.76	19.69	HC22-1564	964.55	798.9	165.65	271.09	168.5	381	41.1	176.5	31.8	88.5	8.5	23.9	3.24	18.45	3.41	9.19	1.23	8.1	1.13	19.7
19.69	24.61	HC22-1565	979.05	804.6	174.45	277.6	163.5	387	41.5	179.5	33.1	92.1	9.03	24.8	3.6	19.9	3.77	10.05	1.28	8.65	1.27	20.3
24.61	29.53	HC22-1566	856.9	687.1	169.8	258.96	143	308	37.6	167	31.5	87.1	9.19	25.8	3.46	19.4	3.76	10	1.27	8.59	1.23	19.6
29.53	34.45	HC22-1567	738.09	599.8	138.29	220.65	129	268	32.6	143.5	26.7	72.3	9.05	19.65	2.85	15	2.92	7.79	1.03	6.74	0.96	17.2
34.45	39.37	HC22-1568	659.82	540.2	119.62	193.04	119	243	28.8	126.5	22.9	61.8	9.22	17	2.39	12.45	2.38	6.7	0.85	5.99	0.84	16.2
39.37	44.29	HC22-1570	658.95	542.8	116.15	190.46	123	245	28.4	125	21.4	57.1	8.79	17.35	2.46	13.2	2.53	7.03	0.91	5.94	0.84	14.5
44.29	49.21	HC22-1571	734.6	594.3	140.3	220.31	126	267	31.8	143.5	26	69.2	9.81	21.5	2.96	16.05	3.1	8.58	1.1	6.91	1.09	15
49.21	54.13	HC22-1572	776.52	634.2	142.32	226.42	140	287	33.9	147	26.3	70.6	10.15	21.9	2.97	16.25	3.08	8	1.09	7.21	1.07	15.2
54.13	59.06	HC22-1573	598.12	498.4	99.72	175.27	110	226	27.1	114.5	20.8	51	6.86	14.55	2.02	10.85	2.14	5.73	0.78	4.99	0.8	12.6
59.06	63.98	HC22-1574	759.48	619.6	139.88	231.14	130	277	33.4	151	28.2	71.2	8.99	20.9	2.79	15.75	2.99	8.03	1.12	6.98	1.13	15.9
63.98	68.90	HC22-1575	850.15	707	143.15	246.63	152.5	327	37.2	161	29.3	71.1	9.94	22.3	3.03	16.1	3.14	8.25	1.11	7.04	1.14	15.6
68.90	73.82	HC22-1576	730.75	607.8	122.95	210.6	137	276	32.6	138	24.2	62.5	9.34	18.15	2.45	13.35	2.57	6.84	0.86	5.97	0.92	13
73.82	78.74	HC22-1577	843.95	705.9	138.05	237.91	154	332	36.4	157	26.5	68.7	9.91	20.7	2.81	15.2	2.98	8.23	1.03	7.47	1.02	15
78.74	83.66	HC22-1578	767.54	621.2	146.34	229.9	132.5	278	33.5	149.5	27.7	74	10.2	21.5	2.95	16.25	3.22	8.63	1.14	7.32	1.13	15
83.66	88.58	HC22-1579	800.04	657.5	142.54	232.06	146	298	35.2	151.5	26.8	73.3	9.4	20.8	2.81	15.75	3.09	7.92	1.11	7.3	1.06	14.5
88.58	93.50	HC22-1580	712.71	575.2	137.51	213.45	124	256	31.2	138.5	25.5	69.7	9.71	20.2	2.8	15.45	2.9	7.94	1.09	6.69	1.03	14
93.50	98.43	HC22-1581	611.89	485.6	126.29	194.08	96.4	211	27.4	126	24.8	67	7.62	18.3	2.38	13.5	2.61	7.08	0.94	5.99	0.87	15
98.43	103.35	HC22-1582	787.21	627.7	159.51	246.67	127	275	34.7	160	31	81.7	9.05	24.2	3.27	17.7	3.43	9.3	1.23	8.4	1.23	17.8
103.35	108.27	HC22-1583	784.02	666.1	117.92	240.3	140.5	301	36.4	159.5	28.7	58.7	8.78	19.1	2.5	13.2	2.39	6.34	0.84	5.25	0.82	14.4
108.27	113.19	HC22-1584	656.09	525.4	130.69	209.79	104	229	29.1	137.5	25.8	65.3	9.61	20.4	2.79	14.6	2.71	7.14	0.97	6.28	0.89	14.7
113.19	118.11	HC22-1585	786.74	656.6	130.14	233.81	144.5	296	35.2	153.5	27.4	63.5	9.43	21.3	2.81	14.9	2.74	7.1	0.95	6.45	0.96	16.9
118.11	123.03	HC22-1586	934.86	794.4	140.46	267.97	169.5	375	40.3	178.5	31.1	72	9.21	22.1	2.82	15.25	2.91	7.61	0.97	6.53	1.06	16.2
123.03	127.95	HC22-1587	903.01	769.1	133.91	252.2	166	369	38.7	167	28.4	65.5	9.45	21.7	2.8	15.3	2.9	7.59	0.95	6.76	0.96	14.8
127.95	132.87	HC22-1588	875.89	743.1	132.79	241.88	162	357	37.9	159	27.2	65.6	9.38	21.1	2.88	14.9	2.77	7.45	0.96	6.76	0.99	17
132.87	137.80	HC22-1589	1113.92	975.9	138.02	293.08	221	480	47.9	195.5	31.5	68.2	9.47	22.8	2.93	15.25	2.92	7.66	1.02	6.87	0.9	16.4
137.80	142.72	HC22-1591	929.11	783.5	145.61	261.56	170.5	371	39.6	171.5	30.9	73.3	9.43	22.8	3.06	16.5	3.15	8.14	1.09	7.02	1.12	16.2

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM012	*4,632,498.81*	*475,194.18*	*5,731.30*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-1592	875.59	733.1	142.49	253.16	154	345	38	165.5	30.6	72.6	8.89	22	2.96	16.1	3.02	8.13	1.08	6.63	1.08	15
147.64	152.56	HC22-1593	907.52	760.3	147.22	258.48	158	364	39.4	168	30.9	74.7	9.08	23	3.23	16.95	3.17	8.19	1.04	6.79	1.07	14.8
152.56	157.48	HC22-1594	890.67	748.3	142.37	252.25	153	362	37.9	166	29.4	73.2	7.69	22.4	3.05	15.9	3.04	8.34	1.02	6.71	1.02	15.8
157.48	162.40	HC22-1595	966.83	795.2	171.63	284.62	167	368	43.1	181.5	35.6	85.5	8.87	29	3.72	20.7	3.83	9.89	1.31	7.63	1.18	16.6
162.40	167.32	HC22-1596	918.33	750.8	167.53	277.3	158	339	41.9	178	33.9	84.3	9.29	27.1	3.65	19.85	3.62	9.69	1.28	7.51	1.24	17
167.32	172.24	HC22-1597	868.73	707.2	161.53	262.04	148.5	319	38.6	169.5	31.6	80.7	9.11	26.6	3.49	18.85	3.62	9.28	1.22	7.54	1.12	17
172.24	177.17	HC22-1598	830.86	676.7	154.16	245.42	146.5	306	36.9	158	29.3	77	9.33	24.8	3.22	18	3.42	9.03	1.2	7.06	1.1	17.5
177.17	182.09	HC22-1599	802.2	650.9	151.3	239.13	140	293	35.9	152	30	76.5	9.02	23.6	3.18	18.05	3.27	8.86	1.18	6.59	1.05	16.5
182.09	187.01	HC22-1600	795.35	649	146.35	235.59	139.5	294	35.1	152.5	27.9	73.9	9.25	22.4	2.94	17.15	3.13	8.68	1.06	6.81	1.03	14.7
187.01	191.93	HC22-1601	736.6	588.5	148.1	223.6	123	262	31.9	143.5	28.1	74.2	9.52	23.4	3.1	17	3.27	8.52	1.13	6.95	1.01	13.9
191.93	196.85	HC22-1602	921.52	739	182.52	282.62	151.5	331	41.2	179.5	35.8	92	8.98	30	3.92	22.2	4.01	10.5	1.42	8.24	1.25	19.2
196.85	201.77	HC22-1603	1999.39	1713.7	285.69	539.83	378	838	86.2	350	61.5	147.5	8.55	48.8	6.43	35.7	6.37	16.7	2.11	11.75	1.78	17.8
201.77	206.69	HC22-1604	800.44	646.4	154.04	237.57	138	292	34.8	152	29.6	78.3	9.4	23.7	3.17	18	3.35	8.75	1.16	7.24	0.97	14.4
206.69	211.61	HC22-1605	922.66	734.6	188.06	287.99	147	326	41.3	183	37.3	95.9	8.84	31	4.09	22.3	4.12	11.1	1.42	8.04	1.25	21.2
211.61	216.54	HC22-1606	836.61	672.9	163.71	252.75	141.5	301	36.8	162	31.6	83.6	8.29	25.8	3.4	18.95	3.58	9.94	1.26	7.73	1.16	17.4
216.54	221.46	HC22-1607	816.37	655.4	160.97	248.47	136.5	293	36.2	158.5	31.2	80.2	9.23	26.6	3.47	19.1	3.53	9.27	1.24	7.21	1.12	15.8
221.46	226.38	HC22-1608	899.43	726.1	173.33	274.02	151.5	325	39.7	175.5	34.4	86.7	9.5	28.6	3.72	20.7	3.81	9.99	1.34	7.75	1.22	19.3
226.38	231.30	HC22-1610	850.2	684.7	165.5	259.65	142	306	37.2	167	32.5	82.9	9.51	27.4	3.4	19.55	3.5	9.2	1.26	7.64	1.14	18
231.30	236.22	HC22-1611	758.19	607.1	151.09	231.17	125.5	272	33.4	147	29.2	75.1	8.34	24.4	3.22	18.35	3.3	8.94	1.16	7.21	1.07	17.3
236.22	241.14	HC22-1612	906.73	741.6	165.13	270.18	156	339	40.2	173	33.4	82.9	9.41	26.4	3.63	19.95	3.66	9.3	1.32	7.38	1.18	17.8
241.14	246.06	HC22-1613	741.39	592.4	148.99	221.6	124.5	267	32.4	140	28.5	76.2	7.2	23.1	3.2	17.5	3.35	8.93	1.16	7.29	1.06	14.8
246.06	250.98	HC22-1614	504.24	402.3	101.94	146.48	86.7	183.5	22.2	91.4	18.5	52.8	4.38	15.5	2.13	12.25	2.27	5.91	0.85	5.07	0.78	11.1
250.98	255.91	HC22-1615	784.35	642	142.35	228.63	141	292	34.4	146.5	28.1	72.4	7.02	23	3.03	16.6	3.19	8.3	1.12	6.67	1.02	16.6
255.91	260.83	HC22-1616	1010.21	828.8	181.41	288.57	166.5	399	42.6	184.5	36.2	92.6	8.66	29.1	4.07	21.2	4.05	10.75	1.38	8.24	1.36	18.6
260.83	265.75	HC22-1617	921.5	751.4	170.1	277.52	157.5	340	41.1	179.5	33.3	86.3	9.1	27.8	3.72	19.9	3.66	9.68	1.3	7.5	1.14	17.4
265.75	270.67	HC22-1618	882.77	703.3	179.47	274.12	140.5	314	39.2	175	34.6	91.5	8.9	29.4	3.92	21.4	3.89	10.05	1.37	7.85	1.19	20.2
270.67	275.59	HC22-1619	899.19	714	185.19	283.85	139	317	40.3	181	36.7	93.6	9.09	30.7	3.85	22	4.11	10.85	1.36	8.31	1.32	21.2
275.59	280.51	HC22-1620	1064.03	879.7	184.33	309.54	174	422	46	200	37.7	92.5	9.35	31.2	4.04	21.8	3.97	10.55	1.34	8.28	1.3	22.5
280.51	285.43	HC22-1621	1052.47	862.9	189.57	310.84	164	415	45.7	198.5	39.7	95.3	8.83	32.1	4.34	22.6	4.29	10.95	1.4	8.45	1.31	21.5

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM012	4,632,498.81	475,194.18	5,731.30	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-1622	1359.64	1148.8	210.84	399.68	229	551	59.4	262	47.4	105	8.75	36.7	4.68	26.2	4.71	12.3	1.64	9.38	1.48	25.7
290.35	295.28	HC22-1623	1552.5	1361.8	190.7	428.37	290	671	69	285	46.8	93.6	8.62	34.3	4.27	23.3	4.16	11.05	1.37	8.67	1.36	21.8
295.28	300.20	HC22-1624	1538.77	1349.1	189.67	427.14	287	662	69.2	284	46.9	93.8	8.29	34.9	4.44	22.6	4.11	10.45	1.41	8.43	1.24	22.9
300.20	305.12	HC22-1625	1334.05	1152	182.05	374.06	241	563	58.9	247	42.1	90.1	7.93	32.9	4.16	21.9	3.93	10.3	1.4	8.17	1.26	19.1
305.12	310.04	HC22-1626	1467.14	1271.8	195.34	418.44	264	618	65.3	277	47.5	96.4	8.46	35.6	4.64	24	4.26	11.15	1.44	7.98	1.41	20
310.04	314.96	HC22-1627	1737.55	1544.9	192.65	486.21	327	760	78.3	327	52.6	91.9	9.16	37.6	4.51	23.8	4.19	10.5	1.4	8.29	1.3	20.9
314.96	319.88	HC22-1628	1658.19	1462.6	195.59	468.78	309	713	75.6	314	51	93.7	9.43	37.6	4.58	23.6	4.15	11.1	1.36	8.75	1.32	21.9
319.88	324.80	HC22-1630	1457.78	1274.6	183.18	410.19	267	624	65.4	274	44.2	88.9	9.39	33.4	4.19	22.4	3.94	10.3	1.24	8.14	1.28	18.1
324.80	329.72	HC22-1631	1659.81	1481.7	178.11	455.7	336	715	78.4	304	48.3	87.2	9.32	32	4.2	20.8	3.75	9.54	1.32	8.56	1.42	17.8
329.72	334.65	HC22-1632	1450.23	1281.1	169.13	396.6	287	622	67.7	262	42.4	80.5	9.61	30.8	4.1	20.4	3.69	9.31	1.23	8.11	1.38	17.6
334.65	339.57	HC22-1633	1464.66	1293.7	170.96	408.82	286	623	68.1	271	45.6	82.2	9.57	31	4.12	20	3.81	9.4	1.26	8.14	1.46	17.8
339.57	344.49	HC22-1634	1630.26	1451.4	178.86	447.25	324	706	77.5	297	46.9	84.8	9.99	33	4.45	21.4	4	9.96	1.29	8.61	1.36	18.8
344.49	349.41	HC22-1635	1580.94	1396.9	184.04	435.33	309	679	74	288	46.9	87.3	10.05	34.3	4.53	21.9	4.02	10.1	1.36	9.04	1.44	19
349.41	354.33	HC22-1636	1607.48	1423.8	183.68	448.56	314	688	75.9	297	48.9	85.9	10.5	34.8	4.46	22.3	4.12	9.92	1.34	8.86	1.48	17.8
354.33	359.25	HC22-1637	1575.7	1390.2	185.5	439.84	312	665	74.8	291	47.4	87.9	10.5	34.7	4.44	22.2	4.06	10.1	1.25	8.83	1.52	19.3
359.25	364.17	HC22-1638	1910.49	1717.5	192.99	519.47	406	820	90.6	346	54.9	91.2	10.75	36.9	4.77	23.2	4.17	10.35	1.33	8.82	1.5	19.9
364.17	369.09	HC22-1639	2243.72	2050.5	193.22	573.47	527	978	103.5	385	57	90.5	10.75	37.9	4.67	23.3	4.22	10.2	1.34	8.8	1.54	16.7
369.09	374.02	HC22-1640	2175.43	1971.1	204.33	567.14	503	931	100.5	378	58.6	96.1	10.7	39.4	5.04	25	4.54	10.8	1.47	9.67	1.61	18.2
374.02	378.94	HC22-1641	2110.71	1910.4	200.31	555.71	482	902	97.3	371	58.1	93.6	10.75	39.1	5.01	24.3	4.5	10.8	1.48	9.21	1.56	18.4
378.94	383.86	HC22-1642	1851.44	1667.1	184.34	495.63	387	811	87.9	331	50.2	87.1	10.4	35.7	4.43	22.1	3.94	9.78	1.31	8.28	1.3	15.5
383.86	388.78	HC22-1643	2061.52	1868.4	193.12	538.13	470	888	95.2	359	56.2	92.8	10	36.8	4.63	23.1	4.06	10.05	1.37	8.83	1.48	17.1
388.78	393.70	HC22-1644	2175.3	1963.9	211.4	576.94	494	923	100.5	386	60.4	100.5	10.35	41.5	5.14	24.9	4.68	11.3	1.56	9.85	1.62	17.4
393.70	398.62	HC22-1645	1824.66	1626.2	198.46	502.28	367	786	86.4	334	52.8	95.3	8.8	37.7	4.78	24.3	4.36	10.55	1.49	9.69	1.49	17.2
398.62	403.54	HC22-1646	2026.61	1830.8	195.81	548.99	434	877	95.9	367	56.9	90.9	10.65	38.4	4.89	24.3	4.24	10.8	1.38	8.83	1.42	17.2
403.54	408.46	HC22-1647	2171.51	1964.8	206.71	579.62	491	924	100.5	389	60.3	96.3	10.5	41.4	5.22	24.6	4.52	11.15	1.53	9.99	1.5	18.8
408.46	413.39	HC22-1648	2162.05	1942.3	219.75	580.96	479	915	100.5	385	62.8	101.5	10.55	44.3	5.56	27.1	4.81	12.15	1.6	10.4	1.78	19.6
413.39	418.31	HC22-1649	2140.63	1943.2	197.43	567.42	492	912	99.6	380	59.6	94.9	10.05	38.1	4.72	23.5	4.16	10.4	1.34	8.78	1.48	16.4
418.31	423.23	HC22-1651	2060.79	1860.3	200.49	548.7	463	878	96	365	58.3	95.6	10.4	38.5	4.9	24.5	4.3	10.4	1.43	9.03	1.43	16.6
423.23	428.15	HC22-1652	2062.91	1880.1	182.81	543.56	477	886	95.8	365	56.3	84.9	10.55	36.1	4.46	22	3.9	9.88	1.28	8.37	1.37	12.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM012	4,632,498.81	475,194.18	5,731.30	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
428.15	433.07	HC22-1653	2093.66	1908.1	185.56	550.5	481	903	97.8	370	56.3	85.6	10.5	37.9	4.6	21.8	4.1	9.94	1.3	8.41	1.41	14.6
433.07	437.99	HC22-1654	2170.55	1944.9	225.65	582.17	480	916	100.5	386	62.4	105	10.65	44.9	5.57	27.7	5.02	12.35	1.65	11	1.81	18.6
437.99	442.91	HC22-1655	2242.75	2035.2	207.55	586.05	519	961	103.5	392	59.7	96	10.65	41.7	5.25	25.6	4.61	11.15	1.46	9.56	1.57	15.4
442.91	447.83	HC22-1656	2274.04	2050.2	223.84	604.03	506	973	106	400	65.2	103.5	11.15	46	5.63	27.2	4.89	11.85	1.6	10.4	1.62	16.8
447.83	452.76	HC22-1657	2146.26	1946.1	200.16	566.35	489	920	99.7	378	59.4	91.1	11.3	41.3	5.05	24.2	4.39	10.65	1.42	9.21	1.54	14.8
452.76	457.68	HC22-1658	1908	1743.5	164.5	521.09	407	838	92.9	353	52.6	78.2	9.61	31.9	3.84	18.75	3.62	9.04	1.2	7.17	1.17	9.1
457.68	462.60	HC22-1659	1786.16	1630.8	155.36	484.25	382	786	85.6	329	48.2	75.6	9.36	29.3	3.6	17.85	3.36	7.61	1.12	6.48	1.08	8
462.60	467.52	HC22-1660	1833.23	1645.4	187.83	497.16	377	799	87.2	329	53.2	86.4	10.3	37.8	4.66	23.1	4.08	9.98	1.34	8.78	1.39	13.2
467.52	472.44	HC22-1661	2109.3	1878.9	230.4	570.29	450	892	96.8	377	63.1	110	10.65	44.9	5.69	27.7	5.1	12.05	1.64	10.95	1.72	16.4
472.44	477.36	HC22-1662	2228.83	1988.8	240.03	602.65	489	932	101.5	400	66.3	114	10.9	47.3	5.85	29	5.31	12.65	1.68	11.5	1.84	16.5
477.36	482.28	HC22-1663	2287.78	2055.5	232.28	608.53	517	965	105	403	65.5	110	10.8	45.8	5.83	29.2	4.97	12.2	1.6	10.1	1.78	17.6
482.28	487.20	HC22-1664	2480.66	2250.4	230.26	656.24	563	1065	114	438	70.4	108	10.75	47.2	5.84	28	4.97	11.85	1.5	10.45	1.7	18
487.20	492.13	HC22-1665	2487.32	2243.2	244.12	666.78	564	1050	116	442	71.2	111	11.05	51.7	6.38	31.2	5.47	12.95	1.72	10.85	1.8	18.5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM013	4,632,320.59	475,200.04	5,725.98	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-1666	1432.59	1248.6	183.99	403.5	263	609	65.2	265	46.4	88.1	8.81	34.2	4.4	22.5	3.99	10.05	1.4	9	1.54	17.8
4.92	9.84	HC22-1667	924.42	787.7	136.72	270.83	178	357	43.7	178.5	30.5	70.5	8.95	20.8	2.78	15.35	2.86	7.26	1.03	6.22	0.97	13
9.84	14.76	HC22-1668	928.2	795	133.2	274.59	180.5	358	43.8	182.5	30.2	67.8	8.77	21	2.89	15.2	2.73	7.04	0.95	5.88	0.94	9.8
14.76	19.69	HC22-1670	950.05	802.8	147.25	286.2	176	360	45	188	33.8	75	8.62	23.8	3.15	16.25	3.07	7.76	1.11	7.35	1.14	12.4
19.69	24.61	HC22-1671	929.76	782.5	147.26	280.17	167.5	355	44.3	183	32.7	73.8	8.98	23.9	3.27	16.9	3.07	8.31	1.12	6.82	1.09	12.8
24.61	29.53	HC22-1672	845.1	699.6	145.5	262.85	148	308	40.5	171	32.1	74.7	8.61	22.9	3.1	16.15	3.11	8.09	1.12	6.6	1.12	12.6
29.53	34.45	HC22-1673	542.55	455.7	86.85	159.84	99.1	208	25.3	104.5	18.8	44.6	5.5	13.55	1.82	9.42	1.88	4.72	0.67	4.05	0.64	8.2
34.45	39.37	HC22-1674	773.11	633.2	139.91	235.96	130.5	285	36.2	152.5	29	71.8	8.94	21.7	2.86	15.4	2.93	7.71	1.04	6.45	1.08	13.4
39.37	44.29	HC22-1675	1109.28	922	187.28	334.93	192.5	419	51.4	219	40.1	97.3	10.1	29.4	4.03	20.4	4	10.25	1.49	8.95	1.36	17.9
44.29	49.21	HC22-1676	870.25	725.7	144.55	263.89	154	327	39.9	173	31.8	74.6	8.51	22.3	2.99	16.2	3.09	8.03	1.12	6.62	1.09	14.2
49.21	54.13	HC22-1677	849.52	706.2	143.32	260.64	148	317	39.8	170	31.4	72.1	9.3	22.6	3.09	16.35	2.95	7.97	1.06	6.8	1.1	13.8
54.13	59.06	HC22-1678	756.8	623.7	133.1	227.51	132	282	35.4	147.5	26.8	68.7	7.42	20.6	2.71	15.1	2.78	7.28	1	6.44	1.07	12
59.06	63.98	HC22-1679	1102.51	898.4	204.11	353.99	175	397	52.3	230	44.1	107	8.36	32.5	4.29	23.3	4.49	11.15	1.59	9.81	1.62	19.8
63.98	68.90	HC22-1680	910.42	756.5	153.92	277.6	158	341	43	181	33.5	78.6	9.04	24.5	3.35	16.75	3.25	8.72	1.22	7.26	1.23	14.2
68.90	73.82	HC22-1681	945.02	781.9	163.12	292.93	161	350	44.7	192	34.2	83.4	8.95	26.4	3.58	18.45	3.56	8.91	1.21	7.44	1.22	14.8
73.82	78.74	HC22-1682	1008.48	844.5	163.98	306.38	177	383	47.2	201	36.3	84.1	9.24	25.7	3.53	18.35	3.52	8.85	1.3	8.13	1.26	15.8
78.74	83.66	HC22-1683	1011.24	842	169.24	311.66	173	380	47.8	204	37.2	87.2	9.23	26.2	3.51	19.15	3.44	9.55	1.3	8.33	1.33	14
83.66	88.58	HC22-1684	1050.66	864.8	185.86	330.26	172.5	387	49.9	217	38.4	95.4	9.16	30.4	4.06	20.9	4.11	10.05	1.49	8.85	1.44	18
88.58	93.50	HC22-1685	1020.21	840.9	179.31	317.16	169.5	378	49	207	37.4	92.1	9.08	28.9	3.76	20	3.86	10.15	1.35	8.78	1.33	15.6
93.50	98.43	HC22-1686	912.06	757.8	154.26	279.93	156	342	43	183	33.8	80	9.25	23.5	3.28	16.85	3.31	8.49	1.15	7.29	1.14	13
98.43	103.35	HC22-1687	976.99	820.9	156.09	294.84	174	373	46.5	192.5	34.9	80.1	9.33	24.3	3.34	17.6	3.27	8.29	1.23	7.42	1.21	14.9
103.35	108.27	HC22-1688	1034.11	863.3	170.81	316.48	179	391	49	207	37.3	87.4	8.87	27.3	3.73	19.45	3.69	9.47	1.34	8.17	1.39	14.8
108.27	113.19	HC22-1690	995.72	848.7	147.02	291.29	186	391	47.4	191	33.3	74.6	9.12	23.9	3.19	16.4	3.12	7.56	1.12	6.94	1.07	13.2
113.19	118.11	HC22-1691	1100.21	918.8	181.41	328.51	191	423	50.9	215	38.9	94	9.04	28.9	3.81	19.9	3.82	10.3	1.39	8.74	1.51	16
118.11	123.03	HC22-1692	970.36	811.2	159.16	295.6	171	366	45.3	194.5	34.4	81.7	9.13	25.1	3.4	18	3.51	8.63	1.21	7.23	1.25	15.8
123.03	127.95	HC22-1693	1087.05	919.3	167.75	323.82	197	421	51.3	213	37	87	8.46	26.4	3.62	18.9	3.58	9.4	1.25	7.85	1.29	17.4
127.95	132.87	HC22-1694	1044.66	859.9	184.76	330.17	170	385	49.3	216	39.6	95.3	8.48	29.2	4.07	21.2	4.16	10.4	1.43	9.03	1.49	17.1
132.87	137.80	HC22-1695	1124.38	943	181.38	334.47	194	439	51.9	218	40.1	93.6	8.84	29.3	3.87	20.6	3.94	9.92	1.41	8.58	1.32	18.4
137.80	142.72	HC22-1696	902.71	753.3	149.41	269.16	161.5	342	42.6	176	31.2	77.5	9.39	23.1	3.16	16.2	3.06	8.04	1.15	6.71	1.1	13.2

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM013	4,632,320.59	475,200.04	5,725.98	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-1697	1036.85	875.1	161.75	306.29	189.5	401	47.7	201	35.9	83.3	9.27	25.4	3.44	18.25	3.58	8.49	1.19	7.56	1.27	14.6
147.64	152.56	HC22-1698	1021.57	854.5	167.07	305.19	182.5	389	48.2	199	35.8	86.3	10	25.7	3.49	18.7	3.63	9.18	1.28	7.53	1.26	15.8
152.56	157.48	HC22-1699	956.21	796.9	159.31	290.14	168	360	45.1	188.5	35.3	82.9	9.09	24.1	3.34	17.9	3.24	8.94	1.15	7.46	1.19	12.8
157.48	162.40	HC22-1700	985.39	823.7	161.69	295.98	176	373	45.9	194	34.8	83.1	9.46	25.2	3.38	17.9	3.45	9.07	1.21	7.71	1.21	13.8
162.40	167.32	HC22-1701	1050.58	887.2	163.38	297.2	180	433	45.9	191.5	36.8	79.5	9.49	27.8	3.65	19.35	3.62	9.61	1.21	7.85	1.3	21.4
167.32	172.24	HC22-1702	1055.41	870.1	185.31	311.22	169.5	416	46.3	199.5	38.8	89.7	9.86	31.3	4.22	22.4	4.14	11.3	1.5	9.39	1.5	24.4
172.24	177.17	HC22-1703	1070.04	903.6	166.44	302.84	185	439	47.2	195.5	36.9	82.4	9.16	27.3	3.64	19.6	3.6	9.73	1.26	8.41	1.34	22.6
177.17	182.09	HC22-1704	1078.7	909.8	168.9	303.29	186.5	444	47.2	195.5	36.6	82.1	9.79	27.9	3.79	20.2	3.77	9.9	1.32	8.77	1.36	22.4
182.09	187.01	HC22-1705	979.76	810.3	169.46	281.03	158.5	394	41.6	180	36.2	83	9.81	28.1	3.73	19.5	3.68	10.15	1.34	8.74	1.41	22.4
187.01	191.93	HC22-1706	1056.41	889.6	166.81	297.07	182.5	433	45.9	192	36.2	82.2	9.28	27.7	3.77	19.2	3.55	9.73	1.31	8.79	1.28	22.2
191.93	196.85	HC22-1707	921.04	762.3	158.74	267.42	151	365	40.4	172	33.9	80	9.17	25	3.37	17.75	3.49	9.23	1.26	8.14	1.33	21.3
196.85	201.77	HC22-1708	946.85	777.6	169.25	274.98	151.5	375	41.2	175.5	34.4	82.2	9.92	28.1	3.78	20.1	3.78	9.67	1.31	8.97	1.42	21.5
201.77	206.69	HC22-1709	998.89	830	168.89	287.41	163	403	43.4	184.5	36.1	83.5	9.6	27.5	3.76	19.65	3.76	9.8	1.32	8.62	1.38	22.1
206.69	211.61	HC22-1711	1047.17	868.9	178.27	300.03	175.5	418	45.7	191.5	38.2	88.2	9.97	28.7	3.93	20.7	3.88	10.7	1.42	9.32	1.45	22.1
211.61	216.54	HC22-1712	1035.44	852	183.44	300.18	169	409	44.8	191.5	37.7	88.3	10.25	30.8	4.18	22	4.04	10.9	1.48	10	1.49	22.5
216.54	221.46	HC22-1713	999.96	822.7	177.26	293.8	159	394	43.6	188	38.1	89.2	9.52	28.5	3.8	20.3	3.89	10.4	1.37	8.94	1.34	23.1
221.46	226.38	HC22-1714	971.52	791.9	179.62	287.38	151	378	42.7	183	37.2	90.7	9.15	29	3.88	20.6	3.98	10.5	1.39	8.98	1.44	23
226.38	231.30	HC22-1715	987.97	817.4	170.57	283.35	163.5	394	43.5	180.5	35.9	84.6	9.77	27.5	3.8	19.65	3.71	10.1	1.29	8.75	1.4	22.4
231.30	236.22	HC22-1716	976.99	794	182.99	292.66	151	375	42.2	186.5	39.3	91.9	9.31	29.5	3.96	20.7	4.08	11.25	1.41	9.37	1.51	22.6
236.22	241.14	HC22-1717	1004.99	809.9	195.09	304.24	151	382	43.1	193.5	40.3	94.5	9.88	33.1	4.54	22.8	4.44	11.95	1.63	10.6	1.65	21.9
241.14	246.06	HC22-1718	943.73	752.1	191.63	293.36	135.5	351	41.1	184	40.5	93.6	9.08	32.2	4.46	23.3	4.44	11.4	1.49	10.1	1.56	21.4
246.06	250.98	HC22-1719	692.66	534.5	158.16	220.42	92.7	244	29	136.5	32.3	78.8	6.93	25.6	3.52	19.1	3.51	9.58	1.33	8.49	1.3	19
250.98	255.91	HC22-1720	2490.77	2287.8	202.97	639.37	572	1105	112	432	66.8	98.6	8.08	39.9	4.97	23.6	4.25	11.2	1.41	9.42	1.54	21.2
255.91	260.83	HC22-1721	2983.58	2745.6	237.98	778.89	681	1320	136	527	81.6	111	10.05	50.7	6.09	28.2	5.17	12.7	1.6	10.75	1.72	24.7
260.83	265.75	HC22-1722	2630.52	2406.7	223.82	697.11	577	1165	119.5	471	74.2	104.5	9.71	46.9	5.71	26.7	4.68	12.2	1.61	10.25	1.56	22.1
265.75	270.67	HC22-1723	2871.64	2623.3	248.34	762.59	643	1255	130	514	81.3	112.5	10.8	53.8	6.49	30.8	5.44	13.8	1.77	11.1	1.84	24
270.67	275.59	HC22-1724	2857.5	2611.6	245.9	753.47	635	1260	131	506	79.6	111	10.6	52.7	6.37	30.5	5.42	13.9	1.72	11.8	1.89	23.7
275.59	280.51	HC22-1725	2996	2734.7	261.3	795.83	669	1310	136.5	535	84.2	116.5	11.05	57.4	6.93	33.2	5.62	14.45	1.9	12.25	2	25.1
280.51	285.43	HC22-1726	2920.64	2673.5	247.14	771.28	649	1290	133	519	82.5	114	10.35	52.1	6.28	30.5	5.29	13.85	1.7	11.3	1.77	23

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM013	*4,632,320.59*	*475,200.04*	*5,725.98*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-1727	3071.08	2817.8	253.28	813.29	687	1355	140.5	551	84.3	116	10.45	55.1	6.49	31	5.36	13.65	1.73	11.6	1.9	25
290.35	295.28	HC22-1728	2869.1	2627.7	241.4	751.31	643	1270	131	505	78.7	108	10.45	53.1	6.41	30.2	5.27	13.25	1.7	11.2	1.82	23.8
295.28	300.20	HC22-1730	2876.44	2631.2	245.24	757.73	641	1270	131	509	80.2	109.5	10.65	53.9	6.43	31.1	5.37	13.5	1.73	11.2	1.86	24.2
300.20	305.12	HC22-1731	2914.14	2685.2	228.94	811.6	646	1260	144	555	80.2	108	10.35	48.3	5.6	26.8	4.92	11.85	1.52	10.05	1.55	13.3
305.12	310.04	HC22-1732	2867.2	2634.9	232.3	804.73	624	1240	141.5	552	77.4	110	10.3	47.9	5.73	28.1	4.95	12.25	1.61	9.84	1.62	14.1
310.04	314.96	HC22-1733	3312.9	3041.8	271.1	927.18	729	1425	162.5	631	94.3	129	10.05	56.8	6.68	32.7	5.98	14.25	1.95	11.65	2.04	15.5
314.96	319.88	HC22-1734	3571.53	3289.5	282.03	1003.1	787	1540	177.5	687	98	135.5	10.4	59.1	7.1	33.5	5.91	14.8	1.95	11.8	1.97	16.6
319.88	324.80	HC22-1735	2871.31	2634	237.31	806.46	617	1245	142	549	81	112.5	10.1	49.3	5.86	28.6	5.21	12.4	1.64	10.1	1.6	15
324.80	329.72	HC22-1736	2943.94	2702.4	241.54	826.04	631	1280	146.5	563	81.9	116	10.3	49.3	6.04	28.6	5.23	12.85	1.65	9.83	1.74	12.2
329.72	334.65	HC22-1737	3062.85	2836.5	226.35	850.83	674	1345	151.5	583	83	106	9.81	47.7	5.63	27.7	4.89	11.9	1.53	9.55	1.64	11.8
334.65	339.57	HC22-1738	3064.66	2818	246.66	860.65	668	1325	151.5	587	86.5	117	10.05	52	6.05	29.6	5.28	12.7	1.68	10.5	1.8	15
339.57	344.49	HC22-1739	2809.75	2542.6	267.15	807.26	584	1190	138	546	84.6	131	9.85	52.3	6.46	32.2	5.72	14.3	1.84	11.45	2.03	15
344.49	349.41	HC22-1740	3376.32	3088.4	287.92	959.34	726	1445	166.5	655	95.9	137	10.45	60.8	7.24	34.7	6.12	15.15	2	12.5	1.96	18.2
349.41	354.33	HC22-1741	3452.82	3156.6	296.22	983.34	762	1455	172.5	669	98.1	141	10.45	62	7.44	36.3	6.52	15.7	2.09	12.65	2.07	18.6
354.33	359.25	HC22-1742	3601.89	3296	305.89	1019.75	780	1540	179.5	694	102.5	148.5	10.85	63.1	7.45	36.3	6.57	15.9	2.06	13.05	2.11	15.9
359.25	364.17	HC22-1743	3403.28	3122.7	280.58	960.73	742	1460	169	655	96.7	136	10.15	57.9	7.03	33	5.92	14.6	1.85	12.1	2.03	14.9
364.17	369.09	HC22-1744	3368.71	3097.9	270.81	949.58	733	1455	168	648	93.9	128.5	10.7	56.5	6.68	33	5.7	14.3	1.84	11.7	1.89	15.2
369.09	374.02	HC22-1745	2914.25	2676.2	238.05	818.22	627	1265	142	561	81.2	112	10.8	50.2	6.02	28	5.09	12.5	1.5	10.3	1.64	12.1
374.02	378.94	HC22-1746	2898.38	2658.1	240.28	803.28	625	1265	141.5	547	79.6	113.5	10.25	49.8	6.08	29.1	5.16	12.95	1.63	10.05	1.76	12.8
378.94	383.86	HC22-1747	3368.87	3099.7	269.17	932.68	731	1475	166	636	91.7	129	10.9	55.8	6.58	32.4	5.58	13.75	1.87	11.4	1.89	15
383.86	388.78	HC22-1748	3176.96	2925.7	251.26	879.07	693	1390	157	600	85.7	118.5	10.65	53.1	6.27	30.1	5.3	12.95	1.69	10.9	1.8	14.4
388.78	393.70	HC22-1750	3192.26	2934.6	257.66	876.14	701	1395	157.5	594	87.1	120.5	11.1	55.1	6.44	31.1	5.64	13.6	1.75	10.6	1.83	13.8
393.70	398.62	HC22-1751	3198.8	2944.8	254	890.18	711	1380	159	606	88.8	120	10.75	53.7	6.48	29.9	5.46	13.3	1.79	10.95	1.67	13.2
398.62	403.54	HC22-1752	3086.24	2835.2	251.04	852.85	683	1335	153.5	578	85.7	120	10.75	52.2	6.15	29.5	5.36	13.1	1.63	10.55	1.8	14.4
403.54	408.46	HC22-1753	2134.31	1944.1	190.21	586.21	463	922	103.5	398	57.6	92.9	7.28	37.3	4.61	22.5	4	10.15	1.41	8.66	1.4	10.4
408.46	413.39	HC22-1754	3234.38	2971.1	263.28	892.81	706	1410	160	607	88.1	126.5	10.7	54.6	6.41	31.3	5.63	13.55	1.75	11	1.84	12.9
413.39	418.31	HC22-1755	3347.15	3084.3	262.85	929.56	744	1450	165	635	90.3	123	10.95	56.4	6.76	32.5	5.62	13.35	1.71	10.7	1.86	13.8
418.31	423.23	HC22-1756	2885.37	2645.1	240.27	804.71	625	1250	141.5	548	80.6	114	10.7	50	5.91	28.7	5.16	12.75	1.64	9.71	1.7	15.5
423.23	428.15	HC22-1757	3197.73	2938.1	259.63	892.02	709	1375	158	610	86.1	122.5	10.9	54.1	6.62	31.3	5.69	13.65	1.81	11.25	1.81	14.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM013	4,632,320.59	475,200.04	5,725.98	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
428.15	433.07	HC22-1758	3286.37	3031	255.37	911.18	732	1425	163	623	88	120.5	10.85	54.2	6.48	30.7	5.49	13	1.65	10.8	1.7	13.8
433.07	437.99	HC22-1759	2913.53	2683	230.53	804.25	648	1265	145	547	78	107	10.4	48.8	5.85	28.4	4.89	12.2	1.64	9.74	1.61	11.4
437.99	442.91	HC22-1760	3125.18	2865	260.18	860	692	1350	154	583	86	126	10.4	53.2	6.2	30.8	5.46	13.1	1.75	11.4	1.87	12.8
442.91	447.83	HC22-1761	2225.79	2020.4	205.39	615.96	475	959	109	415	62.4	100.5	7.17	40.6	4.96	24.6	4.56	10.75	1.47	9.27	1.51	8.7
447.83	452.76	HC22-1762	1415.97	1255.1	160.87	386.48	285	606	68	254	42.1	84.2	4.31	27.7	3.53	18.85	3.35	9.03	1.28	7.44	1.18	5.3
452.76	457.68	HC22-1763	3074.37	2807.3	267.07	856.11	669	1320	151	582	85.3	130	10.45	53.9	6.51	31.3	5.71	14.25	1.72	11.3	1.93	13.8
457.68	462.60	HC22-1764	2828.13	2577.1	251.03	788.92	600	1225	140	533	79.1	121	10.3	50.7	6.32	30.5	5.33	12.75	1.67	10.7	1.76	12.8
462.60	467.52	HC22-1765	3279.72	3012.7	267.02	910.54	716	1425	161	621	89.7	127	10.95	55.8	6.54	32.3	5.73	13.8	1.83	11.25	1.82	14.2
467.52	472.44	HC22-1766	3306.48	3043.2	263.28	916.59	725	1440	163.5	625	89.7	124.5	11.1	55.7	6.79	31.6	5.5	13.65	1.73	10.85	1.86	11.8
472.44	477.36	HC22-1767	3355.1	3097	258.1	897.83	756	1480	165.5	607	88.5	124	10.45	54.1	6.23	30.6	5.35	12.75	1.77	11.05	1.8	12.4
477.36	482.28	HC22-1768	3033.67	2760.9	272.77	837.32	653	1310	151	562	84.9	132	10.2	55.5	6.92	32.5	5.78	14.55	1.86	11.5	1.96	13.6
482.28	487.20	HC22-1769	2974.74	2717.8	256.94	817.29	653	1285	148	548	83.8	123	10.2	52.6	6.59	30.9	5.47	13.4	1.76	11.2	1.82	12.2
487.20	492.13	HC22-1771	3246.26	2980.8	265.46	882.15	713	1425	159	594	89.8	126	10.15	55.6	6.85	32.5	5.68	13.35	1.84	11.7	1.79	14.1

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM014	*4,632,135.08*	*475,196.49*	*5,743.98*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-1772	2413.6	2186.3	227.3	666.97	517	1035	119.5	445	69.8	110.5	8.36	46	5.77	26.9	4.81	11.95	1.54	9.92	1.55	8.8
4.92	9.84	HC22-1773	3229.25	2969.6	259.65	895.84	727	1385	163	603	91.6	122.5	9.9	57.3	6.84	31.4	5.38	12.35	1.65	10.55	1.78	8.9
9.84	14.76	HC22-1774	3060.26	2809.4	250.86	831.46	685	1330	153	558	83.4	117.5	9.44	54.1	6.46	30.6	5.36	13.1	1.64	10.85	1.81	9.1
14.76	19.69	HC22-1775	2787.43	2555.4	232.03	762.12	613	1215	140	510	77.4	109	9.96	49.5	6.02	28.7	4.85	11.6	1.44	9.41	1.55	7.8
19.69	24.61	HC22-1776	3069.7	2817.2	252.5	837.48	677	1340	151.5	563	85.7	117	10.55	56.1	6.48	30.8	5.19	12.75	1.58	10.25	1.8	9.4
24.61	29.53	HC22-1777	3242.92	2984.2	258.72	886.5	716	1420	161.5	595	91.7	120	10.15	57.9	6.9	31.4	5.56	12.85	1.67	10.5	1.79	9.1
29.53	34.45	HC22-1778	2826.84	2593.2	233.64	774.44	628	1225	141.5	519	79.7	108	9.73	52.2	6.04	28.2	4.89	11.95	1.58	9.55	1.5	7.6
34.45	39.37	HC22-1779	3196.07	2935.1	260.97	883.11	706	1385	160.5	592	91.6	121	10.3	57.8	7.01	32	5.51	13	1.73	10.9	1.72	8.9
39.37	44.29	HC22-1780	3174	2916.8	257.2	872.73	698	1385	158.5	585	90.3	118.5	10.25	57.1	6.73	32.2	5.39	12.75	1.63	10.9	1.75	8.3
44.29	49.21	HC22-1781	3181.83	2921.8	260.03	872.94	712	1375	157.5	589	88.3	120.5	10.4	58	6.64	31.5	5.55	13.25	1.66	10.8	1.73	9.3
49.21	54.13	HC22-1782	3011.83	2755.6	256.23	821.46	671	1300	149.5	551	84.1	123	9.65	54.2	6.46	30.4	5.38	13	1.62	10.75	1.77	8.1
54.13	59.06	HC22-1783	3098.73	2849.3	249.43	851.52	695	1340	153	573	88.3	114	10.3	56.5	6.62	30.6	5.35	12.45	1.59	10.25	1.77	9
59.06	63.98	HC22-1784	3443.79	3167.5	276.29	944.83	769	1495	171.5	635	97	128	10.75	61.7	7.43	33.9	5.86	13.45	1.79	11.5	1.91	7.6
63.98	68.90	HC22-1785	3418.59	3129.9	288.69	939.67	749	1485	170	626	99.9	135	10.45	64.4	7.77	36	6.24	13.7	1.92	11.35	1.86	8.6
68.90	73.82	HC22-1786	3170.38	2906.5	263.88	870.55	701	1375	157	583	90.5	121	10.35	59.9	7.15	32.9	5.43	13.05	1.65	10.7	1.75	8.5
73.82	78.74	HC22-1787	3320.48	3041.2	279.28	909.9	733	1440	164	608	96.2	131.5	9.65	61.4	7.5	34.2	5.95	13.55	1.78	11.85	1.9	9.2
78.74	83.66	HC22-1788	3309.44	3031.1	278.34	906.57	731	1435	164.5	607	93.6	132.5	9.54	59.8	7.37	34.1	5.9	13.8	1.93	11.6	1.8	9
83.66	88.58	HC22-1790	3509.95	3237	272.95	966.79	776	1535	175	652	99	126	10.25	62	7.39	33.4	5.77	13.7	1.74	10.95	1.75	11.5
88.58	93.50	HC22-1791	3558.5	3283	275.5	983.54	781	1560	176	665	101	126.5	10.3	63.6	7.34	34.2	5.93	13.05	1.7	11.1	1.78	9.6
93.50	98.43	HC22-1792	3428.51	3163.8	264.71	942.39	761	1500	171	636	95.8	122.5	10.5	59	7.09	32.5	5.61	13.15	1.66	10.9	1.8	9.5
98.43	103.35	HC22-1793	3645.46	3360.5	284.96	1001.37	797	1605	183	674	101.5	131.5	10.6	64.8	7.67	35.2	6.08	13.95	1.91	11.45	1.8	10.3
103.35	108.27	HC22-1794	3576.37	3286.3	290.07	977.39	792	1560	178	657	99.3	135.5	10.85	63.6	7.69	35.4	6.2	14.95	1.91	12.05	1.92	8.6
108.27	113.19	HC22-1795	3356.06	3072.4	283.66	936.52	733	1445	167.5	631	95.9	132	10.65	63	7.32	34.8	5.95	14	1.92	12.05	1.97	9.8
113.19	118.11	HC22-1796	3717.51	3432	285.51	1018.88	851	1605	186	687	103	132.5	11.2	64	7.68	35.2	5.94	14.2	1.86	11.15	1.78	11.6
118.11	123.03	HC22-1797	3447.81	3171.5	276.31	942.5	760	1510	170.5	635	96	127.5	9.9	63.2	7.4	33.6	5.94	13.65	1.81	11.45	1.86	8.9
123.03	127.95	HC22-1798	3657.65	3365.5	292.15	1004.92	815	1590	183.5	674	103	136	10.85	65.4	7.82	36.6	6.21	14.15	1.84	11.45	1.83	9
127.95	132.87	HC22-1799	3657.76	3365	292.76	1011.99	801	1595	183	681	105	136.5	10.6	65.7	7.69	35.3	6.15	14.65	1.91	12.35	1.91	8.7
132.87	137.80	HC22-1800	3491.22	3216	275.22	957.27	795	1505	174.5	644	97.5	126.5	10.9	62.5	7.07	34.2	5.87	13.55	1.7	10.95	1.98	9.6
137.80	142.72	HC22-1801	3283.98	3018.3	265.68	901.58	727	1430	162.5	606	92.8	121.5	10.45	60.7	7.08	33.2	5.83	12.85	1.7	10.65	1.72	8.5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM014	4,632,135.08	475,196.49	5,743.98	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-1802	3485.22	3213.5	271.72	950.83	778	1525	174.5	639	97	124.5	10.65	62.6	7.23	33.1	5.67	13.45	1.72	11.05	1.75	9.2
147.64	152.56	HC22-1803	3032.92	2780.9	252.02	795.45	679	1345	140.5	529	87.4	115	10.05	56	6.65	31.9	5.49	12.85	1.67	10.75	1.66	13.4
152.56	157.48	HC22-1804	3265.5	2995.5	270	867.27	729	1440	152	577	97.5	122	11.25	61.6	7.07	33.7	5.72	13.7	1.79	11.35	1.82	14
157.48	162.40	HC22-1805	3253.65	2992.2	261.45	857.1	729	1445	151	573	94.2	121.5	10.05	58.1	6.8	32.1	5.46	13.5	1.74	10.5	1.7	14.2
162.40	167.32	HC22-1806	3197.49	2928.6	268.89	851.76	707	1410	149	567	95.6	125.5	10.25	59	6.96	33.2	5.6	13.9	1.78	11	1.7	14
167.32	172.24	HC22-1807	3099.3	2832.1	267.2	816.07	686	1370	144	540	92.1	124	10.75	58.5	6.87	33.1	5.6	13.95	1.73	11	1.7	14.4
172.24	177.17	HC22-1808	3430.98	3139.5	291.48	908.85	754	1520	160	605	100.5	138	10.7	62.3	7.45	35.9	6.12	15	1.94	12.2	1.87	16
177.17	182.09	HC22-1810	2906.91	2656	250.91	763.39	651	1280	134.5	506	84.5	115	10.65	54.9	6.59	31.8	5.22	13.25	1.65	10.25	1.6	13.8
182.09	187.01	HC22-1811	3095.02	2842.5	252.52	804.5	706	1370	144	535	87.5	113.5	11.3	57.2	6.5	31.5	5.32	13.3	1.62	10.55	1.73	15.8
187.01	191.93	HC22-1812	3209.37	2955.3	254.07	837.56	726	1430	150	559	90.3	115	11.25	57.7	6.56	31.7	5.32	12.9	1.66	10.4	1.58	15.2
191.93	196.85	HC22-1813	2912.06	2683.3	228.76	759.15	663	1295	136	507	82.3	105	10.05	51.1	5.95	27.9	4.69	11.8	1.44	9.27	1.56	12.9
196.85	201.77	HC22-1814	3680.23	3402.5	277.73	961.46	837	1645	172.5	645	103	129	11.25	62.7	7.26	33.7	5.62	13.9	1.72	10.8	1.78	16
201.77	206.69	HC22-1815	2552.96	2346.3	206.66	666.65	575	1135	117.5	445	73.8	95.6	8.71	46.2	5.35	25	4.35	10.3	1.36	8.43	1.36	12.1
206.69	211.61	HC22-1816	2527.17	2328.1	199.07	653.52	574	1130	117	438	69.1	89.7	10.4	44.5	5.12	24.3	4.05	9.98	1.18	8.55	1.29	12.9
211.61	216.54	HC22-1817	2821.55	2611.1	210.45	732.67	644	1265	131.5	492	78.6	97.5	10.05	46.3	5.37	25.2	4.25	10.4	1.33	8.67	1.38	14.5
216.54	221.46	HC22-1818	3452.15	3197.8	254.35	894.45	787	1555	162	598	95.8	112	11.65	60.1	6.75	31.9	5.24	12.75	1.7	10.6	1.66	15.4
221.46	226.38	HC22-1819	3186.81	2952.6	234.21	822.16	735	1430	149	550	88.6	107	10.3	52.8	5.96	28.6	4.83	12	1.52	9.66	1.54	14
226.38	231.30	HC22-1820	3122.02	2886.1	235.92	809.89	707	1405	145.5	542	86.6	106	10.75	53.3	6.19	29.6	4.9	12.05	1.55	9.94	1.64	14.5
231.30	236.22	HC22-1821	3066.68	2839.9	226.78	791.17	703	1380	143	530	83.9	100.5	10.75	52.1	6.07	28.2	4.76	11.95	1.46	9.45	1.54	13.5
236.22	241.14	HC22-1822	3347.55	3091.9	255.65	863.37	762	1505	157	577	90.9	114.5	11.4	58.3	6.77	31.7	5.38	13.15	1.7	11	1.75	14.5
241.14	246.06	HC22-1823	2937.59	2688.2	249.39	767.76	662	1295	136	511	84.2	116.5	10.9	53.6	6.16	30.4	5.1	12.7	1.61	10.7	1.72	15.2
246.06	250.98	HC22-1824	2722.89	2501.7	221.19	703.95	615	1215	125.5	469	77.2	100.5	10.9	49.4	5.65	26.6	4.62	11.1	1.47	9.59	1.36	13.4
250.98	255.91	HC22-1825	3043.96	2816.5	227.46	787.66	692	1370	143	528	83.5	104	10.9	50.7	5.76	27.4	4.59	11.6	1.47	9.52	1.52	13.9
255.91	260.83	HC22-1826	3069.84	2830.1	239.74	796.12	700	1370	144	531	85.1	108.5	10.95	53.8	6.22	29.8	5.02	12.3	1.53	10.1	1.52	15.3
260.83	265.75	HC22-1827	3167.62	2905.1	262.52	824.38	710	1410	147.5	548	89.6	120	10.9	58.8	6.78	32.5	5.53	13.5	1.7	11.05	1.76	16
265.75	270.67	HC22-1828	3149.52	2883.7	265.82	807.66	716	1400	145.5	535	87.2	124.5	10.55	56.9	6.86	33.1	5.51	13.9	1.82	11	1.68	14.9
270.67	275.59	HC22-1829	3338.85	3077.4	261.45	867.82	753	1495	156	580	93.4	121.5	11.1	57.9	6.62	31.8	5.33	13.35	1.7	10.45	1.7	15.9
275.59	280.51	HC22-1831	3146.98	2892.6	254.38	813.43	708	1410	146	541	87.6	114.5	11.1	57.4	6.73	32.1	5.34	13.3	1.6	10.75	1.56	15
280.51	285.43	HC22-1832	3297.28	3031.2	266.08	857.34	749	1465	153.5	572	91.7	120.5	11.8	60.3	6.94	33.2	5.53	13.65	1.72	10.7	1.74	15.4

Rare Earth Element Summary

Drill Hole	***Northing***	***Easting***	***Collar***	***Total Depth***	***Hole Type***
HC22-RM014	*4,632,135.08*	*475,196.49*	*5,743.98*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-1833	3555.63	3262	293.63	929.17	797	1580	166	617	102	134	11.8	66.5	7.67	36.5	6.12	14.95	1.9	12.2	1.99	17.4
290.35	295.28	HC22-1834	3080.77	2837	243.77	799.2	693	1380	143	534	87	115.5	9.52	53.6	6.2	29	4.92	12.15	1.54	9.85	1.49	15.3
295.28	300.20	HC22-1835	3326.82	3069	257.82	859.51	753	1495	156	573	92	117	11.1	59.4	6.81	31.7	5.25	13.05	1.64	10.25	1.62	15.3
300.20	305.12	HC22-1836	3361.82	3098.2	263.62	877.23	760	1500	157.5	586	94.7	123.5	10.6	58.7	6.73	32.3	5.26	12.65	1.68	10.5	1.7	15.8
305.12	310.04	HC22-1837	3218.44	2960.5	257.94	900.28	700	1400	157	613	90.5	118.5	10.65	56.5	6.88	32.9	5.23	13.35	1.74	10.35	1.84	5.7
310.04	314.96	HC22-1838	3681.21	3396.5	284.71	1023.24	802	1615	180.5	698	101	131.5	11.15	63.5	7.44	36.3	5.66	14.35	1.77	11.15	1.89	6.8
314.96	319.88	HC22-1839	3195.4	2932.6	262.8	896.99	706	1370	155	613	88.6	121.5	10.5	57.1	6.99	33.4	5.4	14.05	1.63	10.45	1.78	7.9
319.88	324.80	HC22-1840	3457.7	3181.3	276.4	968.92	760	1495	168.5	663	94.8	127	11	61.9	7.22	35.4	5.54	13.9	1.8	10.75	1.89	8
324.80	329.72	HC22-1841	3628.94	3346.8	282.14	1017.42	798	1575	176	698	99.8	129	10.95	63.4	7.32	36.3	5.73	14.4	1.83	11.35	1.86	7.8
329.72	334.65	HC22-1842	3587.05	3311.4	275.65	1004.69	770	1580	175.5	687	98.9	124.5	10.7	62.8	7.59	35.7	5.62	13.8	1.81	11.35	1.78	9.6
334.65	339.57	HC22-1843	3585.47	3305.2	280.27	1009.38	789	1550	175.5	692	98.7	128	10.3	63.6	7.38	35.8	5.54	14.4	1.8	11.55	1.9	6.9
339.57	344.49	HC22-1844	3267.61	2995.8	271.81	918.27	709	1410	158.5	625	93.3	125.5	10.6	59.6	7.27	34.2	5.65	14.15	1.86	11	1.98	7.2
344.49	349.41	HC22-1845	3481.61	3205.3	276.31	982.23	761	1505	171	670	98.3	126	11.2	61.7	7.43	35.5	5.55	13.7	1.84	11.55	1.84	6
349.41	354.33	HC22-1846	3513.63	3240.9	272.73	981.56	771	1530	171.5	673	95.4	125	10.2	61.4	7.26	34.4	5.63	14.25	1.78	11	1.81	6
354.33	359.25	HC22-1847	3681.29	3394.5	286.79	1036.87	817	1585	180.5	709	103	131.5	10.85	64.1	7.67	36.7	5.88	15	1.9	11.25	1.94	6.2
359.25	364.17	HC22-1848	3288.73	3024.8	263.93	928.8	716	1420	160.5	635	93.3	122.5	10.45	58.7	7.1	32.9	5.28	13.3	1.69	10.25	1.76	8.1
364.17	369.09	HC22-1850	3472.53	3180.2	292.33	979.9	750	1495	169	667	99.2	135.5	10.7	64.3	7.8	36.9	5.96	15.25	1.92	12	2	7.5
369.09	374.02	HC22-1851	2977.11	2714.1	263.01	843.01	626	1285	144.5	572	86.6	122	10.15	57.4	6.61	33.3	5.35	13.95	1.65	10.7	1.9	6.8
374.02	378.94	HC22-1852	3382.93	3101.7	281.23	957.84	737	1450	163.5	654	97.2	129.5	10.45	62.8	7.54	35.6	5.74	14.65	1.83	11.2	1.92	9.1
378.94	383.86	HC22-1853	2926.25	2679.4	246.85	812.97	630	1275	141	553	80.4	113.5	10.3	52.8	6.47	32.1	5.06	12.85	1.61	10.6	1.56	6.5
383.86	388.78	HC22-1854	3410.37	3136.7	273.67	958.2	740	1480	167	655	94.7	126	10.5	61.3	7.2	34.3	5.47	14.35	1.77	11	1.78	6.5
388.78	393.70	HC22-1855	3400.14	3117.3	282.84	952.46	738	1470	165	649	95.3	131	11.05	61.6	7.46	35.7	5.88	15.35	1.78	11.1	1.92	7.3
393.70	398.62	HC22-1856	3233.86	2962.8	271.06	903.59	702	1400	158	613	89.8	123.5	10.6	60.3	7.09	35.7	5.67	13.8	1.7	10.9	1.8	6.8
398.62	403.54	HC22-1857	3016.39	2765.8	250.59	835.84	668	1300	146	569	82.8	116	10.1	55	6.54	31.5	4.92	12.95	1.57	10.35	1.66	6.5
403.54	408.46	HC22-1858	3404.16	3144.2	259.96	936.04	758	1490	164	642	90.2	119.5	10.75	57.8	6.84	33	5.29	13.2	1.63	10.25	1.7	6.8
408.46	413.39	HC22-1859	3680.31	3408.6	271.71	1015.82	824	1610	180	695	99.6	124.5	10.85	61.8	7.22	34	5.38	13.6	1.68	10.9	1.78	6.9
413.39	418.31	HC22-1860	3573.66	3298.8	274.86	983.68	802	1555	172	673	96.8	126.5	10.9	61.4	7.18	34.7	5.51	14.25	1.78	10.8	1.84	6.5
418.31	423.23	HC22-1861	3510.5	3228.4	282.1	971.13	780	1520	169.5	663	95.9	132.5	10.5	60.7	7.13	35.6	5.57	14.75	1.89	11.5	1.96	6.7
423.23	428.15	HC22-1862	3478.75	3196.4	282.35	972.73	767	1500	170	663	96.4	131	10.7	61.9	7.53	35.8	5.66	14.9	1.86	11.1	1.9	7.6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM014	*4,632,135.08*	*475,196.49*	*5,743.98*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
428.15	433.07	HC22-1863	3529.1	3252.4	276.7	975.29	785	1535	171	666	95.4	126.5	10.8	61.8	7.59	35.3	5.59	14.25	1.85	11.25	1.77	9.2
433.07	437.99	HC22-1864	3453.57	3181.5	272.07	961.85	767	1495	168	657	94.5	124	11.25	60.4	7.25	35.1	5.47	14.05	1.8	10.85	1.9	8.4
437.99	442.91	HC22-1865	3349.18	3080	269.18	927.08	739	1455	162.5	631	92.5	125	10.35	58.9	6.98	34.1	5.4	14	1.77	10.85	1.83	7.2
442.91	447.83	HC22-1866	658.03	579.65	78.38	176.41	138	276	30.6	116.5	18.55	41.9	1.84	12.55	1.67	9.09	1.57	4.43	0.59	4.1	0.64	2.5
447.83	452.76	HC22-1867	3425.86	3154.6	271.26	951.61	770	1475	166	649	94.6	123	11	60.5	7.01	35	5.63	14.4	1.76	11.15	1.81	6.1
452.76	457.68	HC22-1868	3485.45	3205.1	280.35	967.56	775	1505	168.5	661	95.6	130.5	10.8	61	7.46	35	5.75	14.55	1.86	11.5	1.93	6.6
457.68	462.60	HC22-1870	3612.9	3334.5	278.4	1001.19	780	1595	177.5	679	103	129	10.5	62.1	7.39	34.3	6.07	13.75	1.79	11.55	1.95	9.1
462.60	467.52	HC22-1871	3676.26	3395.5	280.76	1023.63	798	1615	181	697	104.5	131	10.4	62.4	7.53	33.6	6.07	14.5	1.83	11.5	1.93	7.7
467.52	472.44	HC22-1872	3314.22	3047.9	266.32	918.02	720	1450	162	620	95.9	124	10.45	57.4	7.12	33	5.72	13.6	1.81	11.4	1.82	6.2
472.44	477.36	HC22-1873	3545.01	3270.5	274.51	990.49	786	1535	176	671	102.5	127	10.3	61.8	7.29	33.7	6	13.7	1.8	11	1.92	5.9
477.36	482.28	HC22-1874	3565.79	3275	290.79	999.62	769	1550	176	677	103	135.5	11	63.5	7.62	36	6.31	15	2.06	11.8	2	8
482.28	487.20	HC22-1875	3601.83	3312	289.83	1017.19	773	1565	178.5	691	104.5	134.5	11.15	64	7.59	35.6	6.37	14.85	1.92	11.9	1.95	7.4
487.20	492.13	HC22-1876	3811.53	3502.5	309.03	1074.14	830	1645	190	729	108.5	142	11.05	69.7	8.14	38.5	6.75	15.75	2.05	12.95	2.14	8.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM015	*4,631,971.30*	*475,040.08*	*5,771.44*	*575.79*	*RC*

From Depth	*To Depth*	*Sample No.*							*Light REE*					*Heavy REE*							
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-1877	3939.58	3524.5	415.08	1139.2	810	1640	190	760	124.5	200	11.9	84.3	11	53.7	9.73	22.9	2.76	16.2	2.59	4.1
4.92	9.84	HC22-1878	3817.04	3405.5	411.54	1113.4	769	1585	188.5	740	123	204	11.1	81.9	10.7	51.2	9.5	22	2.69	16	2.45	3
9.84	14.76	HC22-1879	4521.19	4048.5	472.69	1305.95	930	1885	222	869	142.5	232	12.15	95.3	12.25	60.2	10.7	26	3.1	18.25	2.74	2.7
14.76	19.69	HC22-1880	2248.02	2013.3	234.72	647.39	447	954	109	432	71.3	115	6.18	47.1	6.09	29	5.34	13.15	1.59	9.74	1.53	2.2
19.69	24.61	HC22-1881	4178.38	3769	409.38	1203.1	875	1755	206	802	131	193.5	12.1	86.9	11.1	53	9.28	22.1	2.73	16.2	2.47	2.5
24.61	29.53	HC22-1882	4642.2	4194.5	447.7	1343.8	961	1960	231	897	145.5	213	12.55	95.1	12	58.3	10.45	23.4	2.96	17.3	2.64	1.8
29.53	34.45	HC22-1883	4543.8	4073	470.8	1325.5	945	1875	224	884	145	227	12.9	97.2	12.4	60.1	10.7	25.8	3.17	18.55	2.98	2.7
34.45	39.37	HC22-1884	4563.24	4106	457.24	1322.35	940	1915	225	879	147	218	12.7	96.5	12.35	59	10.65	24.3	3.1	17.7	2.94	3
39.37	44.29	HC22-1885	4571.26	4101.5	469.76	1308.55	946	1920	223	873	139.5	227	13.05	96.6	12.45	60.6	10.9	25.3	3.18	17.9	2.78	2.8
44.29	49.21	HC22-1886	3575.53	3194.5	381.03	1022.37	740	1490	175	679	110.5	188	10.25	75.3	9.67	48.2	8.69	20.6	2.6	15.25	2.47	2
49.21	54.13	HC22-1887	4095.49	3655.5	439.99	1175.9	837	1710	199.5	780	129	217	11.75	88	11.2	56.2	9.95	23.3	2.95	16.9	2.74	4.2
54.13	59.06	HC22-1888	4124.27	3729	395.27	1166.55	868	1755	202	781	123	190	11.5	83.2	10.75	49.8	9	20.9	2.64	15.05	2.43	4.3
59.06	63.98	HC22-1889	2138.79	1835.6	303.19	631.18	389	860	102	411	73.6	154.5	8.46	53.4	7.18	37.4	7	17.4	2.26	13.4	2.19	19.6
63.98	68.90	HC22-1891	1164.54	917.4	247.14	300.55	209	438	50	184.5	35.9	146.5	3.37	27.6	4.45	25.7	5.51	15.75	2.22	13.95	2.09	6.1
68.90	73.82	HC22-1892	887.6	679.7	207.9	236.97	151.5	318	37.8	143.5	28.9	118.5	2.86	24.2	4.07	22.7	4.97	14.05	2.01	12.75	1.79	3.4
73.82	78.74	HC22-1893	1204.68	962.4	242.28	318.62	215	460	51.7	199	36.7	140	4.16	29	4.72	26.5	5.32	14.8	2.14	13.65	1.99	6.8
78.74	83.66	HC22-1894	1896.43	1706.4	190.03	528.35	383	821	91.4	357	54	94.6	8.82	34.2	4.15	21.8	4	10.65	1.39	8.95	1.47	12.2
83.66	88.58	HC22-1895	3829.97	3567	262.97	1070.49	856	1680	194	732	105	117	11.1	62.2	7.19	32.3	5.58	13.3	1.75	10.65	1.9	5.5
88.58	93.50	HC22-1896	3866.22	3587.5	278.72	1089.97	840	1700	193	746	108.5	123.5	11.85	65.5	7.57	34.9	6.16	14	1.8	11.6	1.84	4.3
93.50	98.43	HC22-1897	4169.89	3833	336.89	1191.91	878	1815	208	808	124	151.5	12.45	79	9.41	42.5	7.25	16.95	2.22	13.3	2.31	4.9
98.43	103.35	HC22-1898	3427.75	3090.5	337.25	979.51	703	1460	165	654	108.5	159.5	10.2	74.3	9.31	42.7	7.63	16.85	2.08	12.6	2.08	4.1
103.35	108.27	HC22-1899	3869.39	3442	427.39	1130.45	774	1605	187.5	750	125.5	204	12.2	90.3	11.75	55.7	10.15	22.7	2.72	15.45	2.42	3.9
108.27	113.19	HC22-1900	4033.38	3590	443.38	1169.45	820	1670	197	775	128	215	12.05	91.3	11.85	57.6	10.3	23.2	2.83	16.7	2.55	2.4
113.19	118.11	HC22-1901	4231.21	3775	456.21	1228.2	858	1760	208	814	135	222	12.5	92.8	12	59.2	10.65	24.7	2.91	16.9	2.55	3.5
118.11	123.03	HC22-1902	4105.21	3660.5	444.71	1176.75	847	1705	200	779	129.5	220	11.8	88.5	11.65	56.6	10.25	23.8	3	16.4	2.71	2.6
123.03	127.95	HC22-1903	4047.46	3598.5	448.96	1169.3	822	1675	198.5	776	127	224	12.2	88.2	11.4	56.4	10.15	24.3	2.88	16.9	2.53	3.3
127.95	132.87	HC22-1904	4224.27	3770.5	453.77	1209.75	870	1760	206	802	132.5	223	12.35	90.5	11.65	57.6	10.35	25.3	2.93	17.3	2.79	2.5
132.87	137.80	HC22-1905	4043.55	3618	425.55	1153.55	840	1690	196	765	127	207	12.2	85.9	11.05	54.5	9.88	23.3	2.79	16.4	2.53	3.3
137.80	142.72	HC22-1906	4204.91	3764.5	440.41	1179.8	892	1760	205	778	129.5	213	12.45	92.2	11.5	55.8	10.1	23.1	2.99	16.75	2.52	2.6

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM015	*4,631,971.30*	*475,040.08*	*5,771.44*	*575.79*	*RC*

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE					Heavy REE											Sc
							La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu		
142.72	147.64	HC22-1907	3815.42	3403	412.42	1068.4	801	1595	185	703	119	203	12.15	83.4	10.6	50.8	9.42	22	2.74	15.8	2.51		2.6
147.64	152.56	HC22-1908	4173.35	3733.5	439.85	1178.4	887	1735	204	779	128.5	213	12.45	91.8	11.1	55.8	9.91	23.7	2.81	16.7	2.58		3.4
152.56	157.48	HC22-1910	3798	3397.5	400.5	1063.6	810	1585	185	702	115.5	194	11.6	82.9	10.3	50.8	9	21.3	2.57	15.6	2.43		3.4
157.48	162.40	HC22-1911	4229.13	3788	441.13	1225.9	867	1765	206	818	132	211	12.45	91.8	11.1	58.8	9.57	23.8	2.81	17.25	2.55		2.7
162.40	167.32	HC22-1912	2538.78	2246	292.78	729.66	496	1065	122	484	79	142.5	8.73	57.9	7.26	37.4	6.56	16.05	2.05	12.45	1.88		3.1
167.32	172.24	HC22-1913	3898.99	3484.5	414.49	1128	796	1625	189	754	120.5	198	12.65	84.9	10.5	54	9.43	22.4	2.67	17.4	2.54		3
172.24	177.17	HC22-1914	4104.73	3689.5	415.23	1181.2	863	1710	199	792	125.5	197	11.9	88.2	10.5	54.2	9.01	22.7	2.75	16.45	2.52		2.4
177.17	182.09	HC22-1915	3361.94	3013.2	348.74	931.44	724	1410	164	616	99.2	168	10.95	72	8.94	43.3	7.88	18.75	2.46	14.1	2.36		3.4
182.09	187.01	HC22-1916	3331.78	2963.5	368.28	934.74	704	1380	161	616	102.5	181	11.4	72	9.24	46	8.23	20.4	2.56	15.05	2.4		3.8
187.01	191.93	HC22-1917	2522.6	2152.1	370.5	726.1	488	993	119	467	85.1	188	10.75	67.9	8.8	46.2	8.76	20.7	2.45	14.55	2.39		2.7
191.93	196.85	HC22-1918	3783.23	3363.5	419.73	1062.75	784	1580	183	699	117.5	206	11.2	85.6	10.85	52.4	9.59	23	2.79	15.85	2.45		1.7
196.85	201.77	HC22-1919	3806.56	3417	389.56	1054.69	811	1610	186.5	697	112.5	191	12	79.1	9.79	48.9	8.95	20.2	2.6	14.65	2.37		2.8
201.77	206.69	HC22-1920	3611.87	3192	419.87	1007.6	762	1485	173	661	111	208	11.5	82.8	10.6	52	9.82	23.5	2.82	16.2	2.63		2.8
206.69	211.61	HC22-1921	3426.24	3032.5	393.74	951.51	721	1420	163.5	621	107	195	11.25	76.8	9.91	50.1	9.1	21.2	2.64	15.45	2.29		3.1
211.61	216.54	HC22-1922	3697.74	3289.5	408.24	1031.75	780	1540	177.5	677	115	201	11.15	81	10.45	51.8	9.54	22.3	2.78	15.7	2.52		3.1
216.54	221.46	HC22-1923	4051.19	3609	442.19	1129.75	846	1700	193.5	746	123.5	218	11.9	90	11.45	55.3	10	23.5	2.88	16.7	2.46		3
221.46	226.38	HC22-1924	3799.92	3391	408.92	1057.05	796	1600	184	694	117	199	11.85	83.2	10.45	51.6	9.34	22.6	2.72	15.6	2.56		1.7
226.38	231.30	HC22-1925	3348.45	3010.6	337.85	924.07	722	1415	162.5	612	99.1	163.5	11.55	67.8	8.57	41.9	7.73	18.7	2.31	13.7	2.09		2.7
231.30	236.22	HC22-1926	2998.75	2679.6	319.15	823.54	633	1270	144	544	88.6	157	10.8	62.8	7.94	39	7.14	17.2	2.2	12.95	2.12		2.3
236.22	241.14	HC22-1927	2892.72	2588.7	304.02	798.09	615	1220	139	528	86.7	148	10.85	61.7	7.69	36.7	6.72	16.65	2.02	11.8	1.89		1.4
241.14	246.06	HC22-1928	3815.96	3405.5	410.46	1057.65	804	1605	185	697	114.5	202	11.25	82.2	10.45	50.7	9.65	22.3	2.84	16.45	2.62		3.3
246.06	250.98	HC22-1930	3265.71	2874.5	391.21	904.04	663	1365	156	590	100.5	195.5	10.9	75.8	9.74	47.8	9.09	21.4	2.72	15.8	2.46		3.5
250.98	255.91	HC22-1931	4802.02	4241	561.02	1361.8	980	1985	234	891	151	275	12.65	115	14.7	71.1	13.15	30.8	3.7	21.5	3.42		3.7
255.91	260.83	HC22-1932	4370.21	3887	483.21	1233.35	902	1825	214	808	138	237	12.05	100.5	12.55	60.8	10.9	25.4	3.13	18.1	2.78		3.3
260.83	265.75	HC22-1933	3802.75	3368	434.75	1078.75	790	1565	184.5	708	120.5	215	9.61	89.4	11.25	54.5	10	23.3	2.84	16.15	2.7		3.2
265.75	270.67	HC22-1934	2624.95	2308.8	316.15	724.97	536	1095	124.5	472	81.3	156.5	8.75	61.3	7.77	39.4	7.33	18.1	2.14	12.75	2.11		2.9
270.67	275.59	HC22-1935	3098.78	2736.5	362.28	862.22	639	1290	147.5	562	98	176.5	10.45	72.8	9.12	45.6	8.43	19.95	2.49	14.6	2.34		4.4
275.59	280.51	HC22-1936	3312.29	2931	381.29	924.43	679	1385	159	603	105	188	10.75	76	9.53	47.9	8.73	20.7	2.48	14.85	2.35		5.3
280.51	285.43	HC22-1937	3132.56	2767.1	365.46	875.57	642	1305	150.5	571	98.6	180	9.66	72.9	9.17	46.3	8.26	19.9	2.49	14.4	2.38		2.2

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM015	*4,631,971.30*	*475,040.08*	*5,771.44*	*575.79*	*RC*

From Depth	To Depth	Sample No.					Light REE									Heavy REE					
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-1938	3562.81	3179	383.81	989.6	743	1505	172.5	649	109.5	186	10.85	78.7	10.1	48.5	8.68	20.9	2.55	15.2	2.33	4.1
290.35	295.28	HC22-1939	3307.25	2984.8	322.45	905.56	708	1420	162	598	96.8	155.5	10.3	67.3	8.36	40.4	7.24	17.05	2.12	12.05	2.13	3.4
295.28	300.20	HC22-1940	3389.47	3034.5	354.97	933.38	713	1440	164	616	101.5	176	9.81	71.2	8.88	43	7.94	19.3	2.51	14	2.33	2.1
300.20	305.12	HC22-1941	3599.76	3229.5	370.26	993.4	777	1515	173.5	655	109	178.5	11.15	77	9.6	46.3	8.54	19.65	2.48	14.65	2.39	4.4
305.12	310.04	HC22-1942	2478.72	2173	305.72	696.04	493	1030	110	462	78	149	9.79	57.9	7.64	38.4	7	17.9	2.09	13.95	2.05	13
310.04	314.96	HC22-1943	3680.37	3292	388.37	1028.1	769	1555	168	690	110	181.5	11.4	81.6	10.5	49.6	8.84	22.7	2.74	16.85	2.64	13
314.96	319.88	HC22-1944	3722.88	3343.5	379.38	1045.79	781	1575	172	702	113.5	182	10.85	77.4	9.79	48.5	8.68	20.9	2.63	16.05	2.58	12.2
319.88	324.80	HC22-1945	3388.71	3047.5	341.21	943.49	717	1440	155.5	634	101	159.5	11.2	70.8	9.09	43.9	7.71	19.5	2.45	14.8	2.26	12.4
324.80	329.72	HC22-1946	2118.97	1794.3	324.67	605.07	395	843	91.9	392	72.4	159.5	10.2	58.5	7.87	40.9	7.53	19.9	2.44	15.35	2.48	21
329.72	334.65	HC22-1947	3076.05	2730.9	345.15	859.82	634	1290	138.5	573	95.4	163.5	10.9	69.8	8.92	44	7.75	19.85	2.38	15.55	2.5	16.2
334.65	339.57	HC22-1948	3508.85	3125.5	383.35	992.5	718	1475	162	662	108.5	179	12	79.5	10.3	49.7	8.76	22.2	2.63	16.6	2.66	12.3
339.57	344.49	HC22-1949	3325	2944.5	380.5	941.1	678	1385	149.5	626	106	178	11.9	78.9	10	49.6	8.83	22.1	2.56	16.05	2.56	11.8
344.49	349.41	HC22-1951	3183.56	2806.5	377.06	908.35	638	1320	144.5	601	103	175	10.95	78.4	10.15	49.7	8.92	21.8	2.7	16.8	2.64	12
349.41	354.33	HC22-1952	3359.68	2978.5	381.18	950.01	677	1410	153.5	631	107	182.5	10.9	77.3	9.91	48.6	8.62	22.1	2.56	16.05	2.64	11.8
354.33	359.25	HC22-1953	3496.3	3120	376.3	990.47	722	1465	159.5	664	109.5	182.5	10.6	75.5	9.87	47.6	8.4	20.9	2.49	15.95	2.49	11.7
359.25	364.17	HC22-1954	2803.24	2484.1	319.14	796.52	572	1165	127	531	89.1	152	10.05	64.1	8.32	41.1	7.23	18.4	2.25	13.7	1.99	11.9
364.17	369.09	HC22-1955	3832.31	3486.5	345.81	1086.6	811	1645	178.5	736	116	151	12.25	81.6	9.8	46.3	7.81	18.9	2.19	13.85	2.11	13.4
369.09	374.02	HC22-1956	1412.83	1187.1	225.73	417.48	238	565	61.4	273	49.7	109.5	9.29	39.9	5.48	27.9	5.11	13.55	1.68	11.5	1.82	22.3
374.02	378.94	HC22-1957	1360.51	1144.9	215.61	400.71	230	545	60.1	262	47.8	108.5	8.67	36.9	4.91	25.9	4.7	12.35	1.58	10.5	1.6	18.4
378.94	383.86	HC22-1958	3436.35	3135.9	300.45	954.19	738	1490	158.5	650	99.4	136	10.65	66.3	8.09	38.2	6.76	17	2	13.4	2.05	12.8
383.86	388.78	HC22-1959	3674.67	3362	312.67	1026.03	789	1595	171	700	107	140.5	10.95	71	8.33	39.7	6.87	17.55	2.1	13.6	2.07	12.5
388.78	393.70	HC22-1960	3861.96	3543	318.96	1078	824	1690	181.5	736	111.5	144	11.05	72.4	8.6	40.4	7	17.4	2.09	13.8	2.22	11.4
393.70	398.62	HC22-1961	3503.7	3208	295.7	979.64	754	1520	164.5	668	101.5	131	11.25	68.2	8.24	37.4	6.46	16	2.05	13	2.1	11.2
398.62	403.54	HC22-1962	3505.15	3176	329.15	988.44	735	1505	162	666	108	147.5	11.75	74.3	9.14	43.3	7.41	17.9	2.14	13.55	2.16	10.8
403.54	408.46	HC22-1963	3608.25	3258.5	349.75	1042.38	741	1530	167.5	703	117	160	10.6	79	9.58	45.3	7.69	18.95	2.29	14.2	2.14	10.2
408.46	413.39	HC22-1964	3498.38	3137	361.38	999.7	714	1480	160	671	112	170	10.8	77.3	9.7	47	8.06	19.75	2.22	14.3	2.25	11.2
413.39	418.31	HC22-1965	3639.7	3255	384.7	1038.05	742	1535	167	694	117	183	10.95	80.9	10.25	49.8	8.54	21.5	2.43	15.05	2.28	11.4
418.31	423.23	HC22-1966	3944.44	3553.5	390.94	1114.8	819	1680	181.5	751	122	185	11.55	83.7	10.4	49.9	8.81	21.6	2.44	15.25	2.29	12
423.23	428.15	HC22-1967	992.48	878.1	114.38	275.83	189	430	44.8	183.5	30.8	57.1	2.74	21.4	2.78	13.95	2.6	6.66	0.88	5.49	0.78	9.9

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM015	4,631,971.30	475,040.08	5,771.44	575.79	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-1968	3730.7	3353	377.7	1058.2	764	1590	172	710	117	180	10.25	78.9	10.1	49.1	8.56	21	2.4	15.1	2.29	10.8
433.07	437.99	HC22-1970	3786.46	3410.5	375.96	1076.05	778	1615	175.5	723	119	176	11.5	80.7	10.25	48.3	8.69	20.9	2.49	14.85	2.28	10.8
437.99	442.91	HC22-1971	3879.51	3494	385.51	1088.75	808	1660	177.5	730	118.5	173	12.55	86.1	10.85	51.9	8.91	21.8	2.57	15.55	2.28	11.4
442.91	447.83	HC22-1972	3760.27	3393.5	366.77	1059.25	783	1610	174	712	114.5	166	11.35	81.9	10.25	48.5	8.42	20.9	2.41	14.8	2.24	11.2
447.83	452.76	HC22-1973	4289.57	3880	409.57	1203.7	901	1840	197.5	810	131.5	186	12.8	92	11.1	53.6	9.39	23.1	2.56	16.55	2.47	12.2
452.76	457.68	HC22-1974	4255.02	3850.5	404.52	1199.95	895	1820	196.5	810	129	185	12.15	90.6	11.35	53.1	9.17	22.3	2.64	15.65	2.56	11.6
457.68	462.60	HC22-1975	3795	3451.5	343.5	1060.32	807	1640	176.5	715	113	149.5	12.2	80.3	9.92	45.9	7.73	18.9	2.34	14.6	2.11	10.5
462.60	467.52	HC22-1976	3492.68	3159.5	333.18	981.78	726	1505	160.5	662	106	148	11.4	75	9.18	44.1	7.7	19	2.27	14.4	2.13	11.2
467.52	472.44	HC22-1977	3832.65	3497	335.65	1063.19	817	1670	176.5	721	112.5	149.5	11.65	77.1	9.49	43.7	7.65	18.3	2.14	13.95	2.17	11.4
472.44	477.36	HC22-1978	3580.68	3267	313.68	1002.18	768	1545	171	680	103	146.5	10.8	68.4	7.98	40.2	6.76	16.55	2.04	12.5	1.95	6.4
477.36	482.28	HC22-1979	1641.36	1390.9	250.46	476.83	300	651	75.1	310	54.8	127.5	7.84	42.7	5.83	31.1	5.52	14.75	1.86	11.55	1.81	18.3
482.28	487.20	HC22-1980	2404.55	2121.8	282.75	687.83	472	1005	113.5	458	73.3	140.5	9.27	52.2	6.93	36.1	6.19	15.55	2	12.1	1.91	13.4
487.20	492.13	HC22-1981	4024.3	3681	343.3	1116.26	883	1735	195	755	113	162.5	10.2	73.9	9.06	44.2	7.21	18.55	2.12	13.55	2.01	8
492.13	497.05	HC22-1982	1649.93	1390.8	259.13	489.19	296	644	74.9	319	56.9	127.5	9.4	45.8	6.09	32.3	5.8	15.7	1.94	12.65	1.95	20.8
497.05	501.97	HC22-1983	3737.46	3455.5	281.96	1034.01	829	1635	182.5	709	100	131.5	10.6	62.3	7.11	35.4	5.74	14.7	1.81	11.1	1.7	6.2
501.97	506.89	HC22-1984	3674.81	3379.5	295.31	1024.92	800	1600	177.5	700	102	138	10.6	64	7.62	37.8	6.13	15.75	1.94	11.65	1.82	5.2
506.89	511.81	HC22-1985	3686.48	3384.5	301.98	1029.82	811	1590	176	705	102.5	141	10.8	66.4	7.92	38.4	6.32	15.8	1.89	11.6	1.85	6.2
511.81	516.73	HC22-1986	4048.91	3709.5	339.41	1151.42	877	1735	197.5	783	117	156.5	11.1	76.1	8.82	45.1	7.05	17.05	2.17	13.45	2.07	5.3
516.73	521.65	HC22-1987	4081.3	3743	338.3	1153.13	883	1760	198.5	785	116.5	155.5	11	76.6	9.23	43.9	7.23	17.7	2.15	12.9	2.09	5.4
521.65	526.57	HC22-1988	3931.2	3601.5	329.7	1106.3	847	1700	190	751	113.5	151.5	11.1	74.3	8.8	43	6.84	17.3	2.07	12.7	2.09	4.4
526.57	531.50	HC22-1990	3977.3	3635.5	341.8	1114.1	855	1720	191.5	754	115	159	11.45	75.2	9.1	44.5	7.27	17.8	2.2	13.3	1.98	5.8
531.50	536.42	HC22-1991	3996.3	3649.5	346.8	1132.57	867	1705	193	768	116.5	159.5	10.95	78.5	9.37	45.7	7.31	18.25	2.2	13	2.02	5.4
536.42	541.34	HC22-1992	4038.55	3682	356.55	1143.76	865	1730	195.5	773	118.5	165	11.45	78.7	9.46	47.3	7.77	18.1	2.31	14.3	2.16	5.1
541.34	546.26	HC22-1993	4025.8	3666.5	359.3	1142.08	851	1730	193.5	774	118	167.5	11	79.2	9.58	47	7.78	18.8	2.24	14.1	2.1	6.1
546.26	551.18	HC22-1994	3848.05	3495.5	352.55	1097.49	823	1630	184.5	743	115	164	11.05	77.8	9.29	45.7	7.5	18.65	2.28	14.25	2.03	6
551.18	556.10	HC22-1995	3867.76	3513	354.76	1110.81	814	1645	187.5	746	120.5	164.5	11.8	77.7	9.41	47.4	7.61	18.5	2.26	13.55	2.03	4.3
556.10	561.02	HC22-1996	3925.16	3572.5	352.66	1122.07	831	1675	190	760	116.5	163.5	11.8	78.2	9.27	46.3	7.66	18.3	2.22	13.4	2.01	4.6
561.02	565.94	HC22-1997	3753	3398.5	354.5	1065.03	794	1595	181	717	111.5	166.5	11.95	76.6	9.23	46.3	7.45	18.65	2.26	13.45	2.11	4.4
565.94	570.87	HC22-1998	3850.76	3488.5	362.26	1110.63	810	1625	185	751	117.5	169	11.75	79.3	9.63	47.5	7.91	18.6	2.31	14.15	2.11	4.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM015	4,631,971.30	475,040.08	5,771.44	575.79	RC

From Depth	*To Depth*	*Sample No.*	*TREE*	*LREE*	*HREE*	*MREE*	*Light REE* La	Ce	Pr	Nd	Sm	*Heavy REE* Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	*Sc*
570.87	575.79	HC22-1999	3055.35	2751.4	303.95	867.16	642	1290	145.5	583	90.9	143.5	9.01	64.9	8.06	39.7	6.52	16.45	2	12.05	1.76	4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM016	*4,632,832.45*	*475,610.68*	*5,700.51*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
0.00	4.92	HC22-2018	1173.03	1012.5	160.53	332.58	223	481	53.9	216	38.6	81	5.51	27.5	3.78	20.3	3.49	9.26	1.17	7.46	1.06	7.4
4.92	9.84	HC22-2019	1792.4	1582.9	209.5	512.13	351	751	83.1	341	56.8	104	7.47	38.9	4.93	26.3	4.73	11.65	1.47	8.75	1.3	6.4
9.84	14.76	HC22-2020	2824.9	2499.7	325.2	813.53	555	1180	132.5	546	86.2	162	10.7	60.9	7.93	40.9	7.14	17.8	2.22	13.5	2.11	5.3
14.76	19.69	HC22-2021	2710.43	2387.1	323.33	784.51	531	1120	128	524	84.1	159.5	10.6	60.6	7.91	40.5	6.98	18.6	2.24	14.2	2.2	6.2
19.69	24.61	HC22-2022	2893.52	2556.3	337.22	830.98	567	1210	136	552	91.3	165.5	11.05	63.3	8.18	43.5	7.44	19.3	2.4	14.4	2.15	5
24.61	29.53	HC22-2023	2814.11	2478.3	335.81	804.92	550	1175	133	533	87.3	168	11	61.1	8.02	43.6	7.33	18.7	2.28	13.75	2.03	5
29.53	34.45	HC22-2024	2909.43	2570.5	338.93	835.33	571	1215	137.5	558	89	170	10.95	62.6	8.33	42.5	7.27	18.85	2.23	14	2.2	5.2
34.45	39.37	HC22-2025	2733.3	2409.5	323.8	785.21	535	1140	128.5	521	85	157.5	10.9	60.7	7.91	42.8	7.29	18.4	2.28	13.85	2.17	4.8
39.37	44.29	HC22-2026	2924.31	2615.1	309.21	832.34	590	1240	141.5	556	87.6	148.5	10.95	61.2	7.74	39.5	6.74	17.1	2.26	13.3	1.92	4.4
44.29	49.21	HC22-2027	2369.04	2096.2	272.84	676.49	463	998	111.5	450	73.7	135	8.89	51.4	6.69	34.6	5.83	14.6	1.93	12.05	1.85	4.8
49.21	54.13	HC22-2028	2962.38	2630.9	331.48	847.01	594	1240	141.5	566	89.4	164	10.35	61.5	8.01	42.1	7.58	19.4	2.3	14.05	2.19	5.3
54.13	59.06	HC22-2030	2796.27	2452.6	343.67	799.23	549	1155	132	530	86.6	176.5	10.65	60.2	8.03	42.6	7.32	19.25	2.29	14.55	2.28	5.3
59.06	63.98	HC22-2031	2780.43	2451.6	328.83	793.57	548	1160	131.5	526	86.1	164	10.8	59.6	7.67	42.3	7.24	18.8	2.27	14.05	2.1	4.6
63.98	68.90	HC22-2032	2865.14	2530.4	334.74	811.63	554	1215	134.5	538	88.9	170	10.8	59.2	7.73	42.5	7.36	18.85	2.21	14.1	1.99	5.4
68.90	73.82	HC22-2033	2847.25	2505.3	341.95	806.55	550	1200	132.5	536	86.8	173	10.85	61.5	8.15	43.1	7.58	19.25	2.4	13.9	2.22	5.4
73.82	78.74	HC22-2034	3075.94	2715.8	360.14	867.21	602	1300	143.5	576	94.3	185	11.3	62.8	8.31	45.1	8.04	20.1	2.36	14.9	2.23	4.8
78.74	83.66	HC22-2035	3050.15	2694.4	355.75	868.28	590	1290	142	578	94.4	180	10.9	64	8.58	45.3	7.82	19.95	2.36	14.7	2.14	6.3
83.66	88.58	HC22-2036	3110.71	2771.7	339.01	879.67	609	1335	147	588	92.7	170.5	11.2	61.1	8.27	43.7	7.47	18.8	2.25	13.7	2.02	5.7
88.58	93.50	HC22-2037	3041.46	2698.7	342.76	856.45	593	1300	142	572	91.7	174	11.05	61.5	8.25	42.5	7.48	19.4	2.32	14.15	2.11	5.1
93.50	98.43	HC22-2038	3045.72	2707.9	337.82	859.85	594	1305	142.5	575	91.4	171.5	10.95	61.1	7.95	43	7.42	18.1	2.25	13.55	2	4.8
98.43	103.35	HC22-2039	2917.53	2591.6	325.93	827.36	569	1245	137	551	89.6	163	10.9	60	8.06	41.7	7.3	17.9	2.15	12.9	2.02	4.1
103.35	108.27	HC22-2040	2889.4	2578.9	310.5	815.26	570	1240	135.5	546	87.4	156	10.95	57.1	7.36	39	6.85	17	2.07	12.3	1.87	5.1
108.27	113.19	HC22-2041	2852.86	2543.6	309.26	804.04	555	1230	133.5	541	84.1	156.5	10.5	57	7.34	38.1	6.68	16.55	2.06	12.55	1.98	4.2
113.19	118.11	HC22-2042	2816.05	2490.7	325.35	796.19	548	1195	131.5	531	85.2	164.5	11.2	59.3	7.69	40.8	7.07	17.6	2.13	13.1	1.96	5.8
118.11	123.03	HC22-2043	2801.61	2488.2	313.41	782.58	547	1205	131	520	85.2	158.5	10.95	56.3	7.38	39	6.8	17.5	2.28	12.75	1.95	6.8
123.03	127.95	HC22-2044	2621.11	2329.6	291.51	737.26	515	1120	123	494	77.6	148.5	10.5	51.9	6.76	35.9	6.22	15.9	2.07	12	1.76	5.8
127.95	132.87	HC22-2045	2963.97	2638.5	325.47	833.7	578	1275	138.5	557	90	164.5	11.05	57.9	7.7	40.5	7.04	18.25	2.3	14.2	2.03	3.9
132.87	137.80	HC22-2046	2442.32	2161.4	280.92	683.97	474	1045	114	454	74.4	143.5	8.36	49.3	6.47	35.1	6.2	16.1	2.04	12.05	1.8	3.9
137.80	142.72	HC22-2047	2654.22	2345.8	308.42	744.33	512	1135	123.5	494	81.3	157	9.88	54.5	7.33	38.2	6.94	17.45	2.18	12.95	1.99	5.5

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM016	*4,632,832.45*	*475,610.68*	*5,700.51*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										Sc
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
142.72	147.64	HC22-2048	2927.38	2599.3	328.08	826.3	573	1250	138	549	89.3	165	11.1	58.3	7.9	42.1	7.18	18.3	2.29	13.8	2.11	6.5
147.64	152.56	HC22-2050	2959.87	2630.3	329.57	827.47	578	1275	138	550	89.3	166	10.75	59.3	7.77	42.4	7.35	18.35	2.25	13.25	2.15	3.9
152.56	157.48	HC22-2051	2836.33	2507.1	329.23	804.13	552	1200	134	534	87.1	167.5	10.9	58.8	7.93	41.1	7.2	17.95	2.28	13.6	1.97	4.3
157.48	162.40	HC22-2052	2673.97	2358.6	315.37	755.6	515	1135	124	503	81.6	161.5	10.65	55.3	7.3	39.7	6.87	16.85	2.18	13	2.02	4.5
162.40	167.32	HC22-2053	2813.47	2496.8	316.67	791.97	552	1200	131	526	87.8	160	10.55	56.6	7.57	39.6	6.89	17.55	2.13	13.85	1.93	4.1
167.32	172.24	HC22-2054	3100.36	2750.9	349.46	869.78	608	1325	144.5	580	93.4	178	11.3	62.8	8.38	43.5	7.41	19	2.35	14.5	2.22	4.6
172.24	177.17	HC22-2055	2835.96	2508.4	327.56	801.9	550	1205	132.5	534	86.9	166	10.35	59.9	7.8	40.7	7.38	17.8	2.29	13.3	2.04	6
177.17	182.09	HC22-2056	2973.92	2647.3	326.62	839.37	582	1275	140	561	89.3	165	11	58.9	7.77	41.3	7.27	18.1	2.15	13.05	2.08	5.3
182.09	187.01	HC22-2057	2985.93	2651.5	334.43	844.8	583	1275	140	563	90.5	166.5	11.1	61.6	8.2	43.1	7.36	18.4	2.3	13.8	2.07	6.4
187.01	191.93	HC22-2058	2987.52	2655.5	332.02	837.23	588	1280	140.5	558	89	168	11.35	60.1	7.93	41.8	7.19	18	2.3	13.35	2	4.1
191.93	196.85	HC22-2059	3005.63	2673.5	332.13	846.38	592	1285	141	564	91.5	167.5	11.2	59.7	8.08	41.8	7.2	18.1	2.34	14.1	2.11	5.9
196.85	201.77	HC22-2060	3101.98	2755.7	346.28	875.51	613	1320	146	584	92.7	174	11.25	63	8.31	44.5	7.66	18.7	2.36	14.35	2.15	4.6
201.77	206.69	HC22-2061	2992.46	2653.8	338.66	844.73	580	1280	139.5	561	93.3	169.5	11.25	61.8	7.93	43	7.37	18.9	2.29	14.4	2.22	5.7
206.69	211.61	HC22-2062	2838.09	2518.8	319.29	798.27	554	1215	132	533	84.8	160	10.85	57.1	7.57	40.9	6.97	17.75	2.23	13.75	2.17	5.2
211.61	216.54	HC22-2063	2948.53	2614.9	333.63	826.73	588	1250	137.5	550	89.4	168.5	10.9	60.1	8.03	41.8	7.32	18.6	2.34	13.9	2.14	5.4
216.54	221.46	HC22-2064	2942.97	2607.9	335.07	827.34	576	1255	138.5	551	87.4	170	10.9	59.6	7.94	42.5	7.38	18.05	2.32	14.3	2.08	5.2
221.46	226.38	HC22-2065	3209.48	2848.2	361.28	902.06	630	1370	149	601	98.2	183	10.85	65.5	8.46	45.4	7.85	20.3	2.51	15.1	2.31	4.3
226.38	231.30	HC22-2066	2784.72	2455.4	329.32	782.77	537	1185	131	516	86.4	167.5	10.95	58.4	7.97	41.4	7.13	18.15	2.31	13.45	2.06	5
231.30	236.22	HC22-2067	2869.76	2528.4	341.36	811.59	558	1210	134	539	87.4	171.5	11	61.5	8.19	43	7.5	19.25	2.43	14.8	2.19	3.3
236.22	241.14	HC22-2068	2812.45	2483.2	329.25	758.84	590	1185	125.5	495	87.7	158	11.55	63.3	8.44	42.2	7.53	18.85	2.29	14.95	2.14	12.4
241.14	246.06	HC22-2069	2683.85	2356.8	327.05	721.43	561	1125	118.5	470	82.3	154.5	11.4	64.4	8.43	42.2	7.57	19.2	2.27	14.85	2.23	11.9
246.06	250.98	HC22-2071	2582.96	2299.7	283.26	691.76	552	1100	115.5	452	80.2	133	10.25	56.6	7.46	36.6	6.62	16.15	2.01	12.6	1.97	12.2
250.98	255.91	HC22-2072	2815.62	2499.4	316.22	755.95	593	1200	126	495	85.4	147.5	11.35	63.9	8.35	41.2	7.25	18.25	2.24	14.05	2.13	12
255.91	260.83	HC22-2073	2865.11	2556.5	308.61	770.8	613	1220	128.5	509	86	146	11.55	62.6	8.1	39.2	6.92	17.1	2.07	13.15	1.92	12.7
260.83	265.75	HC22-2074	2726.55	2447.4	279.15	749.46	566	1175	126	500	80.4	132.5	11.4	54.4	7.16	35.9	6.27	15.9	1.91	11.9	1.81	7.1
265.75	270.67	HC22-2075	2697.11	2414.3	282.81	738.78	569	1150	125.5	491	78.8	133	11.85	56.2	7.28	36.2	6.31	16.05	2.04	11.95	1.93	7.8
270.67	275.59	HC22-2076	2777.1	2487.6	289.5	769.02	578	1185	129.5	513	82.1	139	10.8	55.9	7.32	37.1	6.43	16.5	2.06	12.5	1.89	7.3
275.59	280.51	HC22-2077	3115.07	2783.5	331.57	858.18	641	1335	144	570	93.5	161	11.35	63.3	8.38	42.3	7.52	19.1	2.38	14.1	2.14	7.9
280.51	285.43	HC22-2078	2901.85	2583.5	318.35	798.73	599	1235	133.5	528	88	153	11.15	61.2	8.03	41.2	7.26	18.5	2.31	13.6	2.1	7.6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM016	*4,632,832.45*	*475,610.68*	*5,700.51*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-2079	3011.93	2690.3	321.63	826.22	634	1280	140.5	548	87.8	156	11.65	61.2	8.12	41.8	7.23	17.7	2.3	13.6	2.03	7.2
290.35	295.28	HC22-2080	3004.9	2677.6	327.3	823.91	634	1270	138.5	546	89.1	158.5	12	62.2	8.41	41.9	7.43	18.3	2.25	14.15	2.16	7.5
295.28	300.20	HC22-2081	2870.05	2545.8	324.25	786.5	589	1220	130	520	86.8	158	11.55	60.9	8.2	41.5	7.52	18.1	2.25	14.1	2.13	6.4
300.20	305.12	HC22-2082	3090.74	2767.2	323.54	847.09	635	1335	143	562	92.2	156.5	11.65	61.9	8.19	41.7	7.31	18.4	2.24	13.6	2.05	7.2
305.12	310.04	HC22-2083	3216.58	2885.8	330.78	879.51	677	1380	149	586	93.8	161	11.7	62.8	8.31	42.4	7.63	18.2	2.35	14.3	2.09	7.2
310.04	314.96	HC22-2084	3038.89	2723.9	314.99	837.66	635	1300	141	558	89.9	151.5	11.2	61.1	8.06	40.7	7.14	17.8	2.23	13.25	2.01	6.5
314.96	319.88	HC22-2085	3039.28	2720.7	318.58	828.59	641	1300	139.5	551	89.2	153.5	11.5	61.8	8.09	40.8	7.31	17.65	2.25	13.65	2.03	6.7
319.88	324.80	HC22-2086	2973.67	2661.3	312.37	815.79	625	1270	137	542	87.3	149.5	11.25	59.8	7.99	41.5	7.06	17.6	2.23	13.45	1.99	5.9
324.80	329.72	HC22-2087	3051.78	2729	322.78	839.17	640	1300	141.5	557	90.5	156	11.2	61.7	8.27	41.9	7.32	18.6	2.32	13.45	2.02	6
329.72	334.65	HC22-2088	3110.2	2791.2	319	854.56	656	1330	144	568	93.2	154.5	11.4	60.9	8.06	41.3	7.32	17.7	2.27	13.55	2	6.2
334.65	339.57	HC22-2090	3097.91	2773.2	324.71	851.43	652	1320	144	566	91.2	156.5	11.15	62.6	8.23	42	7.53	18.8	2.3	13.55	2.05	6.1
339.57	344.49	HC22-2091	3049.75	2730	319.75	841.6	628	1310	140.5	559	92.5	154.5	11.4	61.4	8.2	41.4	7.32	18.1	2.23	13.15	2.05	6.1
344.49	349.41	HC22-2092	2970.22	2666.2	304.02	806.53	606	1300	135.5	537	87.7	147.5	11	59	7.53	38.8	6.92	16.65	2.14	12.6	1.88	6.2
349.41	354.33	HC22-2093	3011.16	2694.1	317.06	822.32	626	1295	138	547	88.1	153	11.4	60.6	8.02	41.2	7.2	17.9	2.22	13.55	1.97	4.6
354.33	359.25	HC22-2094	3087.67	2765.1	322.57	848.75	631	1335	142.5	564	92.6	157	11.4	61.6	8.25	41.4	7.26	17.75	2.27	13.6	2.04	5.7
359.25	364.17	HC22-2095	3051.51	2733.1	318.41	840.91	631	1310	140.5	560	91.6	153	11.65	62.2	8.01	40.8	7.1	17.8	2.28	13.6	1.97	5.9
364.17	369.09	HC22-2096	3088.44	2767.2	321.24	844.7	648	1325	144	559	91.2	154	11.65	62.2	8.3	42.2	7.27	17.9	2.34	13.4	1.98	5.6
369.09	374.02	HC22-2097	3154.59	2827.9	326.69	869.3	649	1360	145	579	94.9	158.5	11.1	62.3	8.3	42.1	7.34	18.8	2.3	13.95	2	5.9
374.02	378.94	HC22-2098	2939.05	2630.1	308.95	811.15	612	1255	135	539	89.1	148.5	11.2	59.6	7.95	40.1	7.06	17.3	2.16	13.05	2.03	5.5
378.94	383.86	HC22-2099	2941.65	2621.8	319.85	816.26	605	1250	136	540	90.8	154.5	11.3	61.4	8.26	41.2	7.47	18	2.33	13.35	2.04	6.1
383.86	388.78	HC22-2100	2976.6	2664.4	312.2	816.5	626	1270	138.5	541	88.9	151.5	11.25	59.5	7.7	40.4	7.05	17.35	2.14	13.35	1.96	5.6
388.78	393.70	HC22-2101	2935.15	2621.9	313.25	811.83	598	1260	135	540	88.9	152	10.95	60.1	7.83	40.1	7.15	17.65	2.2	13.3	1.97	5.6
393.70	398.62	HC22-2102	2911.57	2606.5	305.07	800.02	603	1250	135.5	532	86	147.5	10.9	58.7	7.72	38.8	6.92	17.3	2.2	13.15	1.88	6.1
398.62	403.54	HC22-2103	2986.32	2666.8	319.52	826.98	609	1280	138.5	549	90.3	154.5	11.3	61	8.08	41.1	7.33	18.4	2.25	13.5	2.06	5.1
403.54	408.46	HC22-2104	2963.75	2642.5	321.25	816.53	605	1270	135.5	543	89	155.5	11.35	61.5	8.03	41	7.4	18.5	2.32	13.5	2.15	6.3
408.46	413.39	HC22-2105	2959.73	2646.5	313.23	814.53	605	1275	137	540	89.5	152	10.65	59.7	7.93	40.1	7.22	18	2.27	13.3	2.06	5.3
413.39	418.31	HC22-2106	2953.05	2650.8	302.25	822.22	615	1260	137.5	549	89.3	145.5	10.45	58.9	7.62	38.8	6.85	17.2	2.17	12.85	1.91	5.5
418.31	423.23	HC22-2107	1574.86	1404.4	170.46	423.82	322	684	70.8	281	46.6	84.3	5.26	31.6	4.12	21.3	3.84	9.85	1.25	7.76	1.18	3.7
423.23	428.15	HC22-2108	3112.2	2801	311.2	856.35	653	1340	145	572	91	150.5	10.75	60.1	7.95	40.4	6.95	17.6	2.12	12.9	1.93	5.5

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM016	*4,632,832.45*	*475,610.68*	*5,700.51*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-2110	2764.72	2449.3	315.42	753.47	587	1155	127.5	493	86.8	158	9.79	59.2	7.67	38.5	6.87	17.8	2.19	13.45	1.95	5.2
433.07	437.99	HC22-2111	3106.99	2747.7	359.29	887.05	639	1275	149.5	587	97.2	182	10.9	66.6	8.75	44.6	8.13	19.15	2.58	14.4	2.18	3.8
437.99	442.91	HC22-2112	2973.86	2632.5	341.36	850.89	603	1230	142	564	93.5	169.5	10.55	64.5	8.39	43	7.72	19	2.32	14.15	2.23	3.9
442.91	447.83	HC22-2113	3169.72	2823.5	346.22	892.88	647	1335	151.5	593	97	174	11	65.9	8.58	42.8	7.56	18.45	2.38	13.5	2.05	3.6
447.83	452.76	HC22-2114	3067.54	2742.9	324.64	866.34	640	1285	147.5	575	95.4	162	10.7	61.8	8.14	40.3	7.28	17.5	2.26	12.75	1.91	4.3
452.76	457.68	HC22-2115	2841.66	2564.8	276.86	806.46	584	1215	138.5	541	86.3	137	10.3	54.8	6.76	33.9	5.96	14.35	1.78	10.5	1.51	3.2
457.68	462.60	HC22-2116	3230.96	2851.5	379.46	929.93	658	1320	154.5	617	102	191.5	11.7	70.5	9.33	47.1	8.54	20.4	2.53	15.55	2.31	4.4
462.60	467.52	HC22-2117	3004.74	2696.8	307.94	850.66	627	1265	145	570	89.8	154.5	9.96	59.5	7.76	38.1	6.67	16.25	1.95	11.45	1.8	3.7
467.52	472.44	HC22-2118	3238.29	2893.5	344.79	917.03	673	1355	156.5	611	98	173	10.75	65.5	8.73	42.8	7.92	18.2	2.32	13.45	2.12	4.2
472.44	477.36	HC22-2119	3075.07	2715.9	359.17	876.55	629	1265	147.5	579	95.4	179.5	11.15	67.3	9.05	45.6	8.08	19.65	2.45	13.95	2.44	3.7
477.36	482.28	HC22-2120	3538	3155	383	1001.99	735	1475	170	664	111	192.5	11.8	72.4	9.49	47.5	8.44	21	2.67	14.9	2.3	4.3
482.28	487.20	HC22-2121	3021.23	2654.5	366.73	859.43	615	1235	144	565	95.5	185.5	11.35	67.5	9.13	45.8	8.14	20.1	2.49	14.4	2.32	4.6
487.20	492.13	HC22-2122	2750.96	2424.9	326.06	782.06	567	1125	131	515	86.9	163	11.1	60.7	8.06	41.1	7.33	17.45	2.26	12.95	2.11	3.9

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM017	*4,633,278.68*	*475,478.14*	*5,712.60*	*492.13*	*RC*

From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	Light REE					Heavy REE										Sc
							La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
0.00	4.92	HC22-2123	705.67	597.1	108.57	198.74	140.5	273	31.9	128	23.7	56.7	4.06	16.85	2.29	12.85	2.4	6.01	0.9	5.66	0.85	7.1
4.92	9.84	HC22-2124	633.29	529.9	103.39	176.58	123	245	28.1	113.5	20.3	53.4	3.73	16.15	2.08	12.6	2.27	5.95	0.89	5.48	0.84	7.7
9.84	14.76	HC22-2125	1194.38	989	205.38	339.87	208	471	51.2	218	40.8	101.5	10	34.1	4.47	25.4	4.44	11.7	1.76	10.45	1.56	5.2
14.76	19.69	HC22-2126	1075.82	871.3	204.52	333.25	189	377	49.6	216	39.7	101	14.05	32.1	4.15	23.8	4.22	11.4	1.66	10.5	1.64	6.6
19.69	24.61	HC22-2127	1141.76	929.5	212.26	343.24	184	432	51	221	41.5	105	13.55	33.4	4.64	25.1	4.61	12.3	1.58	10.5	1.58	10.8
24.61	29.53	HC22-2128	1190.68	952.9	237.78	370.05	188	428	53.7	236	47.2	119	14.85	38.3	5.05	28.1	5.07	12.95	1.67	11.05	1.74	14
29.53	34.45	HC22-2129	1040.42	819.5	220.92	321.82	153.5	375	45.7	203	42.3	110	14.7	34.1	4.62	26.2	4.74	12.6	1.69	10.55	1.72	13
34.45	39.37	HC22-2131	917.36	702.5	214.86	294.31	129	309	40.2	185.5	38.8	108	13.9	32.6	4.61	25.2	4.57	11.6	1.6	10.95	1.83	16.8
39.37	44.29	HC22-2132	820.36	636.3	184.06	250.81	127.5	284	36.7	156	32.1	95	9.21	27.3	3.81	22.2	4.07	10.2	1.41	9.48	1.38	11.2
44.29	49.21	HC22-2133	838.88	633.2	205.68	268.36	119	275	37	165.5	36.7	104.5	12.2	30.2	4.36	24.8	4.54	11.65	1.61	10.25	1.57	14.1
49.21	54.13	HC22-2134	750.6	562.1	188.5	241.67	104	242	33.3	148.5	34.3	93.7	14.25	28.1	3.87	21.7	4.17	10.9	1.42	9.03	1.36	15.3
54.13	59.06	HC22-2135	2018.98	1461.2	557.78	681.95	220	641	87.2	415	98	298	10.95	86.5	12.25	69.5	12.7	33.2	4.2	26.5	3.98	29
59.06	63.98	HC22-2136	2368.21	1771.5	596.71	801.8	285	774	103.5	495	114	315	10.85	95.8	13.5	75.8	13.3	35.2	4.65	28.3	4.31	32.1
63.98	68.90	HC22-2137	2087.83	1592.9	494.93	673.6	270	723	89.7	415	95.2	260	10.6	79.3	11.1	62.6	11.45	28.6	3.75	24	3.53	20.7
68.90	73.82	HC22-2138	2044.71	1565.3	479.41	658.6	269	711	88.2	405	92.1	250	10.6	76.7	10.9	62.4	11.3	27.5	3.63	22.8	3.58	19.7
73.82	78.74	HC22-2139	1971.52	1476.8	494.72	636.55	247	668	83.6	388	90.2	259	10.4	79	11.15	63.6	11.6	29.3	3.81	23.4	3.46	19
78.74	83.66	HC22-2140	2073.71	1545.7	528.01	667.2	258	702	87.6	403	95.1	275	9.9	84	12.1	69.4	12.75	31.6	4.06	25.4	3.8	16.8
83.66	88.58	HC22-2141	2036.69	1524.9	511.79	655	257	690	85.3	401	91.6	273	10.45	80.6	11.5	65.6	11.6	29	3.76	22.9	3.38	13
88.58	93.50	HC22-2142	1582.83	1114.7	468.13	519.7	168	498	64.1	306	78.6	247	9.68	71.8	10.7	60.3	11.15	27.8	3.65	22.7	3.35	13.1
93.50	98.43	HC22-2143	1867.85	1312.7	555.15	623.1	200	575	75.9	368	93.8	293	10.25	86.4	12.6	72.8	13	32.8	4.18	26.1	4.02	16.4
98.43	103.35	HC22-2144	2253.62	1640.8	612.82	741.05	267	728	93.8	443	109	321	10.55	98.5	14.05	81.2	14.6	36.4	4.58	27.8	4.14	14.4
103.35	108.27	HC22-2145	1924.65	1338.9	585.75	636	202	590	77.6	372	97.3	314	9.57	90.2	13.3	75.8	13.95	34.4	4.33	26.3	3.9	14.4
108.27	113.19	HC22-2146	3115.67	2349.5	766.17	993.1	441	1035	130	600	143.5	406	11.1	124.5	18.1	101.5	18.15	44.2	5.5	32.4	4.72	9.4
113.19	118.11	HC22-2147	838.28	585	253.28	278.13	97.3	248	34.9	163.5	41.3	137	3.73	37.9	5.53	32.9	5.9	15.1	1.94	11.6	1.68	6.8
118.11	123.03	HC22-2148	2276.66	1635.7	640.96	744.65	261	729	93.2	440	112.5	343	8.72	102.5	14.85	84.1	15.2	37.8	4.64	26.3	3.85	8.1
123.03	127.95	HC22-2150	2675.78	1865	810.78	890.7	283	817	108	520	137	434	11.5	127.5	18.7	107	19.25	48.2	5.9	34	4.73	8.6
127.95	132.87	HC22-2151	2417.95	1680.4	737.55	816.9	250	725	97.9	480	127.5	401	11	113.5	16.6	94.9	17.2	43.4	5.34	30.3	4.31	8.1
132.87	137.80	HC22-2152	3039.88	2627.5	412.38	866.81	599	1225	137	565	101.5	207	12.3	73.7	9.81	53.5	9.41	23.2	2.96	17.9	2.6	3.7
137.80	142.72	HC22-2153	4972.56	4279	693.56	1456.3	932	1995	227	954	171	359	13.55	126	16.4	87.9	15.75	37.8	4.68	28.3	4.18	6.3

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM017	*4,633,278.68*	*475,478.14*	*5,712.60*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
142.72	147.64	HC22-2154	2514.26	1712	802.26	855.1	252	730	101	496	133	429	11.85	124	18.6	106.5	19.3	47.9	5.87	34.3	4.94	9.9
147.64	152.56	HC22-2155	2968.28	2573	395.28	836.36	591	1205	134	545	98	202	11.55	69.5	9.16	50.2	8.84	21.7	2.75	17.1	2.48	3.3
152.56	157.48	HC22-2156	3299.87	2860.5	439.37	936.4	665	1325	150.5	610	110	223	12.65	79.5	10.4	55.5	9.7	23.9	3.01	19.05	2.66	4.6
157.48	162.40	HC22-2157	3274.77	2844	430.77	929.75	646	1335	148	606	109	213	13	80.4	10.35	56.4	9.68	23.8	3.04	18.4	2.7	3.9
162.40	167.32	HC22-2158	3209.68	2819.5	390.18	914.48	650	1315	147.5	603	104	196	11.7	72	9.58	50.4	8.72	20.8	2.63	16	2.35	4.2
167.32	172.24	HC22-2159	3356.36	2959.5	396.86	952.72	685	1380	155	631	108.5	204	12.35	71.3	9.22	49	8.48	21.1	2.76	16.3	2.35	3.5
172.24	177.17	HC22-2160	3440.06	3011	429.06	966.55	691	1420	156.5	631	112.5	211	13.55	80.3	10.85	55.7	9.87	23.8	3.02	18.2	2.77	4.7
177.17	182.09	HC22-2161	3299.91	2880.5	419.41	931.2	669	1345	149.5	610	107	208	12.55	78.4	10.2	54.5	9.5	22.8	2.88	17.85	2.73	4.8
182.09	187.01	HC22-2162	3210.67	2803.5	407.17	912.66	648	1305	147.5	598	105	203	12	75.6	9.96	52.2	8.99	22.4	2.87	17.65	2.5	3.8
187.01	191.93	HC22-2163	3288.25	2881	407.25	903.65	666	1375	150	586	104	197	12.45	77.7	10.15	53.5	9.27	23.4	2.89	18.35	2.54	4.2
191.93	196.85	HC22-2164	2733.59	2375.4	358.19	755.35	550	1125	123	489	88.4	174	10.65	68.2	8.95	46	7.93	21.2	2.65	16.35	2.26	4.2
196.85	201.77	HC22-2165	3204.72	2814.5	390.22	882.3	662	1330	145.5	574	103	193.5	11.8	72.4	9.8	50	8.75	22.2	2.75	16.65	2.37	3.6
201.77	206.69	HC22-2166	3584.99	3144.5	440.49	984.35	729	1500	164	638	113.5	214	13.15	83.5	11.25	57.6	10.1	25.8	3.12	19.2	2.77	2.8
206.69	211.61	HC22-2167	3410.21	2996	414.21	927.15	699	1435	154	602	106	198.5	13.05	79.2	10.35	54.8	9.73	24.4	2.95	18.5	2.73	3.5
211.61	216.54	HC22-2168	3828.43	3377.5	450.93	1049.55	795	1605	175.5	684	118	215	13.4	89.1	11.95	60.1	10.35	25.6	3.18	19.5	2.75	3.2
216.54	221.46	HC22-2170	2380.34	2083.8	296.54	647.71	482	1000	106.5	419	76.3	142.5	10.1	56.6	7.61	38.3	6.81	17	2.14	13.6	1.88	3.3
221.46	226.38	HC22-2171	2995.6	2640.8	354.8	824.08	623	1250	136	536	95.8	167.5	12.1	70	9.28	47	8.11	20.3	2.56	15.8	2.15	3.9
226.38	231.30	HC22-2172	2941.75	2584.5	357.25	806.45	603	1230	135	522	94.5	173.5	12.25	68	8.95	46	8	20.5	2.47	15.5	2.08	3.8
231.30	236.22	HC22-2173	3388.62	2982.5	406.12	926	701	1420	155	602	104.5	194	13.85	78.5	10.5	54	9.3	23.1	2.85	17.55	2.47	3
236.22	241.14	HC22-2174	3309.3	2927.5	381.8	902.85	680	1405	151	589	102.5	181	13.6	75.1	9.85	50.5	8.63	22.3	2.69	15.85	2.28	3.4
241.14	246.06	HC22-2175	3342.69	2957.5	385.19	921.91	695	1400	153	604	105.5	189	12.3	73.7	9.71	49.7	8.52	21.5	2.65	15.85	2.26	3.4
246.06	250.98	HC22-2176	3561.67	3148.5	413.17	973.8	744	1495	164	633	112.5	201	13.25	78.9	10.3	54	9.31	23.5	2.83	17.6	2.48	3.8
250.98	255.91	HC22-2177	3279.78	2882	397.78	904.34	669	1370	150.5	589	103.5	194	12.55	75.6	9.94	51.4	9.1	23	2.83	16.9	2.46	3.6
255.91	260.83	HC22-2178	3863.16	3431	432.16	1060.1	806	1630	178.5	695	121.5	216	12.7	81.4	10.5	54.6	9.51	23.9	2.86	18.05	2.64	2.8
260.83	265.75	HC22-2179	3890.2	3451	439.2	1054.6	807	1655	179.5	687	122.5	218	13.1	83.9	11	54.6	9.73	24.8	3	18.4	2.67	3.4
265.75	270.67	HC22-2180	3774.39	3351.5	422.89	1028.95	783	1605	174.5	672	117	207	12.8	81.8	10.65	54.8	9.43	23.3	2.88	17.55	2.68	3.5
270.67	275.59	HC22-2181	3788.1	3366.5	421.6	1032.15	792	1605	174.5	677	118	215	12.65	77.2	10.25	52.4	9.1	23	2.77	16.8	2.43	3.1
275.59	280.51	HC22-2182	3824.69	3396.5	428.19	1048.65	803	1610	175.5	686	122	216	12.45	79.1	10.65	54.5	9.37	23.3	2.85	17.5	2.47	4.8
280.51	285.43	HC22-2183	3066.19	2699.9	366.29	844.41	632	1280	140	552	95.9	181.5	11.35	67.6	9.11	47.4	8.24	20.7	2.51	15.65	2.23	5.6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM017	*4,633,278.68*	*475,478.14*	*5,712.60*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-2184	3463.4	3096.5	366.9	937.24	725	1490	159.5	617	105	182	11.65	69.1	9.14	46.6	8.11	20.5	2.51	15.15	2.14	4.6
290.35	295.28	HC22-2185	3444.96	3092.5	352.46	936.93	734	1475	159.5	619	105	176	11.5	66.4	8.83	44.6	7.65	18.9	2.27	14.3	2.01	3.7
295.28	300.20	HC22-2186	3893.17	3490	403.17	1066.75	819	1665	184	702	120	201	12.1	77.2	10.05	50.7	8.91	22	2.73	16.15	2.33	3.5
300.20	305.12	HC22-2187	3794.32	3350.5	443.82	1046.85	788	1585	175.5	680	122	217	12.7	84.7	11.25	58.1	9.98	25.8	3.11	18.45	2.73	3.8
305.12	310.04	HC22-2188	3978.79	3552	426.79	1084.85	843	1690	185	711	123	211	12.6	81.8	10.75	55.1	9.41	23.6	2.81	17.2	2.52	3.7
310.04	314.96	HC22-2189	3822.45	3381	441.45	1042.6	787	1620	175	681	118	214	13.85	85.6	11.3	57.3	9.95	24.9	3.05	18.9	2.6	3.9
314.96	319.88	HC22-2191	3480.9	3084.5	396.4	957.74	723	1465	161.5	625	110	196.5	12.15	73.8	9.74	51.5	8.81	22.3	2.65	16.65	2.3	4
319.88	324.80	HC22-2192	3596.58	3186.5	410.08	980.65	759	1510	164	642	111.5	199.5	13	78.2	10.45	52.7	9.28	23.3	2.92	18.15	2.58	3.8
324.80	329.72	HC22-2193	3880.56	3461	419.56	1056.85	809	1660	179	693	120	202	12.95	83.2	10.75	54.1	9.36	24.2	2.94	17.5	2.56	4.7
329.72	334.65	HC22-2194	3826.52	3412.5	414.02	1045.7	812	1620	177	685	118.5	197	13.3	83.5	10.9	54.3	9.29	22.7	2.84	17.7	2.49	3.9
334.65	339.57	HC22-2195	4228.08	3770	458.08	1154.6	893	1795	195.5	756	130.5	217	14.1	92.3	11.7	60.9	10.4	25.7	3.26	19.85	2.87	2.4
339.57	344.49	HC22-2196	3267.55	2926.3	341.25	888.09	697	1395	152	583	99.3	159.5	13.45	69	8.89	44.9	7.72	18.9	2.35	14.45	2.09	4
344.49	349.41	HC22-2197	3489.98	3161	328.98	934.06	751	1525	162	618	105	161	12	65.2	8.26	40.8	7.11	17.6	2.13	13	1.88	4.2
349.41	354.33	HC22-2198	2920.53	2611.1	309.43	800.41	613	1245	136	526	91.1	151	11.9	59.2	7.71	39.6	6.55	16.5	2.1	13.05	1.82	3.7
354.33	359.25	HC22-2199	3496.41	3109	387.41	983.16	748	1435	178.5	646	101.5	193.5	12.9	74.2	9.56	47.6	7.98	21.3	2.54	15.5	2.33	3.3
359.25	364.17	HC22-2200	3275.54	2880.2	395.34	926.15	676	1335	166.5	605	97.7	204	12.1	71.9	9.55	47.4	8.35	20.8	2.55	16.3	2.39	2.8
364.17	369.09	HC22-2201	3550	3142	408	996.48	740	1465	180.5	653	103.5	207	12.85	76.2	9.98	49.5	8.79	22.1	2.62	16.45	2.51	1.5
369.09	374.02	HC22-2202	3720.9	3292	428.9	1052.15	782	1520	190	688	112	219	12.55	81.1	10.55	51.6	9.17	22.9	2.79	16.8	2.44	2
374.02	378.94	HC22-2203	3554.25	3134.5	419.75	1007.85	748	1440	181.5	657	108	214	13	77.2	10.35	51	8.83	22.9	2.71	17.15	2.61	1.5
378.94	383.86	HC22-2204	3229.7	2822.3	407.4	915.55	652	1315	162.5	593	99.8	208	12.45	74.5	10.05	50.2	8.57	21.8	2.62	16.7	2.51	2.1
383.86	388.78	HC22-2205	3349.24	2934	415.24	955.8	694	1345	169	621	105	213	12.5	75.5	10.2	50.6	9.01	22.2	2.83	16.9	2.5	2
388.78	393.70	HC22-2206	3547.34	3088.5	458.84	1025.75	706	1425	180.5	663	114	234	12.75	84.2	11.45	56.8	9.88	25.2	3.1	18.55	2.91	1
393.70	398.62	HC22-2207	3182.85	2799	383.85	915.9	649	1290	163.5	596	100.5	197	12.6	69.9	9.2	46.7	8	20.4	2.44	15.3	2.31	1.2
398.62	403.54	HC22-2208	3373.8	2960	413.8	965.2	701	1355	171.5	628	104.5	210	12.75	75.5	10.3	50.9	8.82	22.8	2.88	17.3	2.55	1
403.54	408.46	HC22-2210	3830.11	3408	422.11	1091.65	798	1580	198.5	716	115.5	214	13.45	80	10.55	51.1	9.07	21.7	2.77	17	2.47	0.7
408.46	413.39	HC22-2211	3773.41	3332	441.41	1079.8	777	1540	194.5	705	115.5	227	12.95	80.4	10.9	53.9	9.51	23.8	2.8	17.5	2.65	-0.5
413.39	418.31	HC22-2212	3676.54	3241	435.54	1051.3	773	1480	187.5	688	112.5	224	12.7	79.3	10.6	52.7	9.05	24.2	2.88	17.45	2.66	2.6
418.31	423.23	HC22-2213	3275.39	2872.5	402.89	945.49	656	1330	168.5	614	104	207	12.55	72.1	9.79	49.2	8.52	21.5	2.74	17.15	2.34	1.6
423.23	428.15	HC22-2214	3617.09	3181.5	435.59	1036.2	754	1455	183	678	111.5	224	12.75	78.9	10.8	52.9	9.4	23.8	2.93	17.4	2.71	1.5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM017	4,633,278.68	475,478.14	5,712.60	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-2215	3374.24	2955.5	418.74	965.2	692	1360	170.5	628	105	215	12.35	76.4	10.3	51.4	8.84	22.4	2.9	16.6	2.55	1.8
433.07	437.99	HC22-2216	3351.38	2930	421.38	948.8	693	1350	170.5	612	104.5	216	12.45	76.7	10.3	51.5	9.13	22.8	2.81	17.15	2.54	2.9
437.99	442.91	HC22-2217	3420.03	2990	430.03	978.15	699	1375	174.5	635	106.5	222	12.8	78	10.45	51.7	9.24	22.9	2.89	17.55	2.5	1.4
442.91	447.83	HC22-2218	3784.51	3364	420.51	1073.05	797	1555	193	706	113	214	12.7	80	10.45	50.6	8.86	21.9	2.73	16.8	2.47	2.5
447.83	452.76	HC22-2219	3839.54	3412	427.54	1080.7	819	1575	195.5	710	112.5	217	11.9	81.1	10.8	51.9	9.13	23	2.64	17.5	2.57	2.4
452.76	457.68	HC22-2220	3987.11	3544.5	442.61	1128.6	855	1625	203	741	120.5	224	12.85	85.4	10.7	53.4	9.17	24	2.81	17.65	2.63	1.8
457.68	462.60	HC22-2221	3655.45	3231.5	423.95	1029.6	775	1490	184.5	670	112	216	12.35	78.4	10.6	52.5	8.93	22.8	2.76	17.15	2.46	3.1
462.60	467.52	HC22-2222	3351.8	2961.6	390.2	949.32	709	1360	169	624	99.6	201	11.2	71.4	9.42	47.3	8.39	20.9	2.64	15.6	2.35	1.7
467.52	472.44	HC22-2223	3561.63	3171	390.63	1000.44	762	1465	183.5	655	105.5	199.5	12.05	72.7	9.44	47	8.12	21	2.6	15.8	2.42	2
472.44	477.36	HC22-2224	3820.77	3399	421.77	1083.9	817	1560	194.5	713	114.5	217	11.95	76.7	10.2	51.7	8.8	22.9	2.76	17.35	2.41	1.1
477.36	482.28	HC22-2225	3541.96	3139.5	402.46	1001.68	751	1445	181	659	103.5	208	12.25	73.1	9.78	48.4	8.43	21.5	2.66	15.95	2.39	2.2
482.28	487.20	HC22-2226	3728.65	3313.5	415.15	1046.3	797	1530	190	687	109.5	216	11.8	74.9	10	49.8	8.65	22.2	2.72	16.7	2.38	1
487.20	492.13	HC22-2227	3792.21	3372.5	419.71	1076.2	808	1550	195.5	706	113	214	12.55	78	10.2	51.5	8.92	21.7	2.89	17.5	2.45	2.4

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM018	*4,633,269.49*	*475,279.30*	*5,749.64*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-2228	654.01	530.6	123.41	189.66	114	244	30.9	119	22.7	66.5	4.26	18.1	2.71	14.35	2.66	7.03	0.98	5.96	0.86	8.3
4.92	9.84	HC22-2230	285.64	232.79	52.85	77.05	55.9	106.5	13.3	48.4	8.69	30.1	1.52	6.79	1.02	5.64	1.11	3.14	0.39	2.7	0.44	6.5
9.84	14.76	HC22-2231	781.3	648.9	132.4	233.24	143	290	39	149	27.9	68.5	6.18	21.4	2.84	14.5	2.82	7.4	1.05	6.74	0.97	7.8
14.76	19.69	HC22-2232	1095.69	899	196.69	349.84	184	392	55.4	225	42.6	98.6	13.6	31.8	4.34	22.5	4	10.2	1.39	8.78	1.48	4.7
19.69	24.61	HC22-2233	1119.64	910.3	209.34	361.73	182	395	56.2	233	44.1	104	15.4	33.8	4.73	23.7	4.21	10.85	1.49	9.64	1.52	6.8
24.61	29.53	HC22-2234	1336.45	1102.4	234.05	430.07	221	483	68.8	278	51.6	117	15.1	39	5.27	26.4	4.74	12.75	1.67	10.4	1.72	4.9
29.53	34.45	HC22-2235	1256.28	1025.7	230.58	401.32	194	463	62.2	256	50.5	110.5	15.85	40.1	5.22	27.4	5.02	12.55	1.64	10.55	1.75	7.1
34.45	39.37	HC22-2236	880.36	722.1	158.26	260.69	150	333	42.2	165.5	31.4	79.9	8.97	25	3.39	18.2	3.44	9	1.24	7.82	1.3	5.7
39.37	44.29	HC22-2237	1670.02	1332.9	337.12	560.83	227	594	82.9	357	72	169	12.95	57.2	7.73	41.2	7.62	19.5	2.61	16.55	2.76	22.2
44.29	49.21	HC22-2238	2020.71	1617	403.71	686.46	279	711	102.5	437	87.5	202	13.75	72.3	9.56	49.9	9.13	22.5	3.02	18.6	2.95	12.6
49.21	54.13	HC22-2239	2205.62	1821.2	384.42	712.52	339	826	111	457	88.2	192.5	14.1	68.4	8.92	47.4	8.7	21.5	2.81	17.35	2.74	10.2
54.13	59.06	HC22-2240	1760.46	1410.7	349.76	581.68	251	628	88.1	370	73.6	177.5	12.6	58.8	7.88	42.1	7.94	20.1	2.67	17.35	2.82	15.9
59.06	63.98	HC22-2241	270.64	184.7	85.94	82.35	31.3	81.7	11.65	48.9	11.15	48.4	2.2	10.25	1.58	9.07	1.91	5.23	0.82	5.58	0.9	4.5
63.98	68.90	HC22-2242	1150.47	890.8	259.67	383.31	148.5	396	55	241	50.3	133	9.36	41.3	5.71	31.3	5.96	15.25	2.09	13.55	2.15	18.6
68.90	73.82	HC22-2243	1566.27	1228.9	337.37	528.87	205	544	78.2	334	67.7	168.5	14	55.6	7.67	41.3	7.62	19.5	2.65	17.55	2.98	33.8
73.82	78.74	HC22-2244	1684.26	1345.9	338.36	577.65	224	594	85.3	369	73.6	168	13.6	58.4	7.75	42	7.72	19.05	2.6	16.5	2.74	21.9
78.74	83.66	HC22-2245	1571.62	1242.7	328.92	533.48	208	550	79.4	336	69.3	164	12	56.6	7.58	41.2	7.5	18.8	2.5	16.05	2.69	27
83.66	88.58	HC22-2246	1486.69	1183.1	303.59	497.19	205	525	74.9	316	62.2	154.5	9.81	51.1	6.89	37.2	6.89	17.2	2.41	15.15	2.44	18.3
88.58	93.50	HC22-2247	1597.95	1275.3	322.65	520.21	228	574	78.7	329	65.6	162.5	14.3	53.5	7.31	39.6	7.39	18.3	2.43	15	2.32	8.5
93.50	98.43	HC22-2248	1648.87	1421.7	227.17	493.11	299	663	83.3	322	54.4	112	9.56	40.1	5.21	28.2	5.06	12.95	1.7	10.7	1.69	5.3
98.43	103.35	HC22-2249	3864.73	3486	378.73	1143.71	748	1650	209	767	112	181.5	17.75	74	9.11	46.6	8.34	20.2	2.62	16.05	2.56	7.2
103.35	108.27	HC22-2251	1807.84	1475.1	332.74	564.56	279	680	89.5	358	68.6	167.5	15.05	55.3	7.66	40.8	7.68	19.1	2.49	14.9	2.26	6.4
108.27	113.19	HC22-2252	1515.83	1230.8	285.03	475.54	236	560	74.5	302	58.3	144.5	14.25	46	6.24	34.5	6.26	16.25	2.07	12.95	2.01	7
113.19	118.11	HC22-2253	1713.08	1442.1	270.98	498.47	311	671	83.4	319	57.7	135.5	15.25	43.5	5.97	32.4	6.02	15.4	2.07	12.85	2.02	7
118.11	123.03	HC22-2254	1205.48	990.4	215.08	369.85	192	458	59.3	237	44.1	106	15.9	33.1	4.55	24.9	4.64	12	1.63	10.6	1.76	7
123.03	127.95	HC22-2255	1215.76	999.9	215.86	371.36	198.5	460	59.2	237	45.2	104.5	16.05	34.5	4.66	25.3	4.64	11.9	1.66	10.85	1.8	6.6
127.95	132.87	HC22-2256	1061	858.8	202.2	328.78	164.5	393	51.7	209	40.6	97.5	15.95	32	4.38	23.1	4.42	11.3	1.55	10.3	1.7	7.7
132.87	137.80	HC22-2257	1098.67	871.3	227.37	340.03	168	395	52.6	213	42.7	113	14.65	34.8	4.83	26.9	5.07	13	1.77	11.5	1.85	7.8
137.80	142.72	HC22-2258	973.05	772	201.05	302.8	147	350	46.8	190	38.2	100.5	14.15	30	4.2	23.6	4.38	11.1	1.51	10.05	1.56	7.3

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM018	*4,633,269.49*	*475,279.30*	*5,749.64*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
142.72	147.64	HC22-2259	1005.03	813.9	191.13	310.35	159	371	48.7	197.5	37.7	92.4	15.25	30	4.05	22.4	4.04	10.55	1.49	9.41	1.54	7.4
147.64	152.56	HC22-2260	1062.4	861.7	200.7	328.48	169.5	391	51.8	209	40.4	97.9	15.4	31.4	4.28	23	4.35	11.05	1.59	10.15	1.58	7.2
152.56	157.48	HC22-2261	999.2	810.5	188.7	308.53	155.5	372	48.6	196.5	37.9	91.9	14.8	28.9	3.93	21.6	4.06	10.85	1.48	9.62	1.56	6.9
157.48	162.40	HC22-2262	1069.9	866.2	203.7	328.41	168.5	397	51.9	208	40.8	101.5	14.5	31.4	4.31	23.4	4.38	11.15	1.5	9.89	1.67	7.1
162.40	167.32	HC22-2263	1097.74	891	206.74	341.76	170.5	407	53.9	218	41.6	101.5	14.75	32.7	4.36	23.9	4.5	11.45	1.63	10.3	1.65	7.1
167.32	172.24	HC22-2264	981.9	786.9	195	307.48	148.5	358	47.8	195	37.6	94	14.95	30.8	4.18	22.9	4.26	10.85	1.56	9.86	1.64	7.8
172.24	177.17	HC22-2265	1214.29	972	242.29	379.61	185	442	58.7	239	47.3	118.5	14.4	38.9	5.31	29.3	5.38	14.1	1.96	12.4	2.04	12.6
177.17	182.09	HC22-2266	932.85	744.6	188.25	287.01	143	340	44.7	181	35.9	95.1	12.45	28.5	3.91	21.5	4.01	10.4	1.45	9.42	1.51	8.2
182.09	187.01	HC22-2267	1101.01	895.7	205.31	342.08	176	406	53.7	218	42	99.3	15.6	33.2	4.48	23.9	4.5	11.05	1.54	9.99	1.75	8.8
187.01	191.93	HC22-2268	1039.54	840.1	199.44	323.3	162.5	382	50.3	206	39.3	95.8	14.9	31.9	4.3	23.4	4.31	11.45	1.56	10.15	1.67	8.4
191.93	196.85	HC22-2270	1099.93	898.9	201.03	345.93	173.5	407	54	222	42.4	98.3	15.15	32.1	4.33	23.2	4.24	10.8	1.52	9.72	1.67	8
196.85	201.77	HC22-2271	1003.86	817.8	186.06	311.42	165.5	366	47.8	200	38.5	92	14.7	28.9	3.82	21.3	3.81	10.05	1.32	8.68	1.48	8.2
201.77	206.69	HC22-2272	975.58	788.2	187.38	304.02	158.5	351	46.2	194.5	38	92.1	15	28.9	3.82	21.5	3.87	10.05	1.41	9.22	1.51	8.4
206.69	211.61	HC22-2273	887.63	705.8	181.83	275.33	142	313	41.8	174.5	34.5	90.7	13.9	27.3	3.73	20.8	3.85	9.86	1.38	8.86	1.45	8.3
211.61	216.54	HC22-2274	945.29	758.6	186.69	291.7	154.5	337	44.8	186.5	35.8	93.2	15.25	28	3.8	20.8	3.88	10.05	1.38	8.8	1.53	8
216.54	221.46	HC22-2275	917.29	726.8	190.49	289.28	141	322	43.1	183.5	37.2	94.6	15.65	28.7	3.88	21.6	3.98	10.2	1.37	9.03	1.48	7.9
221.46	226.38	HC22-2276	1087.67	885.6	202.07	324.95	192	396	51	207	39.6	101.5	14.7	30.6	4.15	23.2	4.23	10.9	1.51	9.67	1.61	9
226.38	231.30	HC22-2277	910.54	718.3	192.24	286.96	137	320	43.3	182	36	96.5	15.5	28.5	3.86	21.8	3.94	10.35	1.38	8.88	1.53	10
231.30	236.22	HC22-2278	892.76	707.3	185.46	281.04	138	313	42.4	178.5	35.4	92.2	15.7	27.4	3.74	21	3.85	9.92	1.34	8.82	1.49	11.3
236.22	241.14	HC22-2279	912.8	723.4	189.4	290.69	138	320	43.8	184.5	37.1	95.8	13.9	28.1	3.89	21.4	3.93	10.45	1.4	9.09	1.44	10
241.14	246.06	HC22-2280	905.93	710.2	195.73	288.28	131	317	43	182.5	36.7	99.9	14.5	29	3.88	22.2	4.06	10.5	1.38	8.85	1.46	10.5
246.06	250.98	HC22-2281	920.63	721	199.63	297.73	133	317	44.2	189	37.8	101	15.25	29.9	4.03	22.7	4.21	10.75	1.44	8.85	1.5	12.4
250.98	255.91	HC22-2282	829.97	637.1	192.87	270.77	116	276	39.1	170.5	35.5	96.8	14.95	29.3	3.97	21.7	4.06	10.6	1.37	8.64	1.48	12.9
255.91	260.83	HC22-2283	853.35	664.1	189.25	274.24	122	293	40.4	174	34.7	96	13.9	27.9	3.74	21.4	3.9	10.15	1.43	9.22	1.61	16.6
260.83	265.75	HC22-2284	1079.87	849.9	229.97	347.79	160.5	373	51.6	221	43.8	117.5	15.3	34.9	4.79	26.6	4.82	12.65	1.61	10.1	1.7	13.2
265.75	270.67	HC22-2285	1014.43	798.4	216.03	322.18	161	345	48.1	204	40.3	107.5	15.3	34.3	4.48	25.3	4.7	11.85	1.53	9.54	1.53	11.8
270.67	275.59	HC22-2286	1049.91	838.6	211.31	329.36	164.5	373	49.9	210	41.2	107	15.85	32	4.36	23.9	4.34	11.55	1.46	9.33	1.52	14
275.59	280.51	HC22-2287	959.34	753.5	205.84	305.87	146	330	45.4	192.5	39.6	104	14.1	31.9	4.27	24.1	4.37	11.1	1.47	8.98	1.55	12.7
280.51	285.43	HC22-2288	975.18	770.6	204.58	307.82	150.5	340	46.1	194.5	39.5	104.5	14.35	30.7	4.22	23.5	4.29	11.05	1.44	9.12	1.41	12.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM018	*4,633,269.49*	*475,279.30*	*5,749.64*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*	*TREE*	*LREE*	*HREE*	*MREE*	*Light REE* *La*	*Ce*	*Pr*	*Nd*	*Sm*	*Heavy REE* *Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-2290	953.4	754.3	199.1	301.93	148.5	331	45	191	38.8	100	14.75	30.4	4.13	23	4.27	10.75	1.43	8.88	1.49	13.6
290.35	295.28	HC22-2291	899.81	707.7	192.11	288.12	134.5	311	43	182.5	36.7	97.6	14.4	28.5	3.92	22	4.01	10.25	1.39	8.63	1.41	13.2
295.28	300.20	HC22-2292	852.61	673.1	179.51	267.5	130.5	299	40.2	170	33.4	90.1	13.4	27.5	3.7	20.2	3.79	9.84	1.3	8.32	1.36	11
300.20	305.12	HC22-2293	847	658.4	188.6	268.07	125	291	39.3	168.5	34.6	96.7	13.35	27.8	3.87	21.8	3.91	10.2	1.34	8.24	1.39	12.7
305.12	310.04	HC22-2294	863.24	676.4	186.84	272.09	128.5	301	40.6	172	34.3	95	13.6	27.9	3.79	21.4	3.94	10.25	1.31	8.28	1.37	13.6
310.04	314.96	HC22-2295	990.46	784.1	206.36	307.23	156.5	348	46.9	193.5	39.2	105.5	14.25	30.5	4.13	23.5	4.31	11.25	1.47	9.87	1.58	15.6
314.96	319.88	HC22-2296	891.53	697.9	193.63	281.09	133	310	42	177	35.9	97.9	14.45	28.8	3.89	22.3	4.06	10.4	1.37	8.97	1.49	17.4
319.88	324.80	HC22-2297	901.13	710.8	190.33	285.52	135.5	315	42.6	181.5	36.2	96	14.45	28.8	3.82	21.4	3.99	10.45	1.35	8.62	1.45	19.2
324.80	329.72	HC22-2298	869.87	681.7	188.17	277.36	129.5	300	41.4	175.5	35.3	95.3	14.3	28.2	3.86	21.3	3.91	10.05	1.37	8.41	1.47	20.8
329.72	334.65	HC22-2299	956.88	761.3	195.58	300.87	150.5	336	45.6	191	38.2	99.8	14	29.3	3.97	22.1	4.13	10.65	1.4	8.79	1.44	15.7
334.65	339.57	HC22-2300	889.16	684.8	204.36	289.55	124	299	42	182	37.8	104.5	13.85	30.1	4.05	23.7	4.28	11.4	1.49	9.44	1.55	18.8
339.57	344.49	HC22-2301	952.26	748.9	203.36	302.95	143	330	45	192	38.9	103.5	14.65	30.4	4.05	23	4.2	11.1	1.48	9.45	1.53	19.5
344.49	349.41	HC22-2302	842.24	660	182.24	266.99	125.5	292	39.9	168.5	34.1	90.6	14.85	27.2	3.69	20.8	3.8	9.93	1.33	8.68	1.36	19.9
349.41	354.33	HC22-2303	824.11	655.3	168.81	254.61	131	292	39.1	161.5	31.7	84.1	14	25.2	3.36	18.95	3.49	9.03	1.23	8.08	1.37	20
354.33	359.25	HC22-2304	756.83	594.9	161.93	237.53	115	264	35.7	150	30.2	80.1	13.95	24.1	3.28	18.35	3.43	8.61	1.19	7.64	1.28	21.3
359.25	364.17	HC22-2305	795.04	630.9	164.14	249.72	122	281	37.8	159	31.1	82.1	13.85	24.3	3.22	18.6	3.38	8.61	1.17	7.64	1.27	20.8
364.17	369.09	HC22-2306	1319.91	1066.2	253.71	417.84	210	473	63.6	267	52.6	130.5	15.1	39.4	5.34	29.3	5.29	13.7	1.8	11.45	1.83	15.1
369.09	374.02	HC22-2307	1111.23	912.1	199.13	331.86	172.5	436	51.3	210	42.3	94.2	13.85	33.5	4.46	23.8	4.47	11.45	1.56	10.2	1.64	8.5
374.02	378.94	HC22-2308	1022.48	828.3	194.18	313.84	151	391	46.9	199	40.4	91.5	14	32.1	4.34	23.2	4.38	11.55	1.55	9.97	1.59	8.4
378.94	383.86	HC22-2309	1010.51	816.9	193.61	310.09	149	385	46.5	196	40.4	91.2	14.7	32.2	4.29	22.9	4.3	11.1	1.5	9.78	1.64	8.2
383.86	388.78	HC22-2311	1056.47	850.3	206.17	326.82	153.5	399	48.5	208	41.3	98.4	13.4	35	4.62	24.4	4.68	12.3	1.58	10.15	1.64	8.5
388.78	393.70	HC22-2312	1171.43	957.9	213.53	356.59	177	455	53.8	226	46.1	100.5	14	36.3	4.79	25.9	4.87	12.7	1.66	11.05	1.76	8.2
393.70	398.62	HC22-2313	1237.73	1010.6	227.13	378.1	185.5	479	57.3	241	47.8	108.5	14.2	38.7	5.1	26.9	5.13	13.35	1.82	11.5	1.93	9.5
398.62	403.54	HC22-2314	1134.49	911.7	222.79	352.4	162	429	52.1	223	45.6	106	13.75	37.7	5.1	26.6	5	13.15	1.73	11.85	1.91	9.9
403.54	408.46	HC22-2315	1255.69	1010.5	245.19	391.56	179	476	57.6	246	51.9	116.5	13.95	42.4	5.66	30.4	5.75	14.65	1.92	12	1.96	10
408.46	413.39	HC22-2316	1250.01	1015	235.01	384.87	181.5	483	56.9	243	50.6	112	12.75	41.1	5.37	29	5.34	14.05	1.84	11.7	1.86	9.3
413.39	418.31	HC22-2317	1235.22	1005.6	229.62	380.69	183.5	475	57	242	48.1	109	12.9	40.1	5.39	28.2	5.35	13.55	1.84	11.4	1.89	8.9
418.31	423.23	HC22-2318	1359.58	1099	260.58	435.77	191.5	510	63.3	276	58.2	124.5	13	47	6.07	32.2	5.99	15.3	1.95	12.5	2.07	8.6
423.23	428.15	HC22-2319	1516.04	1216.3	299.74	501.07	199.5	561	70.5	319	66.3	141.5	11.55	57.5	7.37	37.9	7.13	17.45	2.38	14.55	2.41	12.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM018	*4,633,269.49*	*475,279.30*	*5,749.64*	*492.13*	*RC*

From Depth	***To Depth***	***Sample No.***					***Light REE***					***Heavy REE***										
			TREE	***LREE***	***HREE***	***MREE***	***La***	***Ce***	***Pr***	***Nd***	***Sm***	***Y***	***Eu***	***Gd***	***Tb***	***Dy***	***Ho***	***Er***	***Tm***	***Yb***	***Lu***	***Sc***
428.15	433.07	HC22-2320	1476.44	1192.2	284.24	501.99	190.5	543	70.3	320	68.4	130.5	12.05	57.8	6.99	36.3	6.59	16.5	2.13	13.15	2.23	12.1
433.07	437.99	HC22-2321	1640.56	1332.3	308.26	551.62	219	609	77.8	352	74.5	145	12.3	61	7.72	39.6	7.14	17.45	2.25	13.6	2.2	13.8
437.99	442.91	HC22-2322	1968.27	1598.1	370.17	656.28	259	741	95.2	415	87.9	174.5	11.15	73.9	9.58	48.6	8.85	21.9	2.69	16.45	2.55	17
442.91	447.83	HC22-2323	1542.09	1253.5	288.59	501.63	214	583	73.1	318	65.4	135	11.8	55.9	7.33	37.8	7.09	16.7	2.07	12.9	2	14.8
447.83	452.76	HC22-2324	1732.38	1440.9	291.48	550.38	254	682	82.8	351	71.1	137	10.85	57.8	7.48	38	6.86	16.95	2.15	12.45	1.94	10.1
452.76	457.68	HC22-2325	1822.8	1516	306.8	580.74	277	706	88.3	370	74.7	145.5	10.55	60.1	7.74	40	7.26	17.75	2.26	13.55	2.09	12.6
457.68	462.60	HC22-2326	2453.33	2009	444.33	806.6	346	926	118.5	513	105.5	214	10.75	86.4	11.1	58.5	10.65	26.5	3.34	20.1	2.99	17.6
462.60	467.52	HC22-2327	1850.9	1522.2	328.7	587.18	268	718	87.1	374	75.1	156.5	11.75	62.6	8.18	42.8	7.93	19.65	2.43	14.5	2.36	12.2
467.52	472.44	HC22-2328	2136.31	1729.6	406.71	701.49	291	800	102	444	92.6	197.5	10.95	77	9.99	52.9	9.71	24.2	3.03	18.55	2.88	20.8
472.44	477.36	HC22-2330	2730.72	2243.5	487.22	902.7	408	1010	131.5	577	117	233	10.8	97.6	12.5	64.7	11.75	28.7	3.54	21.3	3.33	24
477.36	482.28	HC22-2331	2827.23	2380.5	446.73	864.65	490	1095	133	555	107.5	215	10.75	88.6	11.15	58	10.7	25.9	3.29	20.2	3.14	23.7
482.28	487.20	HC22-2332	2792.29	2292.5	499.79	911.4	418	1040	133	582	119.5	245	11.1	97	12.4	64.5	11.75	28.9	3.58	22.2	3.36	26.7
487.20	492.13	HC22-2333	2058.31	1698.1	360.21	658.44	296	799	97.8	422	83.3	174.5	9.21	69.1	8.74	46.6	8.6	21.6	2.7	16.6	2.56	28.5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM019	*4,633,075.34*	*475,077.07*	*5,825.65*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
0.00	4.92	HC22-2334	2731.33	2494.6	236.73	714.92	600	1215	128.5	479	72.1	107	10.4	50	5.92	29.4	5.29	13.55	1.8	11.55	1.82	9.2
4.92	9.84	HC22-2335	2346.6	2138.3	208.3	642.43	515	1010	121	433	59.3	103	10.05	38.6	4.83	24.3	4.19	10.7	1.48	9.55	1.6	8.8
9.84	14.76	HC22-2336	2223.47	2001.9	221.57	617.49	467	948	110.5	416	60.4	111.5	10.8	38.8	4.99	25.6	4.52	11.55	1.61	10.4	1.8	12
14.76	19.69	HC22-2337	2036.61	1805.8	230.81	579.55	423	835	101.5	388	58.3	116.5	10.75	40.2	5.15	26.6	4.73	11.85	1.73	11.4	1.9	13.6
19.69	24.61	HC22-2338	2119.38	1916.7	202.68	581.52	458	905	106	393	54.7	101.5	9.03	36.7	4.62	23.2	4.14	10.55	1.5	9.82	1.62	11
24.61	29.53	HC22-2339	2394.26	2184.4	209.86	652.2	536	1025	124.5	439	59.9	106.5	8.87	37.5	4.7	24.1	4.26	10.75	1.51	10	1.67	9.3
29.53	34.45	HC22-2340	2627.66	2364.7	262.96	734.81	567	1100	137	488	72.7	130.5	12.5	47.9	6.11	31	5.47	13.6	1.89	12	1.99	12
34.45	39.37	HC22-2341	3136.15	2848.1	288.05	864.78	694	1330	165	577	82.1	144	12.4	53.6	6.78	33.9	5.95	14.4	2.04	12.85	2.13	11
39.37	44.29	HC22-2342	2853.33	2571.1	282.23	796.62	610	1205	149	530	77.1	139	12.55	53	6.62	33.9	5.96	14.6	2.02	12.55	2.03	10.8
44.29	49.21	HC22-2343	2976.14	2696	280.14	833.78	637	1265	154.5	560	79.5	138	13	53.1	6.58	33.2	5.83	14.25	1.95	12.2	2.03	11.4
49.21	54.13	HC22-2344	2380.06	2113.1	266.96	673.89	494	983	122.5	446	67.6	134.5	12.85	45.9	6.09	31.7	5.58	14.05	1.98	12.3	2.01	10
54.13	59.06	HC22-2345	2386.5	2105.6	280.9	671.23	490	984	121.5	443	67.1	142	12.1	48.4	6.43	33.2	5.97	15.1	2.12	13.3	2.28	11
59.06	63.98	HC22-2346	2336.19	2071.5	264.69	663.69	477	968	118.5	440	68	134	12.7	45.5	5.99	31.2	5.56	13.8	1.89	12.05	2	11.2
63.98	68.90	HC22-2347	2497.12	2204.2	292.92	704.61	511	1030	126	464	73.2	149	12.55	50.8	6.81	34.6	6.29	15.55	2.12	13.05	2.15	10.2
68.90	73.82	HC22-2348	2648.83	2349.5	299.33	746.2	551	1095	135.5	491	77	151.5	13.95	52.3	7	35.7	6.39	15.4	2.15	12.9	2.04	10.3
73.82	78.74	HC22-2350	2813.01	2477.7	335.31	814.97	556	1155	144.5	537	85.2	169	14.5	60.5	7.97	40.3	7.13	17.45	2.25	14	2.21	10
78.74	83.66	HC22-2351	3295.23	2916	379.23	975.42	646	1350	169.5	647	103.5	192	14.95	69.4	9.02	46.4	8.21	19.55	2.53	14.8	2.37	9.2
83.66	88.58	HC22-2352	3285.45	2884.5	400.95	995.29	619	1330	167.5	663	105	199	15.65	76	9.79	50	8.62	21.1	2.68	15.6	2.51	9.9
88.58	93.50	HC22-2353	6177.32	5574	603.32	1798.8	1265	2600	322	1205	182	298	18.55	122	15.1	74.7	12.95	30.8	3.99	23.5	3.73	7.4
93.50	98.43	HC22-2354	4589.87	4048	541.87	1406.95	882	1840	238	943	145	272	18.7	103	13.25	67.7	11.7	27.8	3.58	20.9	3.24	4.4
98.43	103.35	HC22-2355	4165.92	3665.5	500.42	1248	793	1700	210	831	131.5	249	17.95	94.5	12.3	63.2	10.9	26.3	3.38	19.85	3.04	4.5
103.35	108.27	HC22-2356	4141.48	3620	521.48	1265.6	772	1660	212	842	134	261	18.25	97.9	12.7	64.9	11.4	27.7	3.56	20.9	3.17	4.6
108.27	113.19	HC22-2357	4189.12	3681.5	507.62	1269.2	808	1680	216	843	134.5	255	17.9	95.1	12.4	63.3	11.05	26.5	3.4	19.95	3.02	4.9
113.19	118.11	HC22-2358	3105.94	2711.5	394.44	943.36	596	1230	161	624	100.5	201	12.7	72.2	9.36	48.5	8.46	20.4	2.73	16.55	2.54	8.5
118.11	123.03	HC22-2359	3377.58	2851.5	526.08	1072.65	575	1280	173.5	701	122	277	14.65	91.1	12.25	63.9	11.6	27.6	3.62	21.1	3.26	16.8
123.03	127.95	HC22-2360	2009.63	1668.6	341.03	629.05	345	744	100	405	74.6	176	12.95	57	7.85	41.6	7.5	18.2	2.47	14.95	2.51	24.7
127.95	132.87	HC22-2361	1553.9	1261.9	292	490.58	249	564	75.6	313	60.3	153	12.15	45.8	6.48	35.2	6.25	15.35	2.13	13.5	2.14	25
132.87	137.80	HC22-2362	1645.23	1370.3	274.93	498.95	289	621	80.6	322	57.7	142	12	43.8	6.05	32.6	5.85	14.6	2.14	13.6	2.29	31.3
137.80	142.72	HC22-2363	3334.66	3020.1	314.56	945.23	710	1410	174	637	89.1	157	12	58	7.43	37.7	6.61	16.4	2.19	14.65	2.58	29.7

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM019	*4,633,075.34*	*475,077.07*	*5,825.65*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
142.72	147.64	HC22-2364	1992.77	1679.1	313.67	604.23	354	766	98.2	392	68.9	161	12.6	51.9	7.13	38	6.82	17	2.3	14.5	2.42	29.9
147.64	152.56	HC22-2365	1648.49	1350.8	297.69	513.77	276	603	80.6	330	61.2	155	12.15	47.4	6.67	35.3	6.38	16	2.27	14.15	2.37	27.3
152.56	157.48	HC22-2366	2380.32	2035.3	345.02	707.65	440	937	119.5	461	77.8	178.5	12.1	57.3	7.75	41.6	7.53	18.75	2.55	16.3	2.64	24.7
157.48	162.40	HC22-2367	1739.42	1433.7	305.72	534.93	295	647	85.2	343	63.5	161	11.45	48.9	6.73	36.5	6.55	16.35	2.21	13.8	2.23	17.7
162.40	167.32	HC22-2368	2101.89	1714.2	387.69	660.8	335	774	103.5	423	78.7	205	10.4	62.1	8.7	46.9	8.63	21.6	2.97	18.35	3.04	32.1
167.32	172.24	HC22-2369	2083.87	1753.7	330.17	622.73	377	801	101.5	404	70.2	172	11.55	54.2	7.43	39.6	7.06	17.7	2.49	15.6	2.54	20.6
172.24	177.17	HC22-2371	1931.11	1637	294.11	580.25	356	742	95.8	378	65.2	152.5	10.55	48.6	6.45	34.8	6.5	16.75	2.14	13.6	2.22	14.7
177.17	182.09	HC22-2372	2035.9	1720.2	315.7	612.95	369	783	102	398	68.2	164.5	9.97	51.5	6.85	37.9	6.88	17.85	2.43	15.3	2.52	17.4
182.09	187.01	HC22-2373	1900.41	1621.7	278.71	562.32	364	734	94	368	61.7	143	10.6	46	6.02	32.6	5.99	16.2	2.12	13.85	2.33	11.8
187.01	191.93	HC22-2374	1383.69	1193.6	190.09	396.82	268	554	67.4	261	43.2	97.3	10.7	30.2	3.92	21.3	3.97	10.6	1.43	9.1	1.57	11.6
191.93	196.85	HC22-2375	1491.66	1306.2	185.46	419.49	310	602	73.5	277	43.7	93	9.93	30.6	3.99	21.3	3.91	10.2	1.48	9.41	1.64	13.4
196.85	201.77	HC22-2376	1588.78	1337	251.78	476.59	288	607	77.4	311	53.6	130.5	10.2	40.1	5.29	29.3	5.48	14.15	1.93	12.7	2.13	18.8
201.77	206.69	HC22-2377	1536.9	1336.7	200.2	435.22	309	620	75	287	45.7	100.5	10.75	33.1	4.32	23.2	4.18	11.05	1.5	9.89	1.71	15.2
206.69	211.61	HC22-2378	1690.55	1494.2	196.35	460.1	363	698	82	305	46.2	97.3	11.6	33.1	4.3	22.6	4.15	10.8	1.49	9.33	1.68	13.2
211.61	216.54	HC22-2379	1472.09	1259.8	212.29	419.98	289	580	71.2	274	45.6	108.5	10.15	34.1	4.48	24.7	4.5	11.7	1.62	10.7	1.84	16.4
216.54	221.46	HC22-2380	1330.8	1093.9	236.9	405.26	235	486	64.9	261	47	122	9.17	37.2	4.96	27.4	5.12	13.5	1.97	13.15	2.43	26.1
221.46	226.38	HC22-2381	1913.55	1683.4	230.15	541.56	394	779	97.1	358	55.3	116.5	10.1	39.3	4.96	26.2	4.83	13.1	1.77	11.4	1.99	18.2
226.38	231.30	HC22-2382	1020.57	828.6	191.97	313.74	171	370	48.9	202	36.7	97.5	9.64	29.7	3.94	22.2	4.1	11.1	1.56	10.35	1.88	25.4
231.30	236.22	HC22-2383	983.61	799.3	184.31	299.95	171	353	47.7	193	34.6	93.9	9.51	28	3.85	20.8	3.99	10.75	1.59	10.05	1.87	22.7
236.22	241.14	HC22-2384	998.46	773.8	224.66	316.9	150.5	336	46.4	202	38.9	117	11.05	32.8	4.5	25.1	4.81	13.1	1.92	12.2	2.18	28.2
241.14	246.06	HC22-2385	1077.45	831.9	245.55	343.74	156.5	364	50.4	218	43	129	11.85	35.1	4.84	27.5	5.29	14.6	2	13.1	2.27	31
246.06	250.98	HC22-2386	953.85	723.4	230.45	311.1	132	311	44.7	196	39.7	119.5	11.15	33.3	4.6	26.1	4.98	13.8	2.04	12.75	2.23	34.7
250.98	255.91	HC22-2387	954.14	730.1	224.04	303.1	138	318	43.9	192	38.2	118.5	10.25	31.7	4.3	24.7	4.82	13.4	1.87	12.45	2.05	28.9
255.91	260.83	HC22-2388	956.98	793.7	163.28	282.68	176.5	356	45.7	183	32.5	83.2	10.05	24.8	3.28	18.2	3.42	9.14	1.29	8.42	1.48	17.2
260.83	265.75	HC22-2390	815.23	653.5	161.73	237.65	142	295	37.6	151.5	27.4	84.6	8.08	22.7	3.25	17.9	3.49	9.64	1.4	9.05	1.62	16.2
265.75	270.67	HC22-2391	1128.07	907.4	220.67	346.58	187.5	403	53.5	223	40.4	113.5	10.45	33.1	4.48	25.2	4.79	13.1	1.86	12.05	2.14	26.8
270.67	275.59	HC22-2392	978.58	764.6	213.98	307.09	153	333	46.3	195	37.3	110	10.75	30.8	4.19	24.3	4.71	12.8	1.88	12.35	2.2	29.4
275.59	280.51	HC22-2393	674.46	503	171.46	212.43	92.4	220	30.6	133	27	90.1	8.7	23.3	3.23	18.6	3.66	10.3	1.53	10.2	1.84	24.1
280.51	285.43	HC22-2394	788.15	604.4	183.75	250.55	113	264	36.9	159.5	31	95.2	10.85	26.1	3.5	19.65	3.8	10.65	1.57	10.55	1.88	29.1

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM019	*4,633,075.34*	*475,077.07*	*5,825.65*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-2395	671.36	494.8	176.56	219.79	85.1	212	30.7	139	28	90.3	12.45	23.7	3.24	18.85	3.64	10.6	1.49	10.4	1.89	32.8
290.35	295.28	HC22-2396	713.4	526.3	187.1	237.17	90.3	223	33.2	149.5	30.3	96.2	11.9	25.9	3.57	20.6	3.92	10.8	1.6	10.65	1.96	41.5
295.28	300.20	HC22-2397	727.71	534.9	192.81	241.96	88.4	229	33.6	152.5	31.4	99.5	11.4	27.1	3.66	20.8	4.06	11.35	1.66	11.25	2.03	43.1
300.20	305.12	HC22-2398	790.55	588.1	202.45	260.44	100.5	253	36.6	165	33	104.5	12.15	28.1	3.84	22	4.3	11.95	1.72	11.75	2.14	38.6
305.12	310.04	HC22-2399	733.86	535.5	198.36	245.41	88.2	227	34.1	154.5	31.7	103	12.2	27.1	3.71	21.4	4.13	11.45	1.7	11.55	2.12	41.8
310.04	314.96	HC22-2400	735.45	543.2	192.25	242.61	92.5	233	33.9	153	30.8	99.2	11.6	26.4	3.71	21.2	4.03	11.4	1.65	11.1	1.96	44.4
314.96	319.88	HC22-2401	744.18	552.5	191.68	244.73	95.6	237	34.4	154	31.5	98.3	11.45	27.3	3.73	21.1	4.03	11.15	1.64	10.95	2.03	45.4
319.88	324.80	HC22-2402	505.61	384.6	121.01	153.77	74.8	171.5	22.9	96.5	18.9	65.1	5.62	16.05	2.27	13.2	2.57	7.13	1.01	6.86	1.2	19.8
324.80	329.72	HC22-2403	571.57	427.3	144.27	180.22	78.4	187.5	25.9	112.5	23	75.5	7.58	20	2.77	16.05	2.99	8.63	1.22	8.07	1.46	31
329.72	334.65	HC22-2404	741.69	540.5	201.19	245.78	90.8	230	33.9	153.5	32.3	102.5	12	28.5	3.88	22.2	4.28	12.05	1.75	11.9	2.13	39.4
334.65	339.57	HC22-2405	718.07	527.3	190.77	238.82	88.1	225	33.2	151	30	97.5	11.25	27.1	3.72	20.9	4.06	11.35	1.67	11.15	2.07	43
339.57	344.49	HC22-2406	715.47	529.5	185.97	234.91	90.6	228	33.1	148	29.8	95.2	11.8	26	3.61	20.4	3.95	11	1.57	10.5	1.94	40.3
344.49	349.41	HC22-2407	682.7	513.3	169.4	225.55	91.7	219	31.6	140.5	30.5	85	10.15	24.2	3.4	19.55	3.66	10.35	1.35	10	1.74	26.2
349.41	354.33	HC22-2408	635.82	523.4	112.42	193.82	111	234	30	124.5	23.9	56.6	6.71	16.95	2.32	13.1	2.3	6.63	0.88	5.96	0.97	10.4
354.33	359.25	HC22-2410	897.22	736.9	160.32	280.35	150	329	43.6	180.5	33.8	78.3	8.7	25.4	3.3	19.15	3.4	9.6	1.33	9.45	1.69	13.6
359.25	364.17	HC22-2411	1028.96	834.1	194.86	327.83	160.5	372	49.9	210	41.7	96	9.96	30.4	4.03	22.2	4.08	11.95	1.61	12.55	2.08	19.3
364.17	369.09	HC22-2412	826.89	643.6	183.29	272	117.5	278	39.5	172.5	36.1	93.5	9.24	27.2	3.6	20.3	3.85	10.9	1.56	11.3	1.84	21.4
369.09	374.02	HC22-2413	811.41	652.6	158.81	263.52	123	287	39.5	169.5	33.6	79.6	9.61	23.8	3.07	17.85	3.37	9.12	1.29	9.46	1.64	20.1
374.02	378.94	HC22-2414	813.92	654.8	159.12	259.63	127.5	289	38.8	168	31.5	80.6	9.15	23.2	3.03	18.3	3.3	9.43	1.32	9.27	1.52	9
378.94	383.86	HC22-2415	680.71	537.8	142.91	211.18	105.5	239	31.9	134	27.4	77.5	5.43	19.55	2.78	15.1	3	8.65	1.2	8.45	1.25	6.1
383.86	388.78	HC22-2416	733.99	582.5	151.49	231.34	114	257	34.8	146.5	30.2	76	10.95	22	2.94	16.9	3.08	8.53	1.28	8.41	1.4	8.5
388.78	393.70	HC22-2417	713.89	560.6	153.29	227.44	106	247	33.7	143.5	30.4	76.6	10.5	22.6	3.04	16.8	3.27	8.94	1.2	8.94	1.4	9.4
393.70	398.62	HC22-2418	1458.25	1274	184.25	434.45	273	592	72.3	288	48.7	89.8	11.3	31.1	3.95	21.5	3.92	10.2	1.38	9.53	1.57	5.3
398.62	403.54	HC22-2419	972.38	788.3	184.08	310.21	150.5	352	46.5	201	38.3	93.2	9.17	27.6	3.51	20.9	3.97	11.2	1.6	11.15	1.78	8.3
403.54	408.46	HC22-2420	995.63	789.1	206.53	334.1	142	342	48	214	43.1	105	8.76	31.3	4.3	24.7	4.4	12.3	1.74	11.95	2.08	13.4
408.46	413.39	HC22-2421	975.27	789.3	185.97	307.71	154	352	46.7	197	39.6	97.6	7.05	27.7	3.61	20.8	3.9	11.3	1.61	10.7	1.7	2.6
413.39	418.31	HC22-2422	3301.21	3070.3	230.91	905.79	728	1470	168	615	89.3	106.5	10.9	48	5.39	28.1	4.73	12.1	1.64	11.65	1.9	7.3
418.31	423.23	HC22-2423	1519.71	1341.3	178.41	445.05	290	631	75.8	296	48.5	87.9	9.82	30.1	3.85	20.9	3.63	9.71	1.32	9.58	1.6	6
423.23	428.15	HC22-2424	1594.02	1399.1	194.92	462.29	311	653	78.4	306	50.7	96	10.45	33.5	4.19	23	4.07	10.75	1.42	9.93	1.61	10.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM019	4,633,075.34	475,077.07	5,825.65	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-2425	2926.4	2658.2	268.2	823.18	603	1270	147.5	554	83.7	127	10.75	52.5	6.08	31.9	5.72	15.25	2.13	14.4	2.47	12.4
433.07	437.99	HC22-2426	7322.31	6948.5	373.81	1978.28	1715	3310	379	1365	179.5	166.5	13.5	90.3	9.38	45.4	7.25	19.35	2.43	16.9	2.8	14.3
437.99	442.91	HC22-2427	4442.43	4151.5	290.93	1203.99	1020	1970	224	823	114.5	134	11.4	63.8	6.99	35.5	5.81	15.35	1.94	14	2.14	11.6
442.91	447.83	HC22-2428	2975.89	2741.9	233.99	831.07	645	1300	149.5	563	84.4	109.5	10.45	47.3	5.57	28.6	4.84	12.45	1.68	11.7	1.9	11
447.83	452.76	HC22-2429	2671.46	2444.2	227.26	739.75	562	1175	133	499	75.2	107.5	10.7	44.7	5.15	27.4	4.6	12.45	1.6	11.15	2.01	10.5
452.76	457.68	HC22-2431	1522.75	1345.7	177.05	434.98	295	640	73.7	288	49	87.2	9.01	30.1	3.78	20.5	3.6	10.4	1.44	9.42	1.6	9.5
457.68	462.60	HC22-2432	2014.97	1787.9	227.07	587.42	387	845	99.4	390	66.5	114	9.07	40.3	4.92	26.6	4.67	12.85	1.74	11	1.92	7.6
462.60	467.52	HC22-2433	1791.56	1593.8	197.76	524.5	348	749	88.9	350	57.9	94	10.05	36.6	4.5	23.2	4.22	11.45	1.5	10.4	1.84	7.6
467.52	472.44	HC22-2434	2092.22	1887.6	204.62	600.86	423	893	104.5	404	63.1	96.9	9.46	39.6	4.56	24.7	4.27	11.3	1.45	10.6	1.78	11.4
472.44	477.36	HC22-2435	2266.45	2050.7	215.75	640.68	462	979	113	430	66.7	103.5	9.86	40.5	4.88	26.1	4.62	11.85	1.62	11.1	1.72	10.4
477.36	482.28	HC22-2436	2554.89	2342.5	212.39	720.01	533	1120	129	486	74.5	98.8	10.5	42.3	4.81	25.7	4.34	11.7	1.49	10.9	1.85	9.6
482.28	487.20	HC22-2437	2509.51	2298.2	211.31	698.82	519	1110	124.5	472	72.7	101	11.85	40.8	4.92	24.7	4.31	10.35	1.46	10.2	1.72	9.8
487.20	492.13	HC22-2438	2625.94	2415.2	210.74	744.47	555	1145	135	503	77.2	100.5	11.55	41.4	4.97	24.3	4.24	10.8	1.49	9.83	1.66	6.7

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM020	4,632,864.52	474,818.89	5,861.10	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-2439	901.53	763.3	138.23	247.09	174.5	361	40	159.5	28.3	72.9	4.23	21.6	2.69	16.6	2.9	8.05	1.06	7.1	1.1	5.9
4.92	9.84	HC22-2440	767.61	650.1	117.51	214.36	148.5	303	34.3	139	25.3	63.2	3.94	18	2.26	13.5	2.48	6.27	0.9	5.94	1.02	6.3
9.84	14.76	HC22-2441	559.39	453.7	105.69	159.15	99.3	209	24.2	100.5	20.7	56.9	3.77	16.1	2.05	11.7	2.13	5.89	0.81	5.46	0.88	7.2
14.76	19.69	HC22-2442	453.98	371.4	82.58	125.47	83	174	19.5	79.9	15	46.2	1.88	11.4	1.54	9.53	1.78	4.39	0.64	4.5	0.72	3.8
19.69	24.61	HC22-2443	98.94	80.14	18.8	27.42	17.8	37.2	4.22	17.4	3.52	10.7	0.47	2.61	0.36	1.92	0.41	1.18	0.14	0.87	0.14	1
24.61	29.53	HC22-2444	106.31	89.51	16.8	29.5	20.4	41.8	4.72	18.9	3.69	9.3	0.49	2.55	0.3	1.89	0.34	0.91	0.13	0.77	0.12	1.5
29.53	34.45	HC22-2445	25.3	20.8	4.5	7.34	4.8	9.3	1.2	4.6	0.9	2.3	0.17	0.74	0.11	0.53	0.07	0.31	0.04	0.2	0.03	1.3
34.45	39.37	HC22-2446	15.57	12.89	2.68	4.29	3	6.1	0.69	2.5	0.6	1.2	0.12	0.5	0.07	0.43	0.05	0.18	0.02	0.09	0.02	1.2
39.37	44.29	HC22-2447	14.45	12	2.45	4.09	2.7	5.6	0.68	2.5	0.52	1.2	0.08	0.36	0.05	0.34	0.04	0.18	0.01	0.16	0.03	1.3
44.29	49.21	HC22-2448	27.68	24.13	3.55	7.86	5.7	11.1	1.32	5.1	0.91	1.8	0.12	0.59	0.09	0.44	0.06	0.25	0.02	0.16	0.02	0.6
49.21	54.13	HC22-2450	345.87	334	11.87	55.75	124.5	155.5	13.25	36.3	4.45	5	1.22	2.68	0.34	1.41	0.2	0.61	0.05	0.3	0.06	0.8
54.13	59.06	HC22-2451	435.89	349.8	86.09	117.18	83.7	160.5	19.6	71.5	14.5	48	1.2	11	1.68	9.9	1.88	5.84	0.73	5.06	0.8	3.3
59.06	63.98	HC22-2452	92.01	69.02	22.99	22.96	17.2	31.7	3.74	13.4	2.98	13.4	0.28	2.7	0.4	2.44	0.46	1.47	0.21	1.4	0.23	3.5
63.98	68.90	HC22-2453	26.09	19.65	6.44	6.55	5.2	8.8	1.04	3.9	0.71	3.6	0.1	0.76	0.14	0.76	0.12	0.44	0.05	0.41	0.06	7.5
68.90	73.82	HC22-2454	82.77	63.68	19.09	20.01	16.4	29.7	3.43	11.6	2.55	11	0.47	2.15	0.35	2.08	0.4	1.22	0.17	1.1	0.15	5.2
73.82	78.74	HC22-2455	4159.46	3687	472.46	1144.3	889	1725	201	741	131	231	9.85	93.4	11.8	59.5	10.5	28.2	3.46	21.3	3.45	4.4
78.74	83.66	HC22-2456	6967.83	6228	739.83	1968.05	1495	2880	365	1265	223	352	16.45	154.5	19.05	96	16.25	42.8	5.04	32.5	5.24	4.2
83.66	88.58	HC22-2457	4045.06	3520	525.06	1133.15	831	1635	191.5	726	136.5	259	12	99.6	12.85	66.3	11.7	31.6	3.81	24.2	4	6.4
88.58	93.50	HC22-2458	1184.32	991	193.32	328.97	218	472	55.1	205	40.9	102	3.37	31.4	4.47	23.5	4.13	11.95	1.54	9.45	1.51	4.5
93.50	98.43	HC22-2459	130.53	109.63	20.9	35.31	26.9	50.3	5.94	22	4.49	11.4	0.41	3.28	0.44	2.44	0.43	1.24	0.16	0.95	0.15	2.7
98.43	103.35	HC22-2460	1584.7	1366	218.7	441.65	305	650	74.7	284	52.3	112	5.67	37.3	4.85	25.8	4.61	13.3	1.69	11.6	1.88	6
103.35	108.27	HC22-2461	2367.47	2073.6	293.87	641.75	502	971	112	416	72.6	146.5	9.29	51.7	6.55	34.6	6.18	17.85	2.33	16.2	2.67	11.4
108.27	113.19	HC22-2462	1968.19	1704.2	263.99	566.95	360	817	87.7	377	62.5	128.5	9.12	45.6	5.95	33.8	6	15.8	2.16	14.8	2.26	14.6
113.19	118.11	HC22-2463	1325.29	1139.1	186.19	381.04	233	554	58.2	251	42.9	90.3	5.44	32.5	4.34	24.6	4.24	11.4	1.54	10.15	1.68	8.2
118.11	123.03	HC22-2464	45.28	38.13	7.15	13.34	8.6	17.2	2.04	8.8	1.49	3.8	0.15	1.18	0.14	0.87	0.17	0.37	0.05	0.36	0.06	1.2
123.03	127.95	HC22-2465	54.55	42.5	12.05	18.03	7.7	18.6	2.55	11.6	2.05	6.5	0.16	1.7	0.23	1.6	0.28	0.72	0.1	0.67	0.09	1.9
127.95	132.87	HC22-2466	27.23	22.74	4.49	8.02	5	10.3	1.21	5.3	0.93	2.5	0.1	0.72	0.09	0.49	0.09	0.25	0.03	0.19	0.03	2.4
132.87	137.80	HC22-2467	14.64	12.33	2.31	4.46	2.8	5.4	0.66	3	0.47	1.2	0.06	0.4	0.05	0.28	0.05	0.14	0.02	0.1	0.01	1.9
137.80	142.72	HC22-2468	8.06	6.71	1.35	2.53	1.4	3	0.37	1.6	0.34	0.7	0.04	0.19	0.02	0.2	0.03	0.08	0.01	0.07	0.01	-0.5

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM020	*4,632,864.52*	*474,818.89*	*5,861.10*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
142.72	147.64	HC22-2470	8.22	6.79	1.43	2.59	1.4	3	0.38	1.7	0.31	0.8	0.04	0.23	0.02	0.18	0.02	0.06	0.01	0.06	0.01	0.6
147.64	152.56	HC22-2471	6.895	5.85	1.045	2.12	1.3	2.6	0.28	1.4	0.27	0.5	0.02	0.2	0.03	0.14	0.02	0.07	0.01	0.05	-0.01	-0.5
152.56	157.48	HC22-2472	6.095	5.18	0.915	1.81	1.2	2.3	0.27	1.2	0.21	0.5	0.03	0.14	0.02	0.11	0.02	0.05	0.01	0.03	-0.01	-0.5
157.48	162.40	HC22-2473	6.66	5.34	1.32	2.05	1.2	2.3	0.24	1.4	0.2	0.7	0.02	0.2	0.03	0.18	0.03	0.08	0.01	0.05	0.02	-0.5
162.40	167.32	HC22-2474	17.48	14.89	2.59	4.52	3.9	6.9	0.73	2.9	0.46	1.4	0.04	0.39	0.04	0.39	0.05	0.12	0.01	0.13	0.02	-0.5
167.32	172.24	HC22-2475	83.79	67.74	16.05	24.7	14.7	30.7	3.72	15.7	2.92	8.5	0.24	2.48	0.38	1.98	0.37	1.02	0.12	0.82	0.14	0.9
172.24	177.17	HC22-2476	8.85	7.13	1.72	2.24	1.9	3.2	0.39	1.4	0.24	1	-0.02	0.25	0.03	0.18	0.03	0.08	0.02	0.11	0.01	-0.5
177.17	182.09	HC22-2477	6.795	5.48	1.315	2.08	1.2	2.4	0.32	1.3	0.26	0.7	0.03	0.23	0.04	0.16	0.02	0.07	0.01	0.05	-0.01	-0.5
182.09	187.01	HC22-2478	7.31	5.56	1.75	2.09	1.3	2.4	0.34	1.3	0.22	1	0.07	0.18	0.04	0.19	0.03	0.1	0.02	0.11	0.01	-0.5
187.01	191.93	HC22-2479	4.41	3.31	1.1	1.13	0.8	1.5	0.17	0.7	0.14	0.7	0.02	0.12	0.02	0.1	0.02	0.06	0.01	0.04	0.01	-0.5
191.93	196.85	HC22-2480	5.26	4.22	1.04	1.56	0.9	1.9	0.25	0.9	0.27	0.6	-0.02	0.16	0.02	0.12	0.04	0.04	0.01	0.03	0.01	-0.5
196.85	201.77	HC22-2481	4.36	3.53	0.83	1.22	0.8	1.6	0.15	0.8	0.18	0.5	0.02	0.13	0.02	0.07	0.02	0.04	0.01	-0.03	-0.01	-0.5
201.77	206.69	HC22-2482	4.2	2.98	1.22	1.08	0.7	1.3	0.15	0.7	0.13	0.8	0.03	0.13	0.02	0.08	0.03	0.06	0.01	0.05	0.01	-0.5
206.69	211.61	HC22-2483	56.64	39.75	16.89	18.89	6.7	16.5	2.32	11.6	2.63	9.2	0.23	2.4	0.3	2.04	0.39	1.05	0.15	0.99	0.14	1.4
211.61	216.54	HC22-2484	717.28	595.6	121.68	208.75	129.5	276	31.9	135.5	22.7	63.3	2.55	18.6	2.75	15.9	2.69	7.29	0.92	6.7	0.98	8.6
216.54	221.46	HC22-2485	573.19	465.1	108.09	167.42	100.5	213	25.3	107	19.3	57.3	2.34	15.3	2.22	13.6	2.37	6.79	0.96	6.34	0.87	6.8
221.46	226.38	HC22-2486	1589.38	1380.5	208.88	434.12	301	676	69.2	288	46.3	109	3.76	33.4	4.62	26	4.69	12.65	1.69	11.35	1.72	6.9
226.38	231.30	HC22-2487	897.55	748.2	149.35	250.41	154.5	365	38.6	162	28.1	78.9	2.47	23.1	3.11	18.6	3.39	9.34	1.21	8.09	1.14	6.3
231.30	236.22	HC22-2488	1114.19	940	174.19	303.65	199.5	463	46.8	197	33.7	89.1	4.15	27.2	3.75	22.4	4.08	10.9	1.43	9.59	1.59	8.4
236.22	241.14	HC22-2489	687.25	546.5	140.75	200.9	115	251	29.9	127	23.6	77	1.61	19.5	2.9	17.5	3.24	8.94	1.19	7.73	1.14	4.2
241.14	246.06	HC22-2491	49.51	39.59	9.92	13.04	9.5	18.4	2.08	8.2	1.41	5.6	0.13	1.26	0.17	1.18	0.23	0.61	0.09	0.56	0.09	0.8
246.06	250.98	HC22-2492	60.33	44.26	16.07	16.38	9.5	20.5	2.36	9.9	2	9.4	0.14	1.73	0.26	1.86	0.36	1.12	0.14	0.93	0.13	1.1
250.98	255.91	HC22-2493	36.62	26.97	9.65	9.53	6.1	12.5	1.45	5.8	1.12	5.8	0.08	1.01	0.16	1	0.22	0.57	0.1	0.63	0.08	0.6
255.91	260.83	HC22-2494	15.12	11.46	3.66	3.92	2.7	5.3	0.58	2.4	0.48	2.2	0.06	0.39	0.07	0.39	0.07	0.2	0.04	0.21	0.03	0.9
260.83	265.75	HC22-2495	9.67	6.73	2.94	2.33	1.5	3.2	0.35	1.4	0.28	1.9	0.07	0.26	0.05	0.25	0.05	0.18	0.02	0.14	0.02	0.5
265.75	270.67	HC22-2496	8.37	6.09	2.28	2.11	1.4	2.9	0.33	1.2	0.26	1.3	0.05	0.19	0.04	0.28	0.07	0.17	0.03	0.13	0.02	-0.5
270.67	275.59	HC22-2497	6.76	4.57	2.19	1.51	1	2.3	0.24	0.8	0.23	1.4	0.03	0.17	0.03	0.21	0.04	0.15	0.01	0.13	0.02	0.5
275.59	280.51	HC22-2498	8.73	6.49	2.24	1.8	1.7	3.2	0.32	1.1	0.17	1.5	0.06	0.21	0.03	0.18	0.03	0.1	0.02	0.09	0.02	0.7
280.51	285.43	HC22-2499	6.775	4.86	1.915	1.47	1.2	2.4	0.23	0.9	0.13	1.2	0.06	0.21	0.02	0.19	0.04	0.09	0.02	0.08	-0.01	0.8

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM020	*4,632,864.52*	*474,818.89*	*5,861.10*	*492.13*	*RC*

From Depth	To Depth	Sample No.					Light REE					Heavy REE										
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
285.43	290.35	HC22-2500	8.9	6.07	2.83	1.88	1.4	3.1	0.32	1	0.25	1.8	0.05	0.28	0.05	0.26	0.05	0.14	0.02	0.17	0.01	0.7
290.35	295.28	HC22-2501	11.07	7.78	3.29	2.46	1.8	3.8	0.39	1.4	0.39	2.1	0.11	0.34	0.03	0.25	0.06	0.2	0.03	0.16	0.01	1.7
295.28	300.20	HC22-2502	10.5	6.71	3.79	2.09	1.5	3.5	0.31	1.1	0.3	2.3	0.09	0.38	0.05	0.33	0.08	0.24	0.03	0.26	0.03	0.8
300.20	305.12	HC22-2503	10.42	7.17	3.25	2.44	1.6	3.5	0.4	1.4	0.27	2	0.07	0.33	0.06	0.31	0.07	0.23	0.01	0.15	0.02	0.7
305.12	310.04	HC22-2504	19.03	12.41	6.62	4.3	2.9	5.9	0.7	2.3	0.61	4.4	0.14	0.53	0.09	0.6	0.12	0.38	0.04	0.26	0.06	0.7
310.04	314.96	HC22-2505	9.49	6.9	2.59	2	1.8	3.4	0.33	1.2	0.17	1.7	0.04	0.25	0.04	0.26	0.05	0.09	0.01	0.13	0.02	0.7
314.96	319.88	HC22-2506	9.33	6.56	2.77	2.08	1.6	3.1	0.27	1.4	0.19	1.8	0.05	0.31	0.05	0.17	0.05	0.17	0.02	0.12	0.03	1
319.88	324.80	HC22-2507	14.69	10.44	4.25	3.13	2.2	5.6	0.49	1.8	0.35	2.6	0.09	0.44	0.05	0.44	0.09	0.28	0.03	0.2	0.03	0.6
324.80	329.72	HC22-2508	18.58	12.89	5.69	4.23	3	6.3	0.64	2.5	0.45	3.6	0.12	0.55	0.08	0.56	0.1	0.31	0.05	0.28	0.04	1.2
329.72	334.65	HC22-2510	23.08	16.67	6.41	5.06	4.4	7.9	0.79	2.9	0.68	3.9	0.16	0.64	0.11	0.58	0.12	0.43	0.05	0.36	0.06	1.3
334.65	339.57	HC22-2511	21.34	15	6.34	4.8	3.7	7.3	0.74	2.8	0.46	3.9	0.13	0.55	0.08	0.72	0.1	0.33	0.05	0.43	0.05	1.2
339.57	344.49	HC22-2512	44.84	34.46	10.38	11.32	8.1	16.3	1.82	7	1.24	6	0.21	1.17	0.18	1.08	0.22	0.62	0.09	0.7	0.11	2.1
344.49	349.41	HC22-2513	35.12	27.21	7.91	8.77	6.7	12.8	1.41	5.3	1	4.5	0.2	0.89	0.16	0.9	0.17	0.49	0.08	0.44	0.08	2.4
349.41	354.33	HC22-2514	32.44	22.72	9.72	7.52	5.4	11	1.12	4.3	0.9	5.9	0.15	0.87	0.16	1.04	0.18	0.53	0.09	0.7	0.1	1.8
354.33	359.25	HC22-2515	36.46	26.39	10.07	7.53	6.7	13.2	1.36	4.3	0.83	6.1	0.2	0.97	0.13	0.91	0.19	0.67	0.12	0.65	0.13	3.1
359.25	364.17	HC22-2516	39.12	29.52	9.6	9.77	6.7	14.2	1.56	6	1.06	5.8	0.19	1.18	0.16	0.99	0.19	0.51	0.07	0.45	0.06	1.7
364.17	369.09	HC22-2517	20.55	14.7	5.85	4.46	3.5	7.4	0.72	2.5	0.58	3.7	0.15	0.51	0.07	0.59	0.12	0.33	0.06	0.27	0.05	2.1
369.09	374.02	HC22-2518	20.71	14.63	6.08	4.68	3.5	7.1	0.75	2.6	0.68	3.7	0.13	0.68	0.11	0.54	0.12	0.38	0.06	0.31	0.05	1.7
374.02	378.94	HC22-2519	30.11	20.92	9.19	6.97	5.2	9.8	1.02	4.2	0.7	5.8	0.13	0.76	0.12	0.93	0.17	0.48	0.09	0.64	0.07	1.5
378.94	383.86	HC22-2520	29.67	21.98	7.69	6.89	5.1	10.8	1.2	4.2	0.68	4.6	0.16	0.95	0.1	0.71	0.17	0.5	0.07	0.38	0.05	2.1
383.86	388.78	HC22-2521	20.79	14.75	6.04	4.9	3.4	7.1	0.73	3	0.52	3.5	0.18	0.63	0.08	0.57	0.12	0.4	0.05	0.44	0.07	2.1
388.78	393.70	HC22-2522	19.03	13.29	5.74	4.2	3.2	6.5	0.67	2.5	0.42	3.5	0.12	0.49	0.07	0.54	0.13	0.45	0.05	0.34	0.05	1.5
393.70	398.62	HC22-2523	22.02	14.88	7.14	4.76	3.5	7.3	0.77	2.7	0.61	4.5	0.16	0.77	0.1	0.58	0.14	0.45	0.07	0.32	0.05	1.6
398.62	403.54	HC22-2524	30.5	22.97	7.53	7.54	5.2	11.1	1.2	4.7	0.77	4.8	0.16	0.75	0.12	0.75	0.14	0.36	0.06	0.35	0.04	1.3
403.54	408.46	HC22-2525	17.85	12.74	5.11	4.18	3.2	6	0.67	2.4	0.47	3.2	0.11	0.51	0.07	0.57	0.08	0.26	0.03	0.24	0.04	1.6
408.46	413.39	HC22-2526	15.39	10.72	4.67	3.49	2.6	5.1	0.5	2	0.52	3.1	0.07	0.42	0.05	0.42	0.09	0.29	0.03	0.17	0.03	1.3
413.39	418.31	HC22-2527	20.9	15.02	5.88	4.56	3.7	7.4	0.78	2.6	0.54	3.6	0.13	0.57	0.07	0.57	0.12	0.41	0.06	0.29	0.06	2.2
418.31	423.23	HC22-2528	27.21	20.26	6.95	6.73	4.7	9.8	1.04	3.9	0.82	4.2	0.15	0.66	0.13	0.84	0.15	0.36	0.05	0.37	0.04	2
423.23	428.15	HC22-2530	23.21	17.09	6.12	5.43	4.2	8.3	0.87	3.1	0.62	3.5	0.16	0.7	0.09	0.75	0.12	0.33	0.05	0.37	0.05	1.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM020	*4,632,864.52*	*474,818.89*	*5,861.10*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
428.15	433.07	HC22-2531	61.85	44.86	16.99	16.51	9.3	21.3	2.57	9.6	2.09	9.7	0.27	2.04	0.28	1.97	0.39	1.15	0.16	0.89	0.14	2.6
433.07	437.99	HC22-2532	584.7	466.4	118.3	167.08	101	216	25.2	103	21.2	62.3	1.5	20.7	2.63	15.05	2.61	6.72	0.86	5.2	0.73	3.3
437.99	442.91	HC22-2533	120.16	94.4	25.76	23.17	28.7	45.6	4.07	13.6	2.43	15.3	0.59	2.61	0.42	2.65	0.53	1.73	0.22	1.49	0.22	4.3
442.91	447.83	HC22-2534	113.16	82.93	30.23	24.03	22.3	39.9	3.9	14	2.83	18.5	0.5	2.83	0.43	2.87	0.62	1.91	0.3	1.96	0.31	4.6
447.83	452.76	HC22-2535	36.85	30.33	6.52	9.71	7.7	13.8	1.6	6.2	1.03	3.7	0.08	0.98	0.13	0.75	0.14	0.35	0.05	0.29	0.05	3
452.76	457.68	HC22-2536	403.43	326.9	76.53	104.5	73.4	159.5	17.3	64.3	12.4	42.9	0.96	10.8	1.54	8.96	1.69	4.59	0.61	3.91	0.57	3.7
457.68	462.60	HC22-2537	125.73	93.58	32.15	26.11	24	47.2	4.28	15	3.1	19.6	0.6	3.12	0.5	3.23	0.71	1.95	0.29	1.86	0.29	4.1
462.60	467.52	HC22-2538	242.57	201.12	41.45	57.3	49.9	98.9	10.3	35.9	6.12	24.2	0.96	5.15	0.78	4.2	0.88	2.42	0.35	2.17	0.34	4.3
467.52	472.44	HC22-2539	1214.94	1045.3	169.64	343.93	231	496	59.3	221	38	86.8	3.04	30.8	4.03	21.6	3.8	9.61	1.22	7.57	1.17	8
472.44	477.36	HC22-2540	89.09	61.65	27.44	20.77	12.2	31.7	3.17	11.9	2.68	16.9	0.34	2.69	0.41	2.61	0.57	1.74	0.24	1.67	0.27	4.7
477.36	482.28	HC22-2541	97.04	70.34	26.7	22.16	15.2	36.1	3.53	12.8	2.71	16.3	0.42	2.68	0.41	2.71	0.57	1.66	0.23	1.48	0.24	4.1
482.28	487.20	HC22-2542	76.67	53.76	22.91	17.76	10.8	27.9	2.67	10.2	2.19	13.8	0.38	2.27	0.37	2.33	0.47	1.42	0.23	1.4	0.24	4.4
487.20	492.13	HC22-2543	57.08	36.39	20.69	13.71	6.3	18.8	1.92	7.6	1.77	12.4	0.33	1.89	0.32	2.1	0.47	1.34	0.21	1.39	0.24	4.1

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM021	4,633,528.28	475,477.09	5,708.65	492.13	RC

From Depth	To Depth	Sample No.					Light REE					Heavy REE											
			TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
0.00	4.92	HC22-2544	817.74	685.2	132.54	241.5	141.5	320	40	156.5	27.2	68.1	5.98	21.4	2.75	15.05	2.84	7.38	1.03	6.83	1.18	17.5
4.92	9.84	HC22-2545	1007.6	790.2	217.4	333.34	141	345	49.8	214	40.4	111	10.1	34.2	4.44	24.7	4.75	12.5	1.77	11.85	2.09	39.8
9.84	14.76	HC22-2546	999.85	783	216.85	328.42	139.5	344	49.1	210	40.4	111	10.5	33.4	4.42	24.5	4.6	12.6	1.75	11.95	2.13	44
14.76	19.69	HC22-2547	919.05	723.7	195.35	296.81	125	328	45.2	189.5	36	100.5	9.21	29.7	3.81	22.3	4.17	11.4	1.59	10.85	1.82	36.6
19.69	24.61	HC22-2548	979.76	780.2	199.56	308.44	148	351	48	195.5	37.7	101	9.79	31.4	4.14	23.1	4.3	11.55	1.59	10.85	1.84	35.7
24.61	29.53	HC22-2549	954.54	779	175.54	282.09	163.5	357	45.7	179.5	33.3	87.3	11.9	27.7	3.64	19.95	3.73	9.9	1.29	8.71	1.42	12.3
29.53	34.45	HC22-2551	650.82	514.5	136.32	193.24	100	239	30.6	121.5	23.4	71	8.07	19.9	2.69	15.05	2.82	7.72	1.08	6.84	1.15	6.8
34.45	39.37	HC22-2552	3132.12	2886.1	246.02	868	668	1385	169	585	79.1	116.5	11.6	50.9	5.8	29.1	5.11	12.65	1.63	10.9	1.83	8.2
39.37	44.29	HC22-2553	3897.44	3600.1	297.34	1085.57	828	1730	204	739	99.1	136.5	13.75	64.9	7.27	36.2	6.32	15.25	1.97	12.95	2.23	8.1
44.29	49.21	HC22-2554	3103.95	2847	256.95	863	651	1370	163	583	80	120.5	11.75	53	6.1	30.9	5.34	13.4	1.8	12.1	2.06	7.3
49.21	54.13	HC22-2555	3614.51	3319.3	295.21	1020.23	758	1585	192.5	689	94.8	136	13.15	63.9	7.23	36.7	6.19	14.95	1.93	13	2.16	6.9
54.13	59.06	HC22-2556	3194.93	2919.7	275.23	895.25	664	1400	170	601	84.7	130.5	11.95	57.3	6.55	33	5.75	14	1.87	12.25	2.06	6.5
59.06	63.98	HC22-2557	3604.42	3303.8	300.62	1006.47	761	1580	189	678	95.8	141	12.7	63.6	7.17	36.5	6.25	15.3	2.05	13.7	2.35	5.9
63.98	68.90	HC22-2558	3653.18	3362.1	291.08	1019.81	770	1615	192.5	689	95.6	134	13.3	62.6	7.11	35.6	6.1	14.95	1.95	13.25	2.22	7.8
68.90	73.82	HC22-2559	3631.75	3345.9	285.85	1021.08	767	1600	193.5	691	94.4	132	12.75	61.4	6.98	35.2	5.89	14.55	1.92	13	2.16	6.1
73.82	78.74	HC22-2560	3775.02	3483.9	291.12	1053.07	798	1675	202	712	96.9	135	13.3	62.8	7.17	35	6.03	14.9	1.93	12.8	2.19	6.8
78.74	83.66	HC22-2561	3529.35	3254.8	274.55	984.3	751	1560	187	667	89.8	126	13.15	59.1	6.8	33.7	5.64	14.2	1.86	12.1	2	5.3
83.66	88.58	HC22-2562	3428.65	3145.6	283.05	959.13	727	1500	182	648	88.6	135.5	12.7	57.3	6.63	33.9	5.84	14.7	1.92	12.5	2.06	6.5
88.58	93.50	HC22-2563	3937.61	3642.6	295.01	1084.22	841	1760	206	737	98.6	135.5	14.4	64.4	7.22	35.4	6.14	15	1.97	12.85	2.13	7
93.50	98.43	HC22-2564	3281.24	3022.4	258.84	901.71	698	1460	176.5	605	82.9	120.5	12.45	54.4	6.21	31.1	5.54	13.5	1.8	11.4	1.94	6.7
98.43	103.35	HC22-2565	1925.29	1690	235.29	556.95	358	808	98.4	367	58.6	116.5	12.3	42	5.15	27.8	4.93	12.65	1.62	10.6	1.74	8.1
103.35	108.27	HC22-2566	1092.35	878	214.35	346.38	163	398	53.9	221	42.1	108	12.2	34.6	4.58	24.8	4.58	11.75	1.6	10.5	1.74	13.8
108.27	113.19	HC22-2567	2347.35	1997.5	349.85	714.81	403	928	123	465	78.5	177	13.25	60.4	7.61	40.7	7.62	19.9	2.75	17.6	3.02	16.8
113.19	118.11	HC22-2568	1436.05	1133.6	302.45	464.08	210	503	70.4	293	57.2	155	10.35	50.2	6.58	36.9	6.69	17.25	2.28	14.75	2.45	23.2
118.11	123.03	HC22-2570	1726.67	1383	343.67	559.16	238	635	78.9	357	74.1	179	10.4	56.7	7.66	41.5	7.59	19.45	2.55	16.25	2.57	30.3
123.03	127.95	HC22-2571	1883.45	1574	309.45	572.67	304	741	87.5	370	71.5	160	9.61	51.6	6.87	36.8	7.02	17.8	2.39	14.9	2.46	33.6
127.95	132.87	HC22-2572	2031.57	1725.5	306.07	607.06	342	819	93.7	395	75.8	161.5	8.13	51.2	6.86	35.7	6.7	17.1	2.29	14.15	2.44	41.5
132.87	137.80	HC22-2573	1523.13	1225.5	297.63	474.9	221	573	68.3	301	62.2	151.5	9.38	49.6	6.8	36.6	6.88	17.35	2.36	14.65	2.51	38.5
137.80	142.72	HC22-2574	1729.8	1499.5	230.3	484.48	320	726	78.9	318	56.6	119	9.54	38.1	5.08	25.9	4.9	12.85	1.78	11.15	2	21.1

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM021	4,633,528.28	475,477.09	5,708.65	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
142.72	147.64	HC22-2575	872.11	708.9	163.21	249.36	140.5	341	37.7	158	31.7	87.8	5.32	24.2	3.36	18.6	3.5	9.23	1.4	8.35	1.45	10.1
147.64	152.56	HC22-2576	1136.64	930.7	205.94	329.54	185.5	444	49.7	209	42.5	106	8.61	32.4	4.44	23.9	4.57	11.95	1.65	10.6	1.82	18.8
152.56	157.48	HC22-2577	1252.79	1023	229.79	367.48	204	484	55.6	233	46.4	116	9.17	37.5	5.18	27.3	5.24	13.85	1.9	11.7	1.95	23.8
157.48	162.40	HC22-2578	1410.87	1121.3	289.57	448.09	194	521	63.3	283	60	148.5	10.05	47.3	6.59	35.2	6.31	16.8	2.2	14.25	2.37	41.2
162.40	167.32	HC22-2579	1363.45	1074.5	288.95	444.04	180.5	492	61.3	279	61.7	148.5	9.89	47.8	6.74	35.3	6.59	16.2	2.18	13.6	2.15	37.9
167.32	172.24	HC22-2580	1568.65	1276.3	292.35	482.97	241	594	71.2	308	62.1	150	10.3	48.9	6.57	35.1	6.49	16.7	2.26	13.75	2.28	32.7
172.24	177.17	HC22-2581	1870.94	1605.8	265.14	537.06	336	770	85.9	350	63.9	133.5	11.25	45.3	5.86	31.4	5.78	15.1	2.08	12.75	2.12	35.9
177.17	182.09	HC22-2582	1336.23	1105.4	230.83	399.7	213	525	60.1	256	51.3	117.5	10.15	37.6	5.1	27.2	5.12	13.25	1.75	11.2	1.96	27.5
182.09	187.01	HC22-2583	985.54	797.6	187.94	294.9	152.5	376	43.2	186.5	39.4	95.7	10.55	29.6	4	21.8	4.07	10.4	1.45	8.99	1.38	12.2
187.01	191.93	HC22-2584	1456.92	1243.7	213.22	414.23	259	600	65.9	270	48.8	106.5	12	36.1	4.73	24.8	4.6	11.85	1.57	9.62	1.45	11.6
191.93	196.85	HC22-2585	1485.74	1255.9	229.84	430.62	260	598	66.7	280	51.2	114.5	11.7	39.4	5.32	27.4	5.12	12.85	1.69	10.25	1.61	13.3
196.85	201.77	HC22-2586	1836.5	1529.2	307.3	540.89	303	729	82.6	347	67.6	159	9.98	50.9	6.79	36.9	6.89	17.65	2.34	14.4	2.45	31
201.77	206.69	HC22-2587	1406.8	1180.9	225.9	409.06	236	568	63	264	49.9	112	11.4	38	5.06	27.1	5.12	12.95	1.67	10.85	1.75	18
206.69	211.61	HC22-2588	1313.62	1116.1	197.52	374.31	232	538	58.6	243	44.5	95.2	12.25	33.6	4.51	23.7	4.4	11.15	1.51	9.64	1.56	14.2
211.61	216.54	HC22-2590	1118.96	921.9	197.06	320.09	186	443	48.4	204	40.5	100.5	10.75	30.1	4.19	23	4.44	11.5	1.52	9.5	1.56	11
216.54	221.46	HC22-2591	1126.76	928.1	198.66	326.9	185.5	443	49.6	209	41	101	10.6	31	4.3	23	4.37	11.45	1.62	9.68	1.64	13.7
221.46	226.38	HC22-2592	1213.71	996.9	216.81	360.99	195.5	470	54.1	232	45.3	109.5	10.7	35.6	4.69	24.9	4.78	12.45	1.64	10.7	1.85	14.2
226.38	231.30	HC22-2593	3458.68	3186.4	272.28	910.82	789	1525	160.5	619	92.9	130	11.45	56.6	6.62	31.8	5.67	14.5	1.87	11.7	2.07	10.4
231.30	236.22	HC22-2594	2936.18	2669.5	266.68	780.76	651	1275	134	527	82.5	129	11.05	52.7	6.26	31	5.65	14.4	1.88	12.6	2.14	9
236.22	241.14	HC22-2595	3430.95	3143.5	287.45	910.56	780	1495	159	614	95.5	132	12.75	61.1	7.36	34.7	6.07	15.6	2.09	13.45	2.33	9.9
241.14	246.06	HC22-2596	2441.02	2213.6	227.42	649.62	536	1060	111.5	435	71.1	111	10.85	43.5	5.32	26.7	4.71	11.9	1.59	10.15	1.7	8.4
246.06	250.98	HC22-2597	1219.69	1029.3	190.39	356.29	211	488	54.6	230	45.7	98.1	10.15	30.7	4.09	21.9	3.95	10.1	1.38	8.62	1.4	7.2
250.98	255.91	HC22-2598	1374.84	1166.2	208.64	394.74	244	557	61.6	254	49.6	101.5	11.8	36.4	4.74	24.8	4.51	11.9	1.55	9.82	1.62	7.1
255.91	260.83	HC22-2599	4842.57	4519	323.57	1281.73	1125	2160	229	879	126	147.5	13.5	73.1	8.33	39.4	6.63	16.3	2.18	14.25	2.38	9.7
260.83	265.75	HC22-2600	2495.92	2261.1	234.82	669.03	555	1070	114.5	449	72.6	113	11.85	45.3	5.43	27.5	4.95	12.45	1.69	10.8	1.85	8
265.75	270.67	HC22-2601	1438.63	1221.8	216.83	412.2	251	589	64.2	267	50.6	107	11.8	36.8	4.9	25.5	4.62	12.1	1.69	10.65	1.77	7.4
270.67	275.59	HC22-2602	2398.5	2146.8	251.7	647.01	515	1020	108.5	431	72.3	122.5	12.15	47.6	5.91	29.3	5.26	13.4	1.82	11.8	1.96	7.9
275.59	280.51	HC22-2603	1899.14	1652	247.14	533.51	354	800	86.7	349	62.3	118	13	45.2	5.81	29.7	5.36	13.8	1.88	12.25	2.14	7.8
280.51	285.43	HC22-2604	1186.32	984.7	201.62	342.65	199	471	52.8	220	41.9	100	12.25	32.8	4.35	23.6	4.38	11.25	1.55	9.75	1.69	9.1

Rare Earth Element Summary

Drill Hole	***Northing***	***Easting***	***Collar***	***Total Depth***	***Hole Type***
HC22-RM021	*4,633,528.28*	*475,477.09*	*5,708.65*	*492.13*	*RC*

From Depth	***To Depth***	***Sample No.***					***Light REE***					***Heavy REE***										
			TREE	***LREE***	***HREE***	***MREE***	***La***	***Ce***	***Pr***	***Nd***	***Sm***	***Y***	***Eu***	***Gd***	***Tb***	***Dy***	***Ho***	***Er***	***Tm***	***Yb***	***Lu***	***Sc***
285.43	290.35	HC22-2605	1139.23	944.3	194.93	332.6	190	448	50.3	214	42	95.4	12.25	32.4	4.2	22.1	4.21	11.35	1.49	9.89	1.64	9
290.35	295.28	HC22-2606	1277.21	1075.4	201.81	391.49	229	484	58.9	258	45.5	95.6	13.05	34.6	4.29	24.8	4.29	11.1	1.58	10.8	1.7	5.2
295.28	300.20	HC22-2607	1225	1028.6	196.4	372.68	221	463	55.9	245	43.7	93.3	13.25	33.2	4.08	24	4.15	11.05	1.58	10.05	1.74	5.7
300.20	305.12	HC22-2608	1458.73	1253.2	205.53	437.3	275	570	67.9	290	50.3	97.2	12.4	37.2	4.4	24.7	4.19	11.1	1.72	10.85	1.77	5.8
305.12	310.04	HC22-2609	2209.34	1974	235.34	635.58	455	917	105	431	66	109.5	13.25	46	5.38	28.2	4.87	12.35	1.88	12.05	1.86	4.3
310.04	314.96	HC22-2611	2082.97	1865.9	217.07	598.61	431	867	99.4	405	63.5	102.5	12.25	41.9	4.91	25.8	4.54	11.05	1.7	10.6	1.82	3.5
314.96	319.88	HC22-2612	1808.81	1588.7	220.11	533.58	358	728	84.3	359	59.4	104.5	12.4	41.2	4.88	26	4.56	11.85	1.76	11.15	1.81	5.2
319.88	324.80	HC22-2613	1832.18	1598.8	233.38	544.34	352	736	86.1	363	61.7	110	12.9	43.3	5.34	28.2	5.14	12.6	1.91	12.05	1.94	6
324.80	329.72	HC22-2614	2240.73	2003	237.73	640.62	466	931	106	434	66	112	12.4	45.6	5.52	29.1	5.03	12.6	1.94	11.6	1.94	4.9
329.72	334.65	HC22-2615	2245.35	2010.3	235.05	636.67	466	941	106	430	67.3	111	12.2	45.6	5.27	28.1	4.89	12.3	1.86	11.95	1.88	5
334.65	339.57	HC22-2616	2238.23	2025.6	212.63	631.9	478	946	105.5	431	65.1	96.7	12.55	43.4	4.9	25.4	4.32	11.4	1.58	10.6	1.78	5.1
339.57	344.49	HC22-2617	2300.38	2098.4	201.98	636.61	496	994	108.5	437	62.9	93	12	40.6	4.61	23.6	4.15	10.15	1.54	10.55	1.78	5.3
344.49	349.41	HC22-2618	4319.27	4000	319.27	1195.97	1000	1850	209	829	112	141.5	17.75	70.2	7.47	38.5	6.53	16.1	2.37	16.2	2.65	7.7
349.41	354.33	HC22-2619	2591.54	2377.5	214.04	712.17	585	1110	123.5	492	67	98.4	12.25	44	4.87	24.8	4.3	11.4	1.66	10.6	1.76	5.4
354.33	359.25	HC22-2620	2243.53	2043.7	199.83	620.81	486	965	107	425	60.7	94.3	10.25	39	4.51	23.6	4.09	10.3	1.58	10.5	1.7	5
359.25	364.17	HC22-2621	3060.02	2808.9	251.12	849.86	690	1305	146	586	81.9	116.5	12.05	52.2	5.86	30.1	5.17	13.1	1.88	12.3	1.96	7.7
364.17	369.09	HC22-2622	2675.76	2434	241.76	743.69	590	1135	126.5	510	72.5	111.5	12.9	48.9	5.49	29.2	5.33	12.45	1.84	12.15	2	6.9
369.09	374.02	HC22-2623	2269.51	2042	227.51	643.05	477	955	108	436	66	105	12.95	45.5	5.25	27.8	4.73	11.55	1.76	11.15	1.82	4.3
374.02	378.94	HC22-2624	2171.69	1944.1	227.59	622.02	449	906	102.5	422	64.6	105	12	45.1	5.12	27.8	4.91	12.3	1.8	11.7	1.86	6.2
378.94	383.86	HC22-2625	2082.58	1870.2	212.38	592.9	437	870	97.9	404	61.3	101	11.45	40.1	4.7	25	4.47	11.5	1.66	10.75	1.75	4.4
383.86	388.78	HC22-2626	2425.77	2200	225.77	680.99	517	1035	115.5	462	70.5	105	11.5	44.9	5.09	27.9	4.76	11.8	1.69	11.35	1.78	4.6
388.78	393.70	HC22-2627	1870	1645.2	224.8	541.39	372	764	87.6	364	57.6	107	12.1	41.4	4.99	27.2	4.74	12.4	1.68	11.4	1.89	5.1
393.70	398.62	HC22-2628	1124.42	906.4	218.02	357.51	185.5	394	51	230	45.9	107.5	11.6	35.7	4.61	26	4.76	12.3	1.82	11.85	1.88	7
398.62	403.54	HC22-2630	879.7	697.9	181.8	280.15	140	302	41.1	180	34.8	93.3	10.25	28.4	3.75	20.5	3.81	9.98	1.28	9.19	1.34	7.2
403.54	408.46	HC22-2631	1523.85	1297.2	226.65	459.81	289	580	74.7	303	50.5	111	13.15	39.7	5.01	26.6	4.84	12	1.59	11	1.76	5.2
408.46	413.39	HC22-2632	1879.67	1648.9	230.77	550.18	378	753	94.1	368	55.8	113.5	12.15	41.7	5.18	27.1	4.85	12	1.52	11.1	1.67	7.6
413.39	418.31	HC22-2633	2063.3	1813.8	249.5	603.92	418	827	103.5	405	60.3	119	13.6	47.4	5.62	29.5	5.24	13.05	1.78	12.3	2.01	6.3
418.31	423.23	HC22-2634	2084.92	1841	243.92	609.44	428	838	103.5	408	63.5	118.5	12.3	45	5.64	28.8	5.1	13.3	1.65	11.8	1.83	7.6
423.23	428.15	HC22-2635	2056.98	1812.5	244.48	596.36	419	831	102	400	60.5	118.5	13	45.6	5.46	28.4	5.1	13.35	1.78	11.5	1.79	5.5

Rare Earth Element Summary

Drill Hole	Northing	Easting	Collar	Total Depth	Hole Type
HC22-RM021	*4,633,528.28*	*475,477.09*	*5,708.65*	*492.13*	*RC*

							Light REE					Heavy REE										
From Depth	To Depth	Sample No.	TREE	LREE	HREE	MREE	La	Ce	Pr	Nd	Sm	Y	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Sc
428.15	433.07	HC22-2636	2105.95	1874	231.95	602.9	440	863	104.5	403	63.5	112	12.35	44	5.3	26.6	4.79	12.4	1.62	11	1.89	7.4
433.07	437.99	HC22-2637	2028.7	1786.5	242.2	594.66	411	814	101.5	400	60	118.5	12.85	44.6	5.36	27.8	5.13	13.1	1.68	11.25	1.93	5.9
437.99	442.91	HC22-2638	1731.9	1489.6	242.3	516.14	333	673	84.4	342	57.2	120.5	13.45	42.8	5.34	27.2	5.22	13.15	1.62	11.2	1.82	5.9
442.91	447.83	HC22-2639	1404.34	1171.5	232.84	429.52	251	523	67.4	281	49.1	116.5	12.75	39.4	4.92	27.1	5.04	12.25	1.66	11.5	1.72	5.1
447.83	452.76	HC22-2640	1224.85	979.5	245.35	384.86	198.5	429	58.5	248	45.5	124.5	12.25	40.4	5.26	27.6	5.4	13.7	1.78	12.45	2.01	8.1
452.76	457.68	HC22-2641	1259.8	1016	243.8	393.15	209	447	60.4	252	47.6	124	12.65	39.6	5.15	28	5.16	13.45	1.74	12.05	2	5.4
457.68	462.60	HC22-2642	1218.52	925.2	293.32	399.06	171	395	55.9	252	51.3	153.5	11.95	45	6.06	33.8	6.48	16.9	2.13	15.1	2.4	4.7
462.60	467.52	HC22-2643	5985.54	5494	491.54	1655.9	1310	2600	298	1130	156	233	15.25	106.5	12.6	59.3	10.45	26.4	3.23	21.5	3.31	8.9
467.52	472.44	HC22-2644	1265.26	1035.8	229.46	393.29	218	456	60.6	255	46.2	114	12.45	39	5.09	26.4	4.84	12.65	1.66	11.5	1.87	6.4
472.44	477.36	HC22-2645	1337.82	1106.2	231.62	413.63	235	489	63.4	272	46.8	117.5	12.25	38.7	4.83	26.6	4.88	12.25	1.69	11.1	1.82	6.1
477.36	482.28	HC22-2646	2601	2349.3	251.7	740.31	544	1100	130	504	71.3	120.5	13.1	49	5.81	29.2	5.43	13.25	1.72	11.8	1.89	7.2
482.28	487.20	HC22-2647	1932.06	1697.6	234.46	565.78	389	775	97	378	58.6	112	13.6	44.1	5.28	26.9	4.81	12.65	1.62	11.65	1.85	8
487.20	492.13	HC22-2648	1940.3	1710.5	229.8	574.82	389	779	97.8	386	58.7	112	11.85	42.5	5.32	27	4.89	12.25	1.59	10.7	1.7	6

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM022	4,631,816.11	474,655.78	5,866.27	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*											
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
0.00	4.92	HC22-2650	913.28	760.1	153.18	264.1	171.5	345	43.6	172.5	27.5	79.6	7.07	24	3.2	17.3	3.23	8.74	1.04	7.8	1.2	7.7
4.92	9.84	HC22-2651	398.42	302.1	96.32	119.22	63.2	132	17.35	74.3	15.25	50.3	6.62	12.6	1.82	10.5	2.08	5.82	0.8	5.07	0.71	8.9
9.84	14.76	HC22-2652	493.09	370.6	122.49	145.07	77	164.5	21.8	88.5	18.8	66.8	5.07	15.75	2.27	13.7	2.79	7.41	0.99	6.75	0.96	9.9
14.76	19.69	HC22-2653	787.8	617.3	170.5	226.14	138	276	35.2	140.5	27.6	93.8	3.4	25.5	3.59	19.25	3.7	10.05	1.22	8.8	1.19	9.4
19.69	24.61	HC22-2654	692.18	539.7	152.48	198.66	120	242	30.8	122.5	24.4	84.7	3.19	21.2	3.11	17.85	3.53	8.56	1.17	8.01	1.16	8.5
24.61	29.53	HC22-2655	1085.08	897.5	187.58	307.76	206	409	50.3	198.5	33.7	102	3.46	29.4	3.96	21.3	4.23	11.1	1.41	9.38	1.34	9.3
29.53	34.45	HC22-2656	700.59	555	145.59	198.34	126	250	31.7	122.5	24.8	78.9	4.74	21.2	2.99	16.35	3.27	8.53	1.1	7.43	1.08	8.4
34.45	39.37	HC22-2657	429.37	324.3	105.07	120.23	73.3	143.5	18.85	73.8	14.85	56.8	6.28	13.65	1.93	10.8	2.26	5.83	0.85	5.82	0.85	10.2
39.37	44.29	HC22-2658	359.35	272.2	87.15	102.38	60.1	120	15.65	63.7	12.75	45.2	7.37	10.85	1.6	8.68	1.87	5.07	0.67	5.06	0.78	12.1
44.29	49.21	HC22-2659	240.85	172.83	68.02	73.04	35.5	72.3	9.93	46.2	8.9	32.9	7.49	9.4	1.17	6.84	1.34	3.83	0.51	3.91	0.63	12.2
49.21	54.13	HC22-2660	360.21	271.6	88.61	104.12	59.4	119	15.4	65.9	11.9	46.8	7.06	10.8	1.53	9.39	1.85	4.87	0.67	4.87	0.77	12.7
54.13	59.06	HC22-2661	402.63	311.9	90.73	110.06	68.9	144.5	17.65	66.9	13.95	49.1	4.91	11.25	1.65	9.91	1.94	5.39	0.76	4.99	0.83	11.5
59.06	63.98	HC22-2662	353.47	275.65	77.82	100.96	59.2	125.5	15.75	61.9	13.3	39.1	6.53	10.35	1.45	8.56	1.61	4.62	0.66	4.23	0.71	12.2
63.98	68.90	HC22-2663	335.02	249.75	85.27	96.32	52.5	112	14.2	58.8	12.25	43.5	6.25	11.2	1.72	9.35	1.93	5.27	0.73	4.59	0.73	13.6
68.90	73.82	HC22-2664	590.22	491.45	98.77	165.17	110	229	27.5	105.5	19.45	49.2	7.1	15.05	2.02	10.7	2.13	5.6	0.82	5.24	0.91	14.2
73.82	78.74	HC22-2665	228.42	163.23	65.19	67.54	32.6	70.7	9.39	41	9.54	32.1	7.39	8.07	1.12	6.49	1.33	3.61	0.52	3.86	0.7	15.9
78.74	83.66	HC22-2666	216.08	158.15	57.93	62.3	33.2	69.7	8.75	38.6	7.9	27.8	6.85	7.22	1.01	6.04	1.23	3.3	0.5	3.33	0.65	15
83.66	88.58	HC22-2667	334.41	254.05	80.36	94.17	53.9	116	14.4	57.6	12.15	43	4.55	10.25	1.53	8.49	1.78	5.37	0.67	4.06	0.66	19.4
88.58	93.50	HC22-2668	301.03	217.5	83.53	85.63	45.2	96.8	12.5	51.8	11.2	43	7.05	10.45	1.48	8.65	1.71	5.02	0.71	4.69	0.77	15.4
93.50	98.43	HC22-2669	239.18	171.38	67.8	69.46	34.6	75.5	9.96	41.7	9.62	33	7.63	8.45	1.22	6.96	1.34	3.94	0.59	3.99	0.68	15.8
98.43	103.35	HC22-2671	229.02	160.34	68.68	65.83	32.4	70.3	9.17	39.4	9.07	34.5	6.81	8.32	1.18	7.01	1.43	4.03	0.59	4.04	0.77	14.8
103.35	108.27	HC22-2672	241.31	173.93	67.38	70.97	35.5	75.7	10.25	42.9	9.58	32.9	7.3	8.43	1.2	7.04	1.4	3.89	0.57	3.99	0.66	14.6
108.27	113.19	HC22-2673	279.56	203.1	76.46	81.34	41.3	89.8	11.55	49.7	10.75	38.3	7.65	9.41	1.4	7.94	1.55	4.41	0.65	4.39	0.76	16.3
113.19	118.11	HC22-2674	329.34	281.9	47.44	86.11	65.8	136	15.15	54.9	10.05	24.7	2.7	6.92	0.93	5.08	0.95	2.72	0.41	2.62	0.41	8.7
118.11	123.03	HC22-2675	474.73	376.8	97.93	130.32	83.5	175.5	20.8	81.8	15.2	50.9	6.82	12.75	1.92	10.6	2.01	5.7	0.8	5.49	0.94	14.2
123.03	127.95	HC22-2676	436.82	340.95	95.87	122.18	75.3	155.5	19.1	76.1	14.95	49	7.15	12.65	1.78	10.25	2	5.99	0.8	5.36	0.89	15.7
127.95	132.87	HC22-2677	281.68	210.95	70.73	83.82	43.2	92.6	12	52	11.15	34.8	7.27	9.26	1.3	7.37	1.46	3.93	0.6	4.04	0.7	14.7
132.87	137.80	HC22-2678	225.26	164.41	60.85	66.45	33.7	71.9	9.5	40.2	9.11	28.9	7.42	7.73	1.04	6.6	1.23	3.29	0.5	3.49	0.65	14.8
137.80	142.72	HC22-2679	236.22	173.45	62.77	71.64	34.6	74.8	10.1	43.8	10.15	30.1	7.42	8.02	1.18	6.41	1.27	3.62	0.55	3.56	0.64	15.2

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM022	*4,631,816.11*	*474,655.78*	*5,866.27*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
142.72	147.64	HC22-2680	232.87	169.69	63.18	70.75	33.9	73	9.97	43.6	9.22	30.2	7.46	8.22	1.15	6.81	1.25	3.5	0.53	3.39	0.67	14.9
147.64	152.56	HC22-2681	241.87	178.7	63.17	71.55	35.8	79	10.1	43.6	10.2	29.9	7.54	8.1	1.14	6.51	1.32	3.91	0.54	3.58	0.63	14.2
152.56	157.48	HC22-2682	279.78	209.25	70.53	83.23	42.9	91.6	12.25	51.4	11.1	34.6	7.44	9.39	1.33	7.15	1.4	4.29	0.6	3.67	0.66	15.1
157.48	162.40	HC22-2683	414.95	329.25	85.7	120.11	70.3	150	18.4	75.6	14.95	42.5	7.45	11.85	1.65	9.51	1.81	4.99	0.7	4.46	0.78	13.5
162.40	167.32	HC22-2684	251.93	186.57	65.36	73.9	38.3	82.4	10.6	45.4	9.87	31.6	7.2	8.23	1.25	6.78	1.34	4.2	0.52	3.62	0.62	16.1
167.32	172.24	HC22-2685	272.91	209.01	63.9	77.62	44.7	94.6	12.05	48.1	9.56	31.3	6.67	8.4	1.18	6.73	1.31	3.68	0.52	3.52	0.59	13.5
172.24	177.17	HC22-2686	348.18	266.05	82.13	99.34	56	121	15.1	61	12.95	41.4	7.12	10.7	1.6	8.69	1.71	4.84	0.67	4.64	0.76	15.5
177.17	182.09	HC22-2687	608.72	486.2	122.52	173.55	103	226	27.2	108.5	21.5	64.6	5.69	17	2.45	13.9	2.77	7.5	1.04	6.47	1.1	11
182.09	187.01	HC22-2688	403.32	309.3	94.02	118.27	64.3	139	17.65	72.9	15.45	46.8	7.74	12.9	1.82	10.45	1.96	5.68	0.77	5.02	0.88	15.2
187.01	191.93	HC22-2690	705.63	578.7	126.93	200.19	125.5	271	31.8	125.5	24.9	64.1	7.26	19.2	2.74	15.25	2.76	7.52	1.04	6.18	0.88	12.1
191.93	196.85	HC22-2691	891.59	758	133.59	249.34	164	363	41.8	160.5	28.7	67.5	6.9	21.8	2.89	15.45	2.87	7.77	1.06	6.27	1.08	14
196.85	201.77	HC22-2692	963.02	842.2	120.82	262.94	183	413	44.7	173.5	28	57.8	8.01	21.1	2.69	14.05	2.6	6.59	0.94	5.97	1.07	15
201.77	206.69	HC22-2693	314.99	231.05	83.94	92.88	45.1	103.5	13.6	56.4	12.45	43.9	6	10.45	1.53	8.9	1.66	5.05	0.75	4.86	0.84	12.1
206.69	211.61	HC22-2694	754.36	616.4	137.96	204.06	139.5	291	34	128.5	23.4	74.8	5.81	19.05	2.81	15.35	3.01	7.85	1.14	7.09	1.05	14
211.61	216.54	HC22-2695	667.39	569.2	98.19	190.82	125.5	266	31.8	124.5	21.4	46.8	7.72	16.35	2.12	11	2.07	5.62	0.77	4.88	0.86	12.9
216.54	221.46	HC22-2696	514.1	420	94.1	147.69	91	193.5	23.1	95.2	17.2	47.4	6.4	13.7	1.89	10.3	2	5.84	0.79	4.88	0.9	11.3
221.46	226.38	HC22-2697	1523.46	1350.9	172.56	420.91	291	663	70.2	278	48.7	87.1	7.33	30.4	4.01	20	3.71	9.43	1.23	8.06	1.29	17.4
226.38	231.30	HC22-2698	477.78	398.55	79.23	139.87	86.6	182	21.4	90.7	17.85	39.2	7.03	11.75	1.54	8.38	1.62	4.32	0.61	4.11	0.67	15.2
231.30	236.22	HC22-2699	250.71	188.2	62.51	75.11	38.7	82.1	10.3	46.4	10.7	31.9	6.26	7.56	1.2	6.51	1.25	3.48	0.5	3.25	0.6	14.6
236.22	241.14	HC22-2700	251.73	187.85	63.88	76.69	37.4	81.7	10.35	47.2	11.2	33.5	4.93	8.17	1.22	6.72	1.3	3.63	0.52	3.28	0.61	18.6
241.14	246.06	HC22-2701	274.33	211.1	63.23	84.32	42.1	93.1	11.7	52.5	11.7	34.1	3.46	8.86	1.24	7.18	1.3	3.4	0.49	2.82	0.38	34.6
246.06	250.98	HC22-2702	356.88	281.65	75.23	105.28	59.2	126.5	15.45	66	14.5	38.3	6.19	10.6	1.52	7.81	1.64	4.18	0.6	3.82	0.57	17.2
250.98	255.91	HC22-2703	301.01	231.7	69.31	89.7	48	102.5	12.7	56.4	12.1	35	6.71	9.3	1.35	7.15	1.39	3.87	0.5	3.37	0.67	15.3
255.91	260.83	HC22-2704	337.08	266.85	70.23	98.41	56.8	120	14.75	62	13.3	35.3	6.81	9.7	1.34	7.02	1.36	3.7	0.54	3.86	0.6	16.1
260.83	265.75	HC22-2705	606.56	494.3	112.26	182.54	102.5	224	27.5	117	23.3	57.7	7.38	16.75	2.39	12.35	2.39	6.27	0.86	5.29	0.88	16
265.75	270.67	HC22-2706	262.08	189.55	72.53	78.25	37.8	82.3	10.6	48.2	10.65	37.6	6.31	9.05	1.3	7.5	1.52	4.09	0.56	3.85	0.75	16.5
270.67	275.59	HC22-2707	3010.84	2684	326.84	857.27	600	1275	140	569	100	160	10.5	66.2	8.27	40	7.27	17.15	2.19	13	2.26	13.2
275.59	280.51	HC22-2708	6236.61	5604	632.61	1843.7	1230	2630	300	1235	209	296	16.7	141.5	17.1	82.6	14.4	33.2	3.96	23.5	3.65	9.4
280.51	285.43	HC22-2710	4078.98	3551.5	527.48	1257.1	743	1630	191.5	828	159	261	14.75	107.5	13.3	65.3	11.7	27.4	3.36	19.95	3.22	8.9

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM022	4,631,816.11	474,655.78	5,866.27	492.13	RC

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	*Sc*
285.43	290.35	HC22-2711	4840.34	4254.5	585.84	1492.2	891	1960	232	988	183.5	284	15.25	124	15.6	73.1	13.1	31.5	3.73	22.2	3.36	8.6
290.35	295.28	HC22-2712	3879.48	3371.5	507.98	1211	692	1545	184.5	799	151	250	14.25	104	13.1	63.4	11.15	26.6	3.25	19.15	3.08	9.3
295.28	300.20	HC22-2713	5511.05	4955.5	555.55	1633.95	1085	2320	265	1095	190.5	269	14.55	120	14.75	68.7	12.3	28.5	3.53	20.8	3.42	8.5
300.20	305.12	HC22-2714	7347.9	6800	547.9	2108.15	1555	3220	376	1425	224	253	16.05	129.5	14.75	68.4	11.6	27.4	3.44	20.4	3.36	9.6
305.12	310.04	HC22-2715	5942.15	5371	571.15	1746.25	1170	2540	285	1175	201	277	15.45	123	14.65	70.6	12.3	29.6	3.56	21.6	3.39	8.1
310.04	314.96	HC22-2716	5625.52	5017	608.52	1669.85	1090	2350	268	1115	194	296	16.5	126.5	15.75	77.1	13.55	32.4	4.03	23.1	3.59	8.2
314.96	319.88	HC22-2717	6597.57	5909	688.57	1927.75	1315	2770	315	1290	219	340	17.75	141	17.85	85.9	15.3	36.4	4.44	26	3.93	9.1
319.88	324.80	HC22-2718	6859.08	6122	737.08	1969.7	1365	2900	324	1305	228	365	17.35	149	18.9	93.8	17	39.8	4.91	27.2	4.12	10.7
324.80	329.72	HC22-2719	6655.9	5966	689.9	1940.8	1320	2810	318	1295	223	337	16.95	144	17.6	87.2	15.6	37.1	4.41	26.1	3.94	9.3
329.72	334.65	HC22-2720	5539.44	5067.5	471.94	1568.4	1160	2410	267	1060	170.5	225	15.5	102.5	12.2	58.7	10.1	24.1	2.99	18	2.85	6
334.65	339.57	HC22-2721	8865.27	8093	772.27	2641.8	1770	3800	468	1775	280	366	20.2	173.5	20.7	98.1	16.85	40.3	4.86	27.4	4.36	11
339.57	344.49	HC22-2722	6602.8	5937	665.8	1936.7	1310	2790	313	1305	219	324	17.95	142.5	17.4	82.3	14.45	34.7	4.14	24.6	3.76	9.6
344.49	349.41	HC22-2723	5624.75	4988	636.75	1624.05	1120	2340	262	1075	191	318	16.3	124	16.35	79.7	14.3	35.1	4.3	24.9	3.8	7.6
349.41	354.33	HC22-2724	6681.03	5938	743.03	1931.65	1320	2800	312	1280	226	369	16.8	148.5	19.05	94.6	16.95	40.6	4.84	28.3	4.39	9.1
354.33	359.25	HC22-2725	7065.07	6398	667.07	2013.35	1455	3030	337	1355	221	329	17.55	137.5	17.15	83.2	14.7	34.6	4.28	25.1	3.99	9.4
359.25	364.17	HC22-2726	6640.19	5917	723.19	1935.05	1320	2770	314	1290	223	359	18.2	147	18.45	89.6	16.1	38.7	4.71	27.2	4.23	10.1
364.17	369.09	HC22-2727	7079.32	6417	662.32	2096.5	1420	3000	367	1400	230	314	19.75	146.5	17.4	82.1	14.5	35.1	4.16	25	3.81	11.8
369.09	374.02	HC22-2728	7994.06	7196	798.06	2333.2	1605	3380	411	1540	260	391	18.9	166	20.7	101.5	18.1	42.8	5.04	29.4	4.62	10
374.02	378.94	HC22-2729	2224.4	1944.4	280	627.02	431	927	101	413	72.4	143.5	9.3	48.2	6.52	34.1	6.06	15.95	2.03	12.35	1.99	16.6
378.94	383.86	HC22-2731	954.77	801.9	152.87	268.3	168	386	42	173	32.9	79.4	8.04	23.9	3.25	17.15	3.27	8.51	1.12	7.03	1.2	18
383.86	388.78	HC22-2732	436.37	345.35	91.02	129.46	72	155.5	18.95	82.2	16.7	45.7	7.42	13.1	1.82	9.79	1.86	5.12	0.67	4.78	0.76	15.8
388.78	393.70	HC22-2733	316.42	238.8	77.62	96.02	46.8	106	12.95	59.8	13.25	37.7	7.09	10.6	1.53	8.49	1.7	4.83	0.67	4.31	0.7	14
393.70	398.62	HC22-2734	301.73	230.3	71.43	91.09	46.5	102	12.3	57.2	12.3	34.6	6.49	9.89	1.38	7.91	1.6	4.23	0.62	3.98	0.73	15.2
398.62	403.54	HC22-2735	312.97	240.7	72.27	94.93	48.9	106.5	12.85	60.1	12.35	34.2	7.32	9.94	1.41	8.22	1.51	4.34	0.62	3.99	0.72	14
403.54	408.46	HC22-2736	251.24	184.75	66.49	76.45	36.8	80.1	10.25	47.2	10.4	31.5	7.26	8.71	1.31	7.29	1.43	3.86	0.59	3.89	0.65	14.6
408.46	413.39	HC22-2737	270.58	203.3	67.28	81.91	41.3	88.7	10.85	51.6	10.85	32.1	6.95	8.76	1.36	7.25	1.44	4.23	0.59	3.98	0.62	14.2
413.39	418.31	HC22-2738	267.76	199.45	68.31	81.29	39.3	87.7	10.65	51.2	10.6	33	6.89	9.15	1.33	7.51	1.49	3.82	0.58	3.86	0.68	15
418.31	423.23	HC22-2739	257.59	190.15	67.44	79.3	37.3	82	10.6	49.2	11.05	32.4	7.03	9.12	1.28	7.17	1.45	3.99	0.54	3.82	0.64	13.3
423.23	428.15	HC22-2740	229.91	167.42	62.49	70.94	33.1	71.4	9.17	43.6	10.15	29.1	7.06	8.33	1.19	6.83	1.27	3.81	0.5	3.7	0.7	14.8

Rare Earth Element Summary

Drill Hole	*Northing*	*Easting*	*Collar*	*Total Depth*	*Hole Type*
HC22-RM022	*4,631,816.11*	*474,655.78*	*5,866.27*	*492.13*	*RC*

From Depth	*To Depth*	*Sample No.*					*Light REE*					*Heavy REE*										*Sc*
			TREE	*LREE*	*HREE*	*MREE*	*La*	*Ce*	*Pr*	*Nd*	*Sm*	*Y*	*Eu*	*Gd*	*Tb*	*Dy*	*Ho*	*Er*	*Tm*	*Yb*	*Lu*	
428.15	433.07	HC22-2741	232.37	168	64.37	70.37	33.2	72.9	8.92	43.6	9.38	29.4	7.69	8.56	1.26	7.21	1.35	3.63	0.54	3.98	0.75	14.5
433.07	437.99	HC22-2742	254.42	189.05	65.37	78.06	37.3	82.1	10.35	48	11.3	31.1	7.28	8.34	1.2	7.21	1.31	3.87	0.58	3.83	0.65	15.5
437.99	442.91	HC22-2743	270.23	203.45	66.78	82.05	40.7	89.1	11	51.6	11.05	32	6.91	8.92	1.26	7.14	1.4	4.03	0.56	3.88	0.68	13.8
442.91	447.83	HC22-2744	238.09	174.52	63.57	72.36	34.5	75.7	9.37	44.6	10.35	29.6	7.18	8.64	1.17	6.87	1.4	3.68	0.51	3.86	0.66	14.2
447.83	452.76	HC22-2745	299.69	231.4	68.29	89.23	47.6	103.5	12.6	56.4	11.3	32.3	7.04	9.39	1.39	7.54	1.48	4.19	0.52	3.79	0.65	13.9
452.76	457.68	HC22-2746	281.73	210.85	70.88	85.47	42.2	92.6	11.25	53	11.8	33	7.57	9.74	1.53	7.89	1.55	4.15	0.64	4.13	0.68	15.2
457.68	462.60	HC22-2747	264.38	193.3	71.08	80.62	37.7	84.1	10.65	50	10.85	33.8	7.49	9.71	1.45	7.67	1.57	4	0.59	4.11	0.69	13.8
462.60	467.52	HC22-2748	245.15	180.11	65.04	74.61	36	78	9.86	46.5	9.75	29.9	7.04	9.16	1.28	7.22	1.39	3.93	0.55	3.86	0.71	14
467.52	472.44	HC22-2750	5384.86	4862	522.86	1646.45	1020	2280	251	1125	186	233	17.9	122.5	14.35	70.1	11.85	27.7	3.28	19.15	3.03	9
472.44	477.36	HC22-2751	6961.25	6374	587.25	2032.5	1425	3010	335	1390	214	263	18.3	138	16.3	77.2	13.2	31.8	3.73	22.3	3.42	8.3
477.36	482.28	HC22-2752	406.77	327.15	79.62	124.14	66.3	147	17.85	79.6	16.4	37.7	7.46	12.35	1.57	8.72	1.68	4.47	0.66	4.3	0.71	12.8
482.28	487.20	HC22-2753	355.33	275.05	80.28	109.21	54.2	122.5	15.1	69.1	14.15	37.7	7.65	11.7	1.67	9.19	1.79	4.83	0.64	4.44	0.67	12
487.20	492.13	HC22-2754	258.92	193.05	65.87	79.89	38.2	83.4	10.35	50.1	11	30.9	7.41	8.99	1.29	7.15	1.39	3.84	0.52	3.72	0.66	15.7

Appendix E – Surface Sample Assay Data

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
21001	475,680.79	4,635,581.84	3830	3525	305	1024	851	1695	187	686	107	11	68	8	37	6	17	2	15	2	139
21002	475,497.53	4,635,581.93	3488	3195	293	932	805	1500	169	623	98	12	63	7	35	6	16	2	14	2	135
21004	475,132.33	4,635,582.34	2690	2379	312	724	530	1170	127	472	80	10	58	7	38	7	18	2	15	2	154
21005	474,949.60	4,635,582.60	1288	1086	202	381	230	503	61	249	44	10	33	4	23	4	11	2	11	2	102
21006	474,766.91	4,635,582.80	1049	809	240	313	151	379	46	194	41	9	35	5	28	5	14	2	13	2	126
21007	475,131.87	4,635,125.45	3165	2847	317	905	713	1275	158	610	92	9	63	7	39	7	18	2	15	2	154
21008	474,949.07	4,635,125.67	3327	3014	314	926	749	1385	161	627	92	10	64	7	38	7	18	2	15	2	151
21009	474,766.34	4,635,125.93	2382	2101	281	673	464	1005	113	446	73	8	53	7	35	6	17	2	15	2	137
21010	475,314.61	4,635,125.26	3073	2764	309	851	589	1370	144	571	90	8	64	8	39	7	17	2	15	2	148
21011	475,497.38	4,635,125.07	977	758	219	290	157	345	43	177	37	3	35	5	28	5	14	2	10	1	117
21012	475,479.54	4,636,043.64	1635	1372	263	480	284	645	77	311	55	11	43	5	32	5	15	2	13	2	134
21013	475,680.14	4,635,124.82	2950	2619	330	832	582	1255	144	549	90	10	66	8	42	7	18	2	14	2	163
21014	475,862.94	4,635,124.60	3199	2840	358	859	561	1475	146	561	97	9	70	9	46	8	20	3	16	3	175
21017	475,314.13	4,634,668.34	2980	2659	321	830	573	1305	143	551	88	10	64	8	41	7	18	2	13	2	156
21018A	475,131.33	4,634,668.53	2112	1914	198	547	382	1015	96	361	60	7	39	5	25	4	12	1	9	1	94
21018B	475,131.33	4,634,668.53	3291	2946	345	920	653	1425	159	607	102	9	72	8	45	7	20	2	15	2	165
21019	474,948.55	4,634,668.70	3040	2719	321	841	607	1320	147	554	91	10	61	7	41	7	18	2	14	2	159
21020	474,764.24	4,634,798.16	2927	2599	328	783	525	1340	136	512	87	10	59	7	41	7	20	2	15	2	164
21022	474,782.75	4,634,373.03	2721	2415	306	772	542	1145	134	512	82	10	60	7	38	6	17	2	13	2	151
21023	474,948.26	4,634,364.09	2100	1842	258	591	418	871	103	386	64	7	48	6	32	5	15	2	11	2	130
21024	475,131.03	4,634,363.87	962	731	231	310	140	313	44	194	41	9	35	5	27	5	13	2	12	2	123
21027	475,679.29	4,634,363.32	2007	1767	240	552	396	854	96	361	60	9	44	5	30	5	13	2	10	2	120
HC22-0001	476,002.80	4,634,898.64	3297	3029	268	863	689	1514	152	584	90	10	59	3	34	3	15	1	11	1	131
HC22-0002	476,144.08	4,634,908.27	3091	2811	280	836	648	1365	143	566	89	9	60	3	35	4	16	1	12	2	138
HC22-0003	476,239.34	4,634,852.55	2964	2705	259	805	632	1303	140	545	85	9	57	2	33	3	14	1	12	1	127
HC22-0004	476,346.09	4,634,883.28	3230	2936	294	851	679	1442	149	580	86	10	55	3	33	4	17	1	14	2	155
HC22-0005	476,445.58	4,634,877.51	2437	2155	282	636	459	1101	104	418	73	7	53	4	37	4	17	1	13	2	144
HC22-0006	476,253.94	4,634,976.85	2750	2487	263	748	565	1210	126	504	82	9	56	3	33	4	15	1	12	2	128
HC22-0007	476,147.72	4,634,977.32	2289	1945	344	580	419	991	88	378	69	11	54	4	41	5	20	1	17	2	189
HC22-0008	476,147.72	4,634,977.32	2910	2623	287	791	593	1279	134	530	87	8	60	3	37	4	16	1	13	2	143
HC22-0009	476,042.07	4,634,977.89	1727	1418	309	489	273	702	71	306	66	6	53	5	41	5	19	1	14	2	163
HC22-0010	475,947.37	4,634,974.99	2777	2476	301	753	567	1198	126	502	83	9	59	4	38	4	17	1	14	2	153
HC22-0011	475,840.84	4,635,083.61	3575	3250	325	970	754	1572	168	653	103	8	70	4	42	5	18	1	15	2	160
HC22-0012	475,945.15	4,635,080.14	3116	2755	361	860	626	1321	142	568	98	8	72	5	47	3	21	1	17	3	184
HC22-0013	476,046.31	4,635,077.92	2529	2261	268	699	531	1069	118	466	77	8	54	4	34	4	15	1	12	2	134
HC22-0014	476,141.85	4,635,082.93	2558	2283	275	678	492	1152	112	450	77	8	54	4	35	4	16	1	13	2	138
HC22-0015	475,947.23	4,635,179.17	3619	3294	325	963	745	1631	167	649	102	9	69	3	42	4	18	1	15	2	162
HC22-0016	475,853.41	4,635,265.43	4183	3818	365	1116	855	1898	194	755	116	10	78	5	46	4	21	1	17	3	180
HC22-0017	475,949.56	4,635,279.98	4221	3838	383	1155	884	1853	199	782	120	10	81	5	49	5	22	1	18	3	189
HC22-0018	475,957.65	4,635,365.44	3037	2760	277	825	634	1339	142	559	86	10	57	3	35	4	16	1	12	2	137
HC22-0019	475,845.25	4,635,381.26	3763	3413	350	1038	825	1598	179	704	107	10	72	4	44	5	20	1	17	3	174
HC22-0020	476,644.53	4,634,882.85	2462	2213	249	692	521	1032	116	471	73	12	50	2	30	3	14	1	11	1	125
HC22-0021	476,655.03	4,634,973.75	227	197	30	53	47	101	8	33	8	1	4	1	3	1	2	1	1	1	15
HC22-0022	476,547.42	4,634,980.65	4090	3781	309	1132	904	1788	199	777	113	12	71	4	39	4	16	1	14	2	146
HC22-0023	476,443.49	4,634,975.78	2856	2595	261	778	590	1263	133	527	82	10	55	3	33	1	15	1	12	2	129

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
HC22-0024	476,447.57	4,635,079.02	3295	3048	247	858	679	1543	152	586	88	10	55	1	31	2	14	1	11	1	121
HC22-0025	476,350.43	4,635,092.44	2841	2586	255	777	600	1244	135	525	82	10	54	3	32	3	14	1	12	1	125
HC22-0026	476,356.98	4,635,189.79	3101	2799	302	764	547	1530	125	511	86	9	60	3	39	1	18	1	14	2	155
HC22-0027	476,446.83	4,635,180.50	3740	3408	332	1013	793	1647	176	688	104	11	70	3	42	3	19	1	16	3	164
HC22-0028	476,541.93	4,635,180.74	2997	2703	294	835	651	1256	146	565	85	11	57	3	36	4	17	1	13	2	150
HC22-0029	476,646.32	4,635,175.29	2883	2605	278	787	602	1253	136	533	81	11	54	3	34	4	16	1	13	2	140
HC22-0030	476,554.97	4,635,083.44	3339	3021	318	908	701	1455	156	615	94	11	64	3	40	4	18	1	15	2	160
HC22-0031	476,645.25	4,635,079.04	3041	2807	234	782	668	1387	141	535	76	11	47	2	28	3	13	1	11	1	117
HC22-0032	476,747.88	4,635,172.19	2793	2546	247	770	598	1210	133	526	79	12	52	2	30	1	14	1	12	1	122
HC22-0033	476,852.84	4,635,190.28	1485	1254	231	432	265	588	63	284	54	11	40	3	28	3	14	1	12	1	118
HC22-0034	476,952.30	4,635,175.85	1725	1524	201	484	350	718	77	323	56	8	38	3	25	2	12	1	8	1	103
HC22-0035	477,016.87	4,635,176.86	1792	1547	245	483	350	748	78	314	57	5	41	3	31	3	15	1	12	1	133
HC22-0036	477,035.28	4,635,275.51	1133	873	260	355	180	374	46	223	50	11	40	4	32	4	17	1	13	1	137
HC22-0037	476,944.43	4,635,281.46	721	549	172	211	92	269	25	130	33	10	26	2	21	2	11	1	9	1	89
HC22-0038	476,844.50	4,635,279.68	3541	3250	291	970	747	1574	168	664	97	12	62	4	37	1	16	1	14	2	142
HC22-0039	476,754.58	4,635,290.74	3876	3562	314	1030	815	1760	201	678	108	13	69	3	40	1	20	1	17	3	147
HC22-0040	476,648.55	4,635,273.21	2568	2280	288	692	500	1128	114	459	79	9	55	3	37	1	17	1	14	2	149
HC22-0041	476,941.27	4,635,382.51	1736	1529	207	481	337	738	78	321	55	12	37	2	25	3	12	1	10	1	104
HC22-0042	477,042.74	4,635,377.30	1533	1344	189	432	300	637	68	289	50	11	33	2	23	2	12	1	9	1	95
HC22-0043	477,046.55	4,635,476.88	667	513	154	210	96	226	25	134	32	13	23	1	18	1	11	1	7	1	78
HC22-0044	476,949.62	4,635,476.19	1519	1261	258	446	265	585	63	291	57	12	42	4	31	3	16	1	13	2	134
HC22-0045	476,845.16	4,635,381.38	940	736	204	295	163	306	38	188	41	10	32	3	25	3	13	1	11	1	105
HC22-0046	476,749.89	4,635,379.25	2347	2110	237	641	482	1018	108	433	69	11	46	2	29	1	14	1	11	1	121
HC22-0047	476,649.63	4,635,376.24	1972	1720	252	553	427	775	92	363	63	10	44	3	32	1	16	1	13	2	130
HC22-0048	476,548.90	4,635,381.13	3102	2816	286	856	692	1306	150	581	87	10	57	3	35	4	16	1	14	2	144
HC22-0049	476,443.41	4,635,377.81	3930	3606	324	1076	809	1763	188	738	108	12	68	2	40	4	18	1	15	3	161
HC22-0050	476,353.05	4,635,380.00	3512	3226	286	1011	801	1452	181	692	100	12	62	3	35	4	16	1	13	2	138
HC22-0051	476,239.91	4,635,373.16	2537	2271	266	683	479	1146	113	456	77	10	51	3	34	3	16	1	14	2	132
HC22-0052	476,150.22	4,635,378.79	3648	3330	318	999	787	1587	176	677	103	11	68	3	40	2	18	1	14	2	159
HC22-0053	476,076.71	4,635,382.03	3406	3093	313	930	722	1483	160	631	97	11	66	3	39	4	18	1	14	2	155
HC22-0054	476,046.48	4,635,473.73	2784	2517	267	730	536	1288	123	491	79	10	53	3	34	1	16	1	13	2	134
HC22-0055	476,142.33	4,635,474.30	3004	2746	258	825	664	1292	145	560	85	11	55	3	32	1	14	1	12	1	128
HC22-0056	476,278.61	4,635,480.17	3558	3256	302	967	760	1570	169	659	98	12	64	3	38	4	17	1	13	2	148
HC22-0057	476,443.82	4,635,475.96	2770	2525	245	752	581	1225	130	512	77	10	50	3	30	1	14	1	12	1	123
HC22-0058	476,548.77	4,635,467.84	1896	1621	275	539	363	757	82	352	67	10	49	4	34	4	16	1	12	2	143
HC22-0059	476,649.12	4,635,472.28	2861	2616	245	780	579	1291	135	531	80	11	51	3	31	1	14	1	12	1	120
HC22-0060	476,749.99	4,635,488.05	3368	3104	264	906	696	1537	158	622	91	12	58	2	33	2	15	1	13	2	126
HC22-0061	476,848.38	4,635,477.41	2241	1997	244	621	453	955	103	418	68	12	45	2	30	1	15	1	12	1	125
HC22-0062	477,046.69	4,635,572.58	787	623	164	232	124	287	30	149	33	11	24	1	19	1	11	1	8	1	87
HC22-0063	477,049.31	4,635,767.98	2513	2274	239	706	526	1075	119	478	76	6	49	2	31	2	14	1	12	1	121
HC22-0064	477,048.62	4,635,887.12	1323	1083	240	365	230	522	51	231	49	5	38	4	30	3	17	1	11	1	130
HC22-0066	477,051.12	4,635,968.27	1437	1213	224	369	275	600	58	234	46	4	34	3	28	3	15	1	10	1	125
HC22-0067	476,962.38	4,635,984.32	1369	1264	105	339	300	639	61	229	35	5	20	1	13	1	6	1	4	1	53
HC22-0068	476,946.54	4,635,882.45	1430	1260	170	373	282	628	60	246	44	5	31	1	22	1	11	1	8	1	89
HC22-0069	476,948.94	4,635,779.19	1683	1462	221	460	325	708	73	300	56	5	40	3	28	1	14	1	11	1	117
HC22-0070	476,950.72	4,635,686.81	336	244	92	104	45	106	12	64	17	11	12	1	10	1	6	1	4	1	45
HC22-0071	476,950.87	4,635,580.11	1186	986	200	332	227	452	48	216	43	12	30	2	23	2	13	1	11	1	105
HC22-0073	474,671.28	4,632,708.90	47	17	30	8	5	6	4	1	1	1	22	1	1	1	1	1	1	1	0

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
HC22-0074	474,661.35	4,632,763.90	55	24	31	11	5	10	4	4	1	1	21	1	1	1	1	1	1	1	2
HC22-0075	476,245.96	4,635,172.18	2973	2675	298	771	576	1375	117	533	74	10	73	6	41	6	11	1	12	1	137
HC22-0076	476,157.93	4,635,176.36	2729	2459	270	721	573	1207	112	501	66	9	66	6	36	5	10	1	11	1	125
HC22-0077	476,051.55	4,635,179.82	3335	3026	309	876	694	1505	135	611	81	10	80	7	42	6	11	1	12	1	139
HC22-0078	476,071.59	4,635,265.58	3718	3352	366	986	793	1631	151	687	90	11	91	9	49	7	13	1	15	1	169
HC22-0079	476,146.08	4,635,280.43	3035	2689	346	847	644	1252	127	586	80	11	83	8	46	6	13	1	14	1	163
HC22-0080	476,246.56	4,635,275.76	2814	2511	303	769	607	1182	117	533	72	10	73	7	40	6	11	1	12	1	142
HC22-0081	476,340.57	4,635,272.23	3421	3067	354	939	739	1444	144	654	86	11	87	8	47	6	13	1	14	1	166
HC22-0082	476,455.45	4,635,277.40	3469	3139	330	931	761	1498	143	655	82	12	80	8	43	6	12	1	14	1	153
HC22-0083	476,541.51	4,635,279.56	2376	2076	300	620	467	1034	92	423	60	9	63	6	39	6	12	1	13	1	150
HC22-0084	477,004.47	4,635,990.07	1407	1256	151	331	261	684	61	214	36	5	27	1	20	3	9	1	8	1	76
HC22-0085	476,754.68	4,635,958.13	1632	1481	151	438	338	723	80	298	41	8	30	1	18	3	9	1	7	1	74
HC22-0086	476,510.11	4,636,124.81	644	477	167	189	95	215	27	114	25	7	23	1	21	4	10	1	8	1	90
HC22-0087	476,571.07	4,636,268.94	3170	2829	341	812	657	1409	146	535	83	10	62	2	46	8	21	3	17	2	171
HC22-0088	476,675.26	4,636,334.88	2635	2326	309	689	515	1165	122	451	73	10	56	2	41	7	18	2	15	2	156
HC22-0089	477,001.49	4,636,351.92	2403	2105	298	612	507	1026	109	398	64	9	50	2	38	6	17	2	14	2	157
HC22-0090	477,149.20	4,636,356.22	2419	2074	345	615	472	1034	109	394	66	10	54	2	44	7	20	2	16	2	188
HC22-0091	477,375.39	4,636,224.26	1822	1515	307	476	325	754	79	304	53	9	46	2	38	7	18	2	14	2	170
L001	474,929.58	4,635,642.01	1274	1037	237	352	200	517	54	222	44	9	33	5	27	5	16	2	14	2	125
L002	474,962.85	4,635,640.11	880	686	194	257	134	323	38	159	33	9	27	4	24	4	13	2	10	2	100
L003	474,993.64	4,635,641.34	1477	1244	232	411	234	633	65	263	50	10	37	5	29	5	14	2	13	2	115
L004	475,021.09	4,635,637.91	1269	1047	222	347	184	548	52	218	45	10	35	5	27	5	14	2	12	2	110
L005	475,051.96	4,635,637.47	1872	1650	221	499	313	871	83	327	57	11	40	5	28	5	13	2	11	2	106
L006	475,053.89	4,635,617.48	755	597	158	225	109	286	33	139	31	8	25	3	20	3	10	1	9	1	78
L007	475,079.77	4,635,639.59	2485	2259	227	641	487	1165	111	427	69	10	44	5	28	5	13	2	12	2	105
L008	475,080.76	4,635,613.49	3412	3128	284	890	692	1590	157	596	93	11	59	7	36	6	16	2	15	2	131
L009	475,021.50	4,635,610.26	2199	1909	290	619	375	959	101	404	71	11	51	7	37	6	18	2	15	2	141
L010	474,991.21	4,635,610.37	1766	1524	243	489	304	766	79	317	58	10	42	5	30	5	15	2	13	2	119
L011	474,959.91	4,635,606.48	1163	968	196	330	196	468	53	209	41	9	31	4	23	4	12	1	11	2	99
L012	474,930.04	4,635,605.92	559	409	150	168	85	176	25	101	22	6	19	3	17	3	10	1	8	1	81
L013	474,932.83	4,635,576.82	1020	837	183	289	170	403	45	184	36	9	27	4	21	4	11	2	11	1	94
L014	474,960.89	4,635,577.95	1102	880	222	347	191	375	51	218	45	10	35	5	27	5	14	2	12	2	112
L015	474,987.51	4,635,575.18	3111	2834	277	829	672	1375	145	556	86	11	55	7	35	6	16	2	14	2	130
L016	475,019.07	4,635,580.96	3072	2798	274	809	621	1410	142	541	84	11	55	7	35	6	16	2	14	2	127
L017	475,047.29	4,635,581.97	2979	2724	256	745	583	1435	131	497	78	10	50	6	33	5	15	2	14	2	119
L018	475,081.38	4,635,578.07	2859	2585	275	776	585	1265	133	517	85	10	54	7	35	6	16	2	14	2	129
L019	475,076.23	4,635,552.22	2493	2232	261	670	510	1090	114	444	74	8	50	6	32	6	16	2	13	2	126
L020	475,049.33	4,635,550.10	4158	3808	350	1078	819	1965	186	723	116	10	74	9	46	7	20	3	18	3	161
L021	475,019.22	4,635,551.31	3973	3657	316	1054	866	1785	187	713	107	11	66	8	41	6	18	2	16	3	146
L022	474,990.83	4,635,551.97	3169	2899	271	840	660	1440	147	565	87	11	55	7	35	6	16	2	14	2	125
L023	474,990.57	4,635,521.21	2789	2538	252	748	578	1250	129	501	80	11	51	6	32	5	15	2	13	2	117
L024	475,020.53	4,635,524.44	2322	2083	240	618	470	1030	105	410	68	10	46	6	30	5	14	2	12	2	112
L025	475,050.23	4,635,519.79	1964	1722	242	495	329	934	83	320	57	8	41	6	31	5	15	2	12	2	121
L026	475,077.30	4,635,525.35	1560	1306	254	433	254	656	69	278	49	8	39	5	32	6	16	2	14	2	131
L027	475,080.01	4,635,492.14	1832	1604	229	505	345	785	85	337	51	9	37	5	27	5	14	2	13	2	116
L028	475,046.98	4,635,493.37	1761	1510	251	491	302	753	80	321	54	9	41	5	31	6	14	2	13	2	130
L029	475,018.03	4,635,497.02	2194	1952	242	611	462	913	104	409	64	10	43	5	29	5	14	2	13	2	120
L030	474,990.19	4,635,484.13	4049	3704	345	1125	865	1765	199	765	110	13	72	8	43	7	20	2	17	3	161

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
L031	475,002.82	4,635,468.43	1903	1649	254	545	372	769	90	360	58	9	44	5	32	5	15	2	12	2	128
L032	475,022.04	4,635,457.37	1689	1453	236	474	311	702	78	312	50	10	38	5	29	5	15	2	12	2	120
L033	475,044.89	4,635,466.84	1882	1649	234	513	350	818	88	340	53	9	38	5	28	5	15	2	13	2	119
L034	475,077.49	4,635,459.73	2724	2433	291	758	581	1135	131	510	76	11	52	6	35	6	17	2	15	2	145
L035	475,089.51	4,635,434.60	3160	2864	296	883	674	1350	153	599	88	11	59	7	37	6	17	2	15	2	141
L036	475,054.39	4,635,428.84	2951	2638	314	805	619	1260	139	539	81	11	57	7	39	7	19	2	15	2	155
L037	475,019.03	4,635,429.41	1808	1550	258	490	303	794	81	318	54	10	42	5	32	5	16	2	13	2	132
L038	474,993.32	4,635,431.60	1862	1590	273	516	308	805	85	336	56	9	41	5	34	6	17	2	15	2	142
L039	474,982.70	4,635,408.22	2642	2329	313	732	547	1095	125	487	75	10	54	7	39	7	19	2	15	2	158
L040	475,015.73	4,635,408.66	2249	1972	278	619	461	931	104	413	63	10	47	6	34	6	17	2	15	2	141
L041	475,047.26	4,635,408.21	2749	2456	293	747	556	1195	128	500	77	10	53	6	36	6	18	2	14	2	146
L042	475,078.51	4,635,398.99	2589	2297	293	743	551	1045	126	498	77	11	55	7	36	6	17	2	15	2	142
L043	475,078.37	4,635,359.69	2768	2521	247	749	569	1240	132	506	75	10	50	6	31	5	14	2	12	2	116
L044	475,045.56	4,635,373.68	3099	2807	292	864	660	1325	150	586	86	11	57	7	36	6	17	2	14	2	142
L045	475,019.16	4,635,371.00	2913	2637	276	805	633	1240	141	544	80	11	54	6	34	6	16	2	13	2	133
L046	474,999.37	4,635,359.30	3076	2714	362	803	684	1280	138	528	84	12	61	8	45	8	22	3	18	3	184
L047	474,992.93	4,635,343.67	3510	3175	335	947	777	1500	166	638	94	11	61	7	41	7	19	2	16	2	167
L048	475,021.56	4,635,343.90	2719	2454	265	759	587	1145	130	514	78	10	51	6	32	5	15	2	13	2	128
L049	475,048.27	4,635,339.37	3251	2973	278	873	671	1470	152	590	90	10	57	7	35	6	16	2	14	2	130
L050	475,078.73	4,635,341.27	3250	2965	285	943	685	1380	165	639	96	11	60	7	37	6	16	2	14	2	131
L051	475,082.78	4,635,311.60	3277	2957	320	912	699	1395	157	613	93	8	63	8	41	7	19	2	16	2	154
L052	475,054.38	4,635,308.15	2690	2403	287	752	564	1130	128	500	82	9	56	7	36	6	17	2	14	2	138
L053	475,021.89	4,635,319.04	3421	3111	310	928	690	1540	162	625	95	10	63	7	40	6	18	2	15	2	147
L054	474,998.71	4,635,288.58	3084	2794	290	851	642	1345	146	575	86	9	59	7	37	6	16	2	14	2	137
L055	475,054.86	4,635,279.95	3431	3121	310	956	742	1470	166	645	98	8	65	7	40	7	18	2	15	2	147
L056	475,079.17	4,635,277.97	2764	2492	272	758	570	1205	130	510	77	8	53	6	34	6	16	2	14	2	132
L057	475,091.71	4,635,257.28	3223	2906	317	883	690	1380	154	593	90	9	59	7	39	7	19	2	15	2	157
L058	475,044.89	4,635,254.00	2815	2543	272	783	596	1205	135	528	79	8	54	6	35	6	16	2	13	2	130
L059	475,019.64	4,635,247.32	3083	2776	307	851	646	1325	147	570	88	9	60	7	39	6	18	2	15	2	148
L060	474,997.41	4,635,248.51	2693	2454	239	712	543	1235	124	479	73	8	49	6	31	5	14	2	12	2	111
L061	475,099.04	4,635,216.06	2407	2093	314	673	478	989	111	441	74	9	54	7	40	7	19	2	16	2	159
L062	475,022.94	4,635,215.55	2854	2546	308	769	617	1205	131	512	81	9	57	7	38	7	18	2	15	2	152
L063	474,989.51	4,635,221.67	3312	3017	295	903	728	1430	157	608	95	11	61	7	37	6	17	2	14	2	139
L064	474,987.32	4,635,190.36	2775	2502	273	725	547	1270	124	484	77	10	53	6	34	6	16	2	14	2	130
L065	475,022.08	4,635,186.13	2824	2534	290	750	566	1260	127	500	81	9	55	7	36	6	17	2	14	2	142
L066	475,103.93	4,635,190.06	2970	2637	333	793	621	1270	135	525	86	8	61	8	40	7	20	3	17	2	168
L067	474,991.30	4,635,162.26	3305	2991	314	905	751	1380	156	610	94	11	65	7	38	7	18	2	14	2	151
L068	474,960.76	4,635,165.70	3169	2863	306	866	657	1385	149	580	92	10	61	7	38	7	18	2	16	2	145
L069	474,928.13	4,635,158.27	3592	3272	321	950	744	1625	164	639	100	10	66	8	39	7	19	2	15	2	152
L070	474,879.82	4,635,133.45	3680	3334	346	1029	841	1515	179	692	107	11	73	8	43	7	20	2	16	2	165
L071	474,902.11	4,635,125.04	3564	3211	353	960	738	1565	164	641	104	10	71	9	43	8	20	3	17	3	170
L072	474,928.80	4,635,115.19	3447	3074	374	950	737	1440	161	632	104	10	70	8	45	8	22	3	18	3	188
L073	474,964.76	4,635,120.83	3171	2864	307	849	670	1390	146	569	90	9	60	7	38	6	18	2	15	2	148
L074	474,995.74	4,635,129.49	3140	2828	311	849	670	1355	144	568	91	10	62	7	38	7	18	2	15	2	151
L075	475,020.39	4,635,129.29	2570	2296	273	678	522	1135	114	451	74	8	51	6	33	6	15	2	14	2	137
L076	475,050.43	4,635,129.08	2755	2492	264	724	561	1245	123	485	78	9	51	6	32	6	15	2	13	2	128
L077	475,082.31	4,635,131.74	3053	2777	276	824	663	1330	143	554	87	9	56	7	33	6	16	2	13	2	132
L078	475,739.51	4,632,619.25	3075	2726	350	893	676	1210	147	592	101	10	72	9	45	8	20	2	14	2	168

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
L079	475,738.51	4,632,643.24	2819	2532	288	728	489	1360	120	477	86	10	59	7	38	7	17	2	13	2	133
L080	475,767.13	4,632,638.03	4803	4242	561	1378	894	2060	222	902	164	11	119	15	76	13	33	4	23	3	265
L081	475,799.78	4,632,644.47	4082	3628	455	1179	830	1690	196	777	135	12	97	12	59	10	26	3	19	3	214
L082	475,800.35	4,632,614.83	2773	2455	318	761	528	1215	126	499	88	9	61	8	41	7	19	2	14	2	155
L083	475,794.91	4,632,556.22	1797	1565	232	493	296	811	79	321	58	6	43	5	30	5	14	2	12	2	114
L084	475,774.26	4,632,562.62	1969	1756	214	538	350	900	89	354	63	7	42	5	27	5	13	2	9	1	103
L085	475,758.82	4,632,588.54	1971	1729	242	542	340	884	88	355	62	8	46	6	31	6	14	2	12	2	117
L086	475,780.38	4,632,603.46	3212	2835	378	901	622	1370	147	590	106	11	76	10	49	9	22	3	17	2	180
L087	475,763.55	4,632,538.01	2676	2380	296	732	505	1190	121	481	84	9	58	8	39	7	18	2	13	2	142
L088	475,770.38	4,632,519.23	4184	3763	421	1166	837	1825	195	776	130	12	88	11	55	9	24	3	18	3	200
L089	475,740.42	4,632,520.66	2914	2529	385	809	550	1230	129	525	95	11	70	9	50	9	24	3	17	2	191
L090	475,709.87	4,632,522.54	3509	3149	360	980	720	1505	165	650	109	10	74	9	47	8	20	3	16	2	171
L091	475,677.98	4,632,517.99	2620	2330	290	705	520	1150	117	462	81	10	57	7	38	7	17	2	12	2	138
L092	475,677.59	4,632,551.07	2054	1849	204	554	381	945	94	368	61	8	41	5	26	4	11	1	10	1	97
L093	475,707.89	4,632,551.52	3221	2853	368	876	600	1435	143	572	104	11	71	9	48	8	22	3	16	2	178
L094	475,741.10	4,632,550.97	3317	2989	329	918	682	1440	154	609	104	11	70	8	43	7	19	2	14	2	153
L095	475,729.28	4,632,565.88	3162	2810	352	893	616	1355	147	589	103	10	69	9	46	8	21	2	16	2	169
L096	475,717.29	4,632,579.36	2194	1929	266	625	400	945	103	409	72	9	51	6	35	6	15	2	12	2	128
L097	475,679.26	4,632,578.60	2498	2180	318	678	391	1160	108	438	83	9	57	8	42	7	19	2	15	2	157
L098	475,709.42	4,632,608.03	2002	1750	252	551	378	859	92	357	64	8	47	6	32	5	14	2	11	2	125
L099	475,708.20	4,632,641.79	2986	2627	359	823	581	1280	135	533	98	10	70	9	48	8	20	2	16	2	174
L100	475,675.04	4,632,605.82	2790	2464	327	763	558	1195	126	495	90	10	65	8	45	7	19	2	14	2	155
L101	475,678.32	4,632,644.66	2167	1874	293	615	394	910	99	398	73	9	56	7	38	6	17	2	12	2	143
OM-SS001	475,584.38	4,634,326.61	1882	1602	280	522	364	755	84	338	61	9	43	6	33	6	17	2	14	2	147
OM-SS001_B	475,584.38	4,634,326.61	1355	1091	265	419	218	490	62	271	50	10	41	5	32	5	16	2	14	2	137
OM-SS002	475,631.00	4,634,393.06	2991	2677	315	827	599	1300	140	542	96	7	63	8	41	7	17	2	14	2	153
OM-SS002_B	475,631.00	4,634,393.06	2731	2428	303	755	490	1230	124	497	87	6	63	7	40	7	18	2	14	2	144
OM-SS003	475,492.77	4,634,622.37	2264	2038	226	610	482	978	106	406	66	8	41	5	27	5	13	2	11	2	114
OM-SS003_B	475,492.77	4,634,622.37	2161	1939	223	596	434	941	100	403	61	8	42	5	28	5	12	2	11	2	110
OM-SS004	475,530.30	4,634,748.92	2589	2364	224	681	560	1155	122	458	70	9	41	5	26	5	12	2	11	2	112
OM-SS005	475,593.59	4,634,860.17	2908	2682	226	771	595	1350	138	520	80	9	46	6	27	5	12	2	10	2	108
OM-SS006	475,494.61	4,634,844.30	2708	2429	279	722	576	1170	130	475	78	9	54	7	33	6	15	2	13	2	138
OM-SS007	475,490.12	4,634,936.47	2775	2508	268	728	587	1230	133	481	77	9	52	7	31	6	15	2	13	2	133
OM-SS008	475,594.59	4,634,957.21	3040	2723	317	812	684	1270	147	538	84	9	60	7	36	7	18	2	15	2	161
OM-SS009	475,409.15	4,634,851.26	2956	2652	305	810	673	1210	148	537	84	9	57	7	34	6	17	2	15	2	155
OM-SS010	475,264.35	4,634,833.22	2875	2590	285	765	589	1275	138	506	82	8	56	7	32	6	16	2	14	2	142
OM-SS011	475,283.26	4,634,948.40	2785	2499	286	726	607	1205	133	479	76	8	53	7	32	6	16	2	15	2	144
OM-SS012	475,382.80	4,634,935.62	2942	2645	297	785	642	1260	143	516	84	8	58	7	35	7	17	2	14	2	147
OM-SS013	475,290.83	4,635,027.31	2631	2321	310	709	542	1115	125	458	81	8	58	8	37	7	17	2	15	2	156
OM-SS014	475,272.03	4,635,131.86	1930	1704	226	520	371	845	91	338	59	6	42	6	27	5	13	2	11	2	113
OM-SS015	475,190.71	4,635,137.36	2370	2139	230	553	365	1255	99	357	64	7	43	6	28	5	13	2	12	2	111
OM-SS016	475,179.60	4,635,234.21	3193	2875	319	844	660	1415	153	560	87	9	59	8	37	7	18	2	16	3	161
OM-SS017	475,285.20	4,635,246.17	2842	2573	269	701	529	1380	126	463	75	8	50	7	31	6	15	2	14	2	135
OM-SS018	475,287.01	4,635,312.45	2672	2411	261	699	567	1180	128	463	73	8	48	6	29	5	15	2	14	2	131
OM-SS019	475,187.60	4,635,339.11	3608	3264	344	970	777	1565	177	643	102	9	69	9	40	8	19	3	16	3	170
OM-SS020	475,192.60	4,635,440.68	3182	2893	290	864	714	1355	158	580	86	10	58	7	33	6	15	2	14	2	142
OM-SS021	475,195.73	4,635,552.81	3163	2874	289	855	674	1385	156	573	86	11	58	7	32	6	16	2	14	2	141
OM-SS022	474,716.94	4,635,141.47	3142	2807	335	837	647	1370	151	549	90	9	63	8	39	7	19	3	17	3	168

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
OM-SS023	474,597.20	4,635,144.33	2775	2484	291	728	557	1240	130	479	78	9	54	7	33	6	16	2	14	2	146
OM-SS024	474,585.46	4,635,229.31	3292	2972	320	854	662	1500	155	567	88	10	59	8	36	7	18	3	17	3	161
OM-SS025	474,686.65	4,635,234.28	3126	2819	307	841	621	1400	150	558	90	10	61	8	35	7	17	2	16	2	150
OM-SS026	474,791.54	4,635,231.91	3325	3031	295	880	687	1505	162	586	91	10	59	7	34	6	16	2	15	2	143
OM-SS027	474,787.70	4,635,342.84	2510	2260	249	673	497	1125	120	447	71	11	48	6	29	5	14	2	13	2	121
OM-SS028	474,700.77	4,635,333.16	2408	2134	274	643	489	1040	114	423	68	9	48	6	32	6	16	2	14	2	139
OM-SS029	474,591.76	4,635,342.76	2593	2318	275	729	644	980	133	489	73	11	50	6	29	6	15	2	13	2	141
OM-SS030	474,572.97	4,635,425.54	2724	2460	264	631	485	1380	114	416	65	8	44	6	30	6	15	2	14	2	137
OM-SS031	474,478.72	4,635,430.77	2145	1905	240	545	362	1030	95	357	61	9	41	5	27	5	14	2	14	2	121
OM-SS032	474,488.35	4,635,525.33	1328	1039	289	354	220	503	58	214	44	3	38	6	33	7	18	3	15	2	166
OM-SS032_B	474,488.35	4,635,525.33	1126	850	276	328	176	386	47	200	42	3	37	5	34	6	18	2	14	2	154
OM-SS033	474,585.09	4,635,542.41	3041	2749	292	823	641	1325	149	549	85	11	56	7	33	6	16	2	14	2	145
OM-SS034	474,688.89	4,635,537.60	2716	2433	283	735	575	1160	132	490	76	10	52	6	31	6	16	2	14	2	143
OM-SS035	474,390.88	4,635,535.78	1166	948	218	348	200	428	55	222	43	11	34	5	23	5	12	2	12	2	114
OM-SS036	474,406.54	4,635,436.69	998	807	191	271	163	399	44	169	33	3	28	4	22	4	12	2	10	1	106
OM-SS037	474,381.83	4,635,327.41	4690	4301	389	1139	1055	2160	219	755	112	10	72	9	44	8	21	3	18	3	200
OM-SS038	474,395.69	4,635,259.30	3165	2874	291	849	699	1365	155	570	85	11	57	7	32	6	16	2	15	2	143
OM-SS039	474,490.82	4,635,335.24	2726	2450	276	724	567	1195	131	481	76	10	51	6	30	6	15	2	15	2	139
OM-SS040	474,491.86	4,635,230.98	3751	3421	330	1013	815	1640	186	676	105	9	67	8	39	7	18	2	15	2	162
OM-SS041	474,290.08	4,635,152.54	3642	3341	302	983	834	1565	179	665	98	13	59	7	34	6	16	2	14	2	149
OM-SS042	474,206.28	4,635,113.32	2878	2592	286	758	617	1255	137	506	77	9	48	6	32	6	16	2	14	2	151
OM-SS043	474,287.36	4,635,433.56	1055	847	208	317	161	397	49	200	41	10	30	4	23	5	12	2	11	2	109
OM-SS044	474,285.59	4,635,333.53	4190	3867	324	1128	904	1880	205	765	113	13	65	8	38	7	17	2	14	2	158
OM-SS045	474,290.40	4,635,241.47	3192	2890	302	802	571	1560	142	530	87	8	54	7	36	7	17	2	15	3	153
OM-SS046	474,590.26	4,634,829.37	3441	3127	314	966	766	1440	172	646	103	11	62	8	37	7	16	2	14	2	156
OM-SS047	474,590.20	4,634,929.08	3049	2734	315	805	589	1385	142	530	88	9	57	8	37	7	18	3	15	3	160
OM-SS048	474,680.46	4,634,918.98	3433	3083	350	933	734	1465	165	620	100	10	63	8	41	8	19	3	17	3	180
OM-SS049	474,711.46	4,635,023.24	2589	2210	379	709	486	1070	118	453	84	8	60	9	46	9	22	3	17	3	204
OM-SS050	474,786.18	4,635,008.10	2562	2305	257	674	535	1130	122	449	70	8	43	6	28	6	14	2	13	2	135
OM-SS051	474,784.78	4,634,939.71	2603	2330	272	689	519	1160	122	455	75	8	49	7	32	6	16	2	14	2	138
OM-SS052	474,882.36	4,635,031.19	3083	2764	318	860	694	1255	153	572	91	10	57	8	37	7	17	2	14	2	164
OM-SS053	474,879.04	4,634,934.60	3169	2845	325	872	678	1340	153	579	95	10	60	8	38	7	18	3	15	3	164
OM-SS054	474,981.94	4,634,933.80	3692	3323	370	1001	760	1615	177	660	111	9	71	9	44	8	21	3	17	3	186
OM-SS055	474,992.62	4,635,043.12	2792	2506	286	741	555	1250	131	490	80	9	52	7	34	6	16	2	14	2	144
OM-SS056	475,080.84	4,635,042.37	2946	2662	284	799	590	1315	141	527	90	10	56	7	35	6	15	2	13	2	138
OM-SS057	474,886.88	4,634,828.43	2618	2341	277	705	525	1150	123	465	78	8	51	7	32	6	15	2	13	2	140
OM-SS057_B	474,886.88	4,634,828.43	2044	1839	205	571	413	884	96	387	59	6	41	5	25	4	12	2	10	1	101
OM-SS058	474,980.52	4,634,835.43	2509	2214	295	680	509	1065	118	445	77	9	51	7	34	7	16	2	13	2	154
OM-SS059	475,078.63	4,634,838.42	2556	2263	294	693	526	1085	120	455	77	9	52	7	34	6	16	2	13	2	151
OM-SS059_B	475,078.63	4,634,838.42	2257	1990	267	632	432	965	103	422	68	8	49	6	33	6	16	2	14	2	133
OM-SS060	475,197.05	4,634,810.69	2874	2555	319	801	613	1185	140	530	87	9	58	8	37	7	18	2	14	2	164
OM-SS061	475,091.57	4,634,930.64	3160	2841	319	874	687	1325	155	580	94	9	60	8	37	7	17	2	14	2	161
OM-SS062	475,182.62	4,634,934.87	2252	1998	254	586	463	982	104	386	63	8	39	5	28	6	15	2	13	2	136
OM-SS063	474,275.31	4,634,738.79	3480	3174	307	926	745	1545	168	623	93	10	55	7	35	7	17	2	15	2	156
OM-SS064	474,376.84	4,634,586.88	3957	3594	363	1066	843	1735	192	715	109	11	66	9	41	8	20	3	18	3	186
OM-SS065	474,291.35	4,634,631.15	3483	3177	305	915	726	1580	166	611	95	9	58	8	37	7	17	2	14	2	151
OM-SS066	474,551.16	4,634,525.19	2803	2548	255	735	574	1275	131	491	77	10	47	6	29	6	14	2	12	2	128
OM-SS067	474,767.45	4,634,758.91	3015	2729	287	805	633	1330	144	537	85	10	52	7	33	6	16	2	13	2	145

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
OM-SS067_B	474,767.45	4,634,758.91	2811	2551	259	761	549	1280	129	516	77	9	50	6	32	5	15	2	13	2	125
OM-SS068	474,686.00	4,634,747.76	3123	2784	339	851	647	1335	150	560	93	10	60	8	40	8	19	3	15	2	174
OM-SS069	474,597.45	4,634,727.76	3473	3125	348	924	700	1550	164	612	99	10	61	8	41	8	19	3	17	3	179
OM-SS070	474,488.56	4,634,727.26	3512	3201	311	939	755	1550	170	629	97	10	58	7	36	7	16	2	15	3	157
OM-SS071	474,382.14	4,634,720.87	1930	1712	217	512	418	813	90	334	57	8	36	5	25	5	12	2	10	2	113
OM-SS072	474,470.03	4,634,627.51	3130	2808	322	850	648	1355	151	563	92	9	57	8	38	7	18	3	14	2	167
OM-SS073	474,274.91	4,634,536.61	2819	2541	278	697	538	1345	124	460	74	9	46	6	33	6	16	2	14	2	142
OM-SS074	474,284.41	4,634,432.55	352	260	93	91	60	120	14	55	11	3	9	2	9	2	6	1	5	1	55
OM-SS075	474,188.60	4,634,424.68	3352	3040	311	879	654	1555	158	583	90	9	61	7	40	7	19	2	16	2	147
OM-SS076	474,186.14	4,634,524.06	3369	3050	319	913	736	1450	166	604	94	10	63	8	42	7	19	2	15	2	151
OM-SS077	473,937.66	4,634,913.78	2380	2080	300	649	512	961	115	425	67	10	48	6	36	6	19	2	16	2	155
OM-SS078	473,901.91	4,634,829.09	2293	1972	321	667	474	876	114	435	73	12	53	7	39	7	20	2	17	2	163
OM-SS079	473,982.32	4,634,826.02	1961	1688	273	541	366	821	92	349	59	11	45	6	35	6	17	2	14	2	135
OM-SS080	473,909.35	4,634,751.34	1641	1405	237	487	333	619	82	318	53	12	40	5	30	5	14	2	12	2	116
OM-SS081	473,984.86	4,634,725.86	1175	944	231	356	196	425	55	224	44	9	36	5	28	5	15	2	13	2	117
OM-SS082	473,984.86	4,634,725.86	3887	3594	293	1038	866	1735	193	700	101	12	65	7	38	6	17	2	14	2	130
OM-SS083	474,082.00	4,634,735.50	2687	2388	299	741	542	1150	131	490	76	13	55	6	39	6	17	2	15	2	144
OM-SS084	474,089.31	4,634,624.33	3769	3443	326	1010	846	1635	186	676	100	14	67	7	41	7	20	2	15	2	152
OM-SS085	474,184.66	4,634,618.99	850	662	187	234	140	316	37	141	29	4	25	4	24	4	13	2	12	2	98
OM-SS086	473,693.72	4,634,817.53	360	266	95	94	63	122	15	55	12	2	11	2	11	2	6	1	6	1	53
OM-SS087	473,776.10	4,634,718.74	1397	1165	231	405	256	538	66	259	47	10	37	5	29	5	14	2	13	2	115
OM-SS088	473,857.28	4,634,900.86	754	610	144	219	132	278	35	139	26	12	22	3	16	3	9	1	8	1	69
OM-SS089	473,812.53	4,634,942.44	1815	1601	214	473	377	783	86	306	49	5	35	4	28	5	13	2	11	2	110
OM-SS090	473,889.16	4,635,019.32	1853	1619	234	504	314	837	85	327	56	11	41	5	31	5	15	2	13	2	112
OM-SS091	473,863.61	4,635,111.46	1363	1094	269	371	223	540	60	226	45	4	39	6	35	6	18	2	13	2	145
OM-SS092	473,785.48	4,635,125.07	821	633	188	226	147	290	35	133	28	3	26	4	26	4	12	1	9	1	102
OM-SS093	474,293.31	4,635,542.35	1268	1058	210	359	244	484	60	230	40	10	33	4	25	4	13	2	11	1	107
OM-SS094	475,683.31	4,635,448.42	3343	3022	321	904	734	1430	164	600	95	11	63	7	38	7	18	2	15	2	157
RMP-001	475,317.00	4,636,526.00	2459	2151	308	674	494	1030	115	437	76	8	55	7	39	7	18	2	14	2	156
RMP-001_ZNTH	475,361.00	4,636,316.00	2417	2108	310	671	474	1010	114	435	75	9	54	7	40	7	19	2	14	2	156
RMP-002	475,415.00	4,636,754.00	2644	2258	386	679	509	1125	117	432	76	7	60	9	47	9	22	3	18	3	209
RMP-002_ZNTH	475,459.00	4,636,544.00	2424	2062	362	655	447	1015	111	416	73	7	57	8	47	8	23	3	17	3	191
RMP-003	474,835.00	4,635,577.00	1369	1087	282	385	253	488	60	240	46	10	38	6	33	6	18	2	15	2	151
RMP-003_ZNTH	474,879.00	4,635,367.00	1278	1006	272	369	222	451	57	230	45	11	38	5	31	6	17	2	13	2	146
RMP-004	474,728.00	4,635,570.00	1112	844	269	324	166	392	47	196	43	10	36	5	32	6	18	2	15	2	143
RMP-004_ZNTH	474,772.00	4,635,360.00	1035	781	254	309	149	358	45	190	39	10	33	5	30	6	17	2	13	2	135
RMP-005	474,989.00	4,635,541.00	4009	3683	326	1062	840	1830	192	715	107	13	67	8	41	7	19	2	17	3	150
RMP-005_ZNTH	475,033.00	4,635,331.00	3707	3396	311	1004	744	1695	181	681	95	13	64	7	39	6	18	2	15	3	144
RMP-006	474,869.00	4,635,430.00	3260	2947	314	909	698	1385	161	612	91	13	60	7	38	6	18	2	16	2	150
RMP-006_ZNTH	474,913.00	4,635,220.00	2965	2671	294	837	616	1260	150	565	81	12	56	7	35	6	17	2	14	3	142
RMP-007	474,904.00	4,635,316.00	3552	3195	357	945	766	1535	170	632	93	11	65	8	43	7	19	3	17	3	181
RMP-007_ZNTH	474,948.00	4,635,106.00	3250	2910	340	888	681	1390	161	591	88	11	60	8	42	7	20	3	17	3	170
RMP-008	475,490.00	4,637,291.00	3505	3027	477	955	735	1405	167	621	100	10	75	10	57	11	28	4	21	3	258
RMP-008_ZNTH	475,534.00	4,637,081.00	3290	2824	466	930	667	1295	159	605	98	10	74	11	57	10	28	3	22	3	247
RMP-009	475,482.00	4,637,373.00	1065	826	239	309	184	364	48	192	38	7	32	5	27	5	14	2	12	2	133
RMP-009_ZNTH	475,526.00	4,637,163.00	974	751	223	295	167	321	46	181	37	7	31	5	27	5	13	2	13	2	118
RMP-010	475,646.00	4,636,911.00	2131	1827	304	564	421	884	96	365	61	6	47	7	35	7	18	2	14	2	166
RMP-010_ZNTH	475,690.00	4,636,701.00	2016	1721	295	538	389	835	95	345	58	6	47	6	35	6	17	2	15	3	157

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
RMP-011	475,092.00	4,631,998.00	5014	4428	587	1467	1035	2020	256	954	163	14	122	15	79	13	33	4	25	4	278
RMP-011_ZNTH	475,136.00	4,631,788.00	4634	4099	535	1379	926	1880	235	909	149	13	112	14	72	12	32	3	22	3	252
RMP-012	475,056.00	4,632,028.00	3315	2886	429	941	653	1360	157	608	108	11	86	11	58	10	25	3	18	3	205
RMP-012_ZNTH	475,100.00	4,631,818.00	3113	2714	399	907	595	1275	152	590	102	10	79	11	53	9	23	3	17	3	192
RMP-013	475,165.00	4,632,235.00	3720	3394	326	1034	806	1605	188	689	106	11	72	8	42	7	18	2	15	2	148
RMP-013_ZNTH	475,209.00	4,632,025.00	3157	2800	357	856	584	1415	147	559	96	8	66	9	46	8	21	2	16	2	178
RMP-014	474,992.00	4,631,928.00	3342	2969	373	883	650	1495	153	575	96	9	71	9	50	8	22	3	17	3	181
RMP-014_ZNTH	475,036.00	4,631,718.00	3250	2963	286	909	683	1415	165	605	96	10	61	7	37	6	17	2	13	3	132
RMP-015	475,019.00	4,632,047.00	3124	2763	360	853	609	1360	146	553	96	11	73	10	49	8	21	3	16	2	168
RMP-015_ZNTH	475,063.00	4,631,837.00	2969	2633	337	830	562	1295	144	541	91	11	67	9	46	8	20	2	14	3	158
RMP-016	475,156.00	4,632,150.00	3249	2979	270	891	696	1435	161	595	92	11	62	7	36	6	15	2	12	2	119
RMP-016_ZNTH	475,200.00	4,631,940.00	3016	2770	246	844	625	1340	152	570	83	10	56	6	32	5	12	2	11	2	110
RMP-017	475,321.00	4,631,999.00	358	308	49	97	75	144	17	62	11	3	8	1	6	1	3	0	3	0	24
RMP-017_ZNTH	475,365.00	4,631,789.00	342	296	46	94	69	139	17	62	10	3	7	1	5	1	3	0	2	0	23
RMP-018	475,430.00	4,632,108.00	389	298	91	109	65	136	17	67	14	9	12	2	10	2	5	1	5	1	45
RMP-018_ZNTH	475,474.00	4,631,898.00	362	278	84	102	58	128	16	63	12	7	11	2	9	2	5	1	4	1	43
RMP-019	475,609.00	4,632,278.00	1768	1577	191	456	351	800	80	296	50	7	36	5	25	4	11	1	9	1	90
RMP-019_ZNTH	475,653.00	4,632,068.00	1691	1512	179	450	321	768	79	293	51	7	33	4	23	4	11	1	8	1	86
RMP-020	475,697.00	4,632,093.00	420	383	37	104	83	202	19	69	11	2	7	1	5	1	2	0	2	0	17
RMP-020_ZNTH	475,741.00	4,631,883.00	394	360	33	95	74	196	18	62	10	2	6	1	4	1	2	0	2	0	15
RMP-021	474,740.00	4,635,387.00	2973	2686	288	803	615	1310	142	537	82	11	56	7	36	6	17	2	15	2	135
RMP-021_ZNTH	474,784.00	4,635,177.00	2844	2570	274	783	565	1260	139	527	79	11	53	6	33	6	15	2	14	3	134
RMP-022	474,649.00	4,635,301.00	2933	2596	338	800	582	1265	137	525	87	11	62	8	43	7	20	3	18	3	163
RMP-022_ZNTH	474,693.00	4,635,091.00	2576	2276	300	711	493	1115	124	471	73	9	52	7	36	7	18	2	15	3	152
RMP-023	474,727.00	4,635,231.00	3962	3595	367	1106	894	1650	204	736	111	11	75	9	46	8	22	3	18	3	173
RMP-023_ZNTH	474,771.00	4,635,021.00	3748	3406	342	1066	821	1570	192	719	104	11	66	8	43	7	19	2	16	2	167
RMP-024	474,916.00	4,635,221.00	4069	3696	373	1107	900	1745	204	734	113	12	76	9	47	8	22	3	18	3	177
RMP-024_ZNTH	474,960.00	4,635,011.00	3695	3357	338	1028	789	1590	184	688	106	11	68	8	41	7	20	2	17	3	161
RMP-025	475,675.00	4,637,257.00	1617	1368	250	451	298	655	74	290	51	7	39	6	31	5	16	2	14	2	128
RMP-025_ZNTH	475,719.00	4,637,047.00	1571	1330	242	450	278	636	73	292	51	7	36	5	29	5	15	2	13	2	128
RMP-026	475,783.00	4,637,372.00	3109	2592	517	834	605	1230	138	522	97	8	79	12	65	12	32	4	25	3	278
RMP-026_ZNTH	475,827.00	4,637,162.00	3002	2514	488	819	562	1205	136	516	96	8	75	11	61	11	31	4	22	4	263
RMP-027	475,795.00	4,636,909.00	2244	1935	309	604	438	939	103	387	68	7	53	7	39	7	19	2	16	2	157
RMP-027_ZNTH	475,839.00	4,636,699.00	2060	1774	286	568	384	864	97	366	64	7	46	6	35	6	17	2	15	2	149
RMP-028	474,849.00	4,631,957.00	2572	2190	382	711	485	1055	116	449	85	9	68	10	52	9	24	3	18	3	188
RMP-028_ZNTH	474,893.00	4,631,747.00	2429	2069	360	686	434	1005	112	436	82	9	61	9	48	8	21	3	16	3	184
RMP-029	474,818.00	4,632,117.00	1598	1359	240	425	277	695	69	266	52	6	42	6	32	5	15	2	12	2	118
RMP-029_ZNTH	474,862.00	4,631,907.00	1477	1257	220	405	244	643	65	259	46	6	37	5	29	5	15	2	10	2	109
RMP-030	474,679.00	4,632,227.00	2493	2109	385	689	472	1010	112	433	82	10	69	10	53	9	23	3	17	2	191
RMP-030_ZNTH	474,723.00	4,632,017.00	2389	2036	354	676	436	980	112	428	80	9	63	9	47	8	21	2	15	2	177
RMP-031	474,853.00	4,632,261.00	2657	2306	350	725	507	1130	121	464	84	10	67	9	47	8	21	3	16	2	168
RMP-031_ZNTH	474,897.00	4,632,051.00	2584	2256	329	725	478	1105	123	468	82	10	61	8	44	8	20	2	14	3	160
RMP-032	475,034.00	4,632,228.00	3110	2774	336	885	682	1260	153	583	97	11	71	9	45	7	18	2	14	2	157
RMP-032_ZNTH	475,078.00	4,632,018.00	2894	2581	313	842	608	1180	146	559	89	11	65	8	41	7	18	2	12	2	148
RMP-033	475,130.00	4,632,339.00	2831	2532	299	798	589	1190	138	530	85	11	62	7	38	6	17	2	14	2	139
RMP-033_ZNTH	475,174.00	4,632,129.00	2717	2436	280	773	557	1150	135	510	84	10	56	7	37	6	16	2	13	3	131
RMP-034	475,363.00	4,632,391.00	513	393	120	153	81	174	23	96	19	9	17	2	13	3	7	1	7	1	60
RMP-034_ZNTH	475,407.00	4,632,181.00	498	386	112	150	77	174	24	92	19	9	15	2	13	2	6	1	6	1	57

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
RMP-035	475,449.00	4,632,510.00	983	765	218	297	151	348	44	185	38	8	33	5	26	5	14	2	12	2	112
RMP-035_ZNTH	475,493.00	4,632,300.00	960	748	212	291	148	336	42	186	36	9	31	4	23	4	13	2	10	2	115
RMP-036	475,514.00	4,632,706.00	2891	2523	369	834	615	1130	141	544	93	11	71	9	47	8	22	3	17	3	179
RMP-036_ZNTH	475,558.00	4,632,496.00	2758	2392	366	816	564	1065	137	533	94	11	72	8	44	7	20	3	17	2	181
RMP-037	475,734.00	4,632,571.00	3679	3294	386	994	706	1655	175	647	111	12	79	10	52	9	23	3	17	3	179
RMP-037_ZNTH	475,778.00	4,632,361.00	3403	3040	363	933	635	1530	163	607	106	12	74	9	49	8	20	3	15	3	171
RMP-038	479,078.00	4,637,081.00	581	455	125	161	101	210	25	101	19	9	16	2	14	3	7	1	6	1	66
RMP-038_ZNTH	479,122.00	4,636,871.00	590	462	128	168	97	214	25	106	20	10	17	2	14	2	7	1	6	1	66
RMP-039	472,835.00	4,633,082.00	97	26	71	19	4	11	1	6	3	0	5	1	7	1	5	1	7	1	44
RMP-039_ZNTH	472,879.00	4,632,872.00	107	32	75	22	5	13	2	7	5	0	5	1	7	1	5	1	6	1	47
RMP-040	472,914.00	4,633,244.00	415	311	105	105	75	143	17	64	13	4	11	2	10	2	6	1	7	1	61
RMP-040_ZNTH	472,958.00	4,633,034.00	397	294	103	101	71	133	16	59	15	4	11	2	10	2	5	1	6	1	62
RMP-041	473,240.00	4,633,092.00	633	557	76	134	116	317	25	86	14	2	10	1	8	2	5	1	5	1	41
RMP-041_ZNTH	473,284.00	4,632,882.00	591	517	74	127	109	291	24	81	12	2	9	1	8	2	5	1	5	1	40
RMP-042	473,064.00	4,633,038.00	2048	1641	406	540	376	780	88	332	66	7	52	8	47	9	24	3	21	3	233
RMP-042_ZNTH	473,108.00	4,632,828.00	1982	1579	403	539	347	747	87	334	63	7	52	8	47	8	25	3	21	3	230
RMP-043	472,835.00	4,633,082.00	5612	4820	792	1538	1120	2280	270	976	174	13	130	18	100	18	45	5	34	5	426
RMP-043_ZNTH	472,879.00	4,632,872.00	5171	4430	742	1463	997	2080	246	946	161	12	129	17	94	16	44	6	31	4	389
RMP-044	474,996.00	4,635,547.00	3575	3255	320	955	693	1650	167	652	93	13	67	7	36	6	19	2	16	2	152
RMP-045	474,980.00	4,635,537.00	4146	3792	354	1149	847	1845	200	791	110	13	75	9	40	7	20	2	17	3	169
RMP-046	474,966.00	4,635,520.00	3240	2938	303	881	628	1470	152	600	88	11	62	7	34	6	17	2	15	2	146
RMP-047	474,949.00	4,635,514.00	2909	2625	284	794	560	1310	135	539	81	11	56	7	33	6	16	2	14	2	138
RMP-048	474,948.00	4,635,492.00	3750	3419	331	1037	757	1670	181	708	104	13	70	8	37	7	17	2	16	3	159
RMP-049	474,932.00	4,635,481.00	3334	3027	307	920	679	1470	160	628	90	12	62	7	35	6	16	2	16	2	148
RMP-050	474,913.00	4,635,477.00	3060	2773	288	831	586	1395	142	567	83	12	59	7	33	6	15	2	14	2	138
RMP-051	474,909.00	4,635,454.00	2838	2545	293	781	535	1270	133	526	81	12	57	7	34	6	17	2	14	2	142
RMP-052	474,890.00	4,635,445.00	3215	2917	298	904	655	1400	157	618	88	12	60	7	35	6	16	2	14	2	144
RMP-053	474,875.00	4,635,423.00	3427	3135	292	929	686	1560	162	638	89	13	60	7	33	6	16	2	14	2	139
RMP-054	474,858.00	4,635,429.00	2937	2661	276	796	559	1345	136	541	81	12	55	6	32	5	16	2	13	2	132
RMP-055	474,842.00	4,635,423.00	3083	2798	285	853	614	1370	147	584	83	12	59	7	33	6	17	2	14	2	134
RMP-056	474,908.00	4,635,306.00	3107	2801	306	836	596	1410	144	564	87	10	61	7	34	6	17	2	15	2	152
RMP-057	474,900.00	4,635,288.00	2869	2585	283	789	570	1265	136	534	80	10	57	7	32	6	15	2	13	2	139
RMP-058	474,898.00	4,635,271.00	3165	2872	293	854	632	1425	148	578	89	10	61	7	32	6	16	2	14	2	142
RMP-059	474,903.00	4,635,251.00	3096	2791	305	850	619	1365	147	573	87	10	63	7	36	6	17	2	14	2	148
RMP-060	474,913.00	4,635,236.00	3652	3310	342	1004	747	1605	176	681	101	11	72	8	38	7	19	2	16	2	166
RMP-061	474,911.00	4,635,321.00	3002	2695	307	805	591	1340	140	542	82	10	59	7	34	6	17	2	15	2	154
RMP-062	474,914.00	4,635,208.00	3262	2946	316	868	622	1500	152	584	88	10	63	7	37	7	18	2	15	2	154
RMP-063	475,160.00	4,632,255.00	2001	1783	218	586	399	828	97	395	64	10	47	5	25	4	12	1	11	1	102
RMP-064	475,160.00	4,632,266.00	2023	1812	211	581	402	860	99	390	62	9	45	5	26	4	11	1	9	1	98
RMP-065	475,154.00	4,632,284.00	2346	2119	227	662	474	1015	114	448	68	10	50	5	27	4	12	2	10	2	106
RMP-066	475,151.00	4,632,306.00	2068	1837	231	594	405	870	99	399	65	11	48	5	27	5	13	2	10	2	110
RMP-067	475,143.00	4,632,310.00	2049	1828	221	586	395	877	98	395	62	10	45	5	26	5	12	2	10	2	106
RMP-068	475,130.00	4,632,342.00	1979	1767	212	566	393	838	96	380	60	10	45	5	25	4	11	1	10	1	100
RMP-069	475,163.00	4,632,226.00	1998	1751	247	593	401	790	99	397	64	9	48	6	28	5	12	2	11	2	125
RMP-070	475,159.00	4,632,205.00	1963	1738	224	568	378	824	95	378	63	10	47	5	26	4	12	2	11	1	106
RMP-071	475,154.00	4,632,188.00	2253	2013	240	645	448	954	110	434	67	10	53	6	28	5	12	2	11	2	113
RMP-072	475,146.00	4,632,171.00	2933	2654	279	814	580	1300	139	549	86	11	64	7	33	6	15	2	12	2	130
RMP-073	475,139.00	4,632,155.00	2449	2209	240	682	482	1080	116	460	71	10	52	6	29	5	13	2	10	2	112

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
RMP-074	475,147.00	4,632,143.00	2595	2347	249	726	513	1145	126	486	77	9	57	7	30	5	13	2	11	2	114
RMP-075	475,132.00	4,632,133.00	2448	2187	261	687	474	1065	115	460	74	10	57	7	32	5	13	2	11	2	122
RMP-076	475,122.00	4,632,122.00	2495	2229	266	709	498	1060	120	473	78	9	59	7	32	5	14	2	12	2	126
RMP-077	475,106.00	4,632,110.00	2434	2169	265	686	467	1055	115	456	77	10	57	7	32	5	14	2	11	2	126
RMP-078	475,092.00	4,632,095.00	2663	2366	297	759	515	1135	126	506	84	10	64	7	36	6	16	2	13	2	140
RMP-079	475,082.00	4,632,072.00	2271	2013	258	633	412	1005	106	420	70	9	54	6	31	5	13	2	11	2	124
RMP-080	475,038.00	4,632,055.00	2695	2350	345	768	478	1160	124	497	91	10	64	9	47	8	19	2	16	2	169
RMP-081	475,020.00	4,632,052.00	2711	2366	345	775	485	1160	124	506	91	10	65	9	46	7	19	2	15	2	169
RMP-082	475,004.00	4,632,050.00	3077	2696	381	861	547	1350	141	559	99	10	71	10	52	8	22	3	16	2	187
RMP-083	474,990.00	4,632,041.00	2831	2467	364	803	492	1230	129	521	95	10	67	9	49	8	21	2	16	2	179
RMP-084	475,029.00	4,632,041.00	2742	2386	357	793	499	1150	128	516	93	10	67	9	47	8	21	2	15	2	176
RMP-085	475,048.00	4,632,034.00	3112	2763	349	887	571	1360	146	586	101	10	68	9	46	7	20	2	15	2	169
RMP-086	475,060.00	4,632,022.00	2993	2659	334	868	559	1285	142	576	98	10	66	9	44	7	18	2	14	2	162
RMP-087	475,084.00	4,631,979.00	2087	1870	217	600	393	910	99	401	67	7	44	6	27	4	12	2	10	2	103
RM-SS001	475,791.71	4,631,806.58	234	157	77	67	33	68	9	38	9	2	10	1	10	2	6	1	4	1	41
RM-SS002	475,730.43	4,631,684.54	941	769	172	268	172	354	44	168	31	4	26	4	21	4	11	1	9	1	91
RM-SS003	475,677.28	4,631,803.64	864	722	142	236	164	343	40	150	25	4	21	3	18	3	9	1	8	1	75
RM-SS004	475,673.43	4,631,697.95	742	540	202	232	102	236	33	140	30	7	28	4	25	4	13	2	10	1	108
RM-SS005	475,677.29	4,631,804.63	283	250	33	69	51	134	13	45	7	1	5	1	4	1	2	0	2	0	18
RM-SS006	475,578.63	4,631,703.49	453	375	79	121	82	183	21	76	13	3	11	1	9	2	5	1	5	1	42
RM-SS007	475,169.98	4,631,710.23	238	180	58	65	41	82	10	39	8	2	7	1	7	1	4	1	4	1	32
RM-SS008	475,154.07	4,631,836.64	499	448	51	126	100	231	23	81	13	2	9	1	7	1	3	0	2	0	24
RM-SS009	475,276.56	4,631,820.78	143	114	30	36	21	61	6	21	5	0	4	1	4	1	2	0	2	0	16
RM-SS010	475,276.74	4,631,704.98	903	808	95	218	215	388	41	144	20	6	15	2	11	2	6	1	5	1	47
RM-SS011	475,367.68	4,631,711.43	618	499	118	175	114	227	28	110	20	5	17	2	15	3	7	1	6	1	62
RM-SS012	475,366.11	4,631,808.81	154	119	35	45	26	53	7	27	5	2	5	1	4	1	2	0	2	0	18
RM-SS013	475,464.83	4,631,809.14	754	572	182	233	111	253	35	144	29	8	27	4	22	4	12	2	10	2	93
RM-SS014	475,464.45	4,631,721.98	350	280	71	97	65	127	16	61	11	8	10	1	8	1	4	1	3	1	34
RM-SS015	475,766.54	4,631,608.81	385	303	82	107	69	138	17	66	13	3	11	2	10	2	5	1	5	1	44
RM-SS016	475,771.73	4,631,523.86	854	704	150	228	171	327	39	142	26	3	22	3	19	3	10	1	8	1	80
RM-SS017	475,659.17	4,631,508.14	941	740	201	279	143	346	41	177	34	5	28	4	24	4	12	2	11	2	110
RM-SS018	475,567.65	4,631,623.15	995	814	182	243	188	406	42	149	29	3	23	3	20	4	12	2	10	1	103
RM-SS019	475,559.34	4,631,523.69	592	472	120	169	101	218	26	107	20	2	16	2	14	2	7	1	7	1	67
RM-SS020	475,377.14	4,631,517.66	307	270	37	75	64	136	14	49	7	1	6	1	4	1	2	0	2	0	19
RM-SS021	475,472.31	4,631,619.25	291	224	67	81	50	102	12	51	10	5	9	1	7	1	4	1	4	1	35
RM-SS022	474,779.30	4,631,791.26	144	107	37	31	22	58	5	18	4	1	4	1	4	1	2	0	3	0	22
RM-SS023	474,904.31	4,631,814.59	1282	1076	207	327	252	524	56	206	38	4	29	4	24	4	13	2	11	2	115
RM-SS024	474,926.99	4,631,671.85	321	231	89	94	45	103	14	57	13	5	11	2	9	2	5	1	6	1	48
WR-01-021	475,124.73	4,636,503.38	2494	2135	359	711	458	1020	115	463	79	7	59	8	46	8	21	3	18	3	187
WR-01-022	475,033.46	4,636,503.70	1793	1532	260	498	369	701	84	321	58	6	41	5	31	5	15	2	13	2	141
WR-01-023	474,942.19	4,636,504.02	2001	1713	289	541	370	842	91	347	63	6	45	6	34	6	18	2	15	2	154
WR-01-024	474,759.65	4,636,504.66	1237	983	254	353	208	457	55	218	45	7	36	5	30	5	15	2	14	2	138
WR-01-025	474,576.28	4,636,505.31	941	733	209	263	148	349	40	161	35	8	27	4	24	4	13	2	12	2	114
WR-01-026	474,393.74	4,636,505.97	731	532	199	219	101	239	31	131	31	8	25	4	23	4	12	2	11	2	109
WR-01-027	474,392.10	4,636,048.54	1547	1283	264	392	278	649	65	245	46	7	36	5	31	5	16	2	15	2	146
WR-01-028	474,574.65	4,636,047.88	83	62	20	19	12	34	3	11	3	0	2	0	2	0	1	0	2	0	12
WR-01-029	474,757.20	4,636,047.24	1604	1321	283	417	290	653	69	258	52	5	37	5	33	6	18	2	15	2	160
WR-01-030	474,940.58	4,636,046.59	1872	1563	309	521	345	742	85	328	63	6	48	7	38	7	19	2	16	2	166

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
WR-01-031	475,123.14	4,636,045.95	1415	1026	389	405	213	462	58	238	55	8	48	7	46	8	24	3	20	3	221
WR-01-032	475,107.78	4,636,162.58	1618	1380	237	456	282	675	74	295	54	10	39	5	28	5	14	2	13	2	121
WR-01-033	475,305.69	4,636,045.31	977	863	114	272	201	405	48	179	31	11	19	2	13	2	6	1	5	1	53
WR-01-080	473,470.93	4,633,985.51	193	159	34	53	36	74	9	34	7	2	5	1	4	1	2	0	2	0	19
WR-01-081	473,581.83	4,633,776.18	112	69	43	29	15	30	4	16	4	1	4	1	5	1	3	1	4	1	24
WR-01-082	473,653.73	4,633,984.89	44	26	18	10	6	12	1	6	1	0	1	0	2	0	1	0	2	0	10
WR-01-083	473,718.92	4,633,814.39	1173	943	230	355	189	431	54	224	46	10	36	5	27	5	14	2	12	2	118
WR-01-084	473,836.54	4,633,984.27	3020	2737	283	812	636	1330	143	541	88	10	55	6	34	6	16	2	14	2	138
WR-01-085	473,913.38	4,633,852.40	120	23	96	23	3	8	1	7	4	0	6	1	9	2	6	1	8	1	61
WR-01-086	474,019.35	4,633,983.65	1270	1057	214	372	219	495	59	238	46	11	33	4	25	4	13	2	12	2	109
WR-01-087	474,175.73	4,633,727.90	421	292	129	95	70	143	15	52	12	0	10	2	14	3	9	1	9	1	79
WR-01-088	474,202.16	4,633,983.03	2154	1922	232	588	424	943	101	387	67	9	44	5	28	5	13	2	11	2	114
WR-01-089	474,384.97	4,633,982.41	2523	2272	251	685	554	1070	119	451	78	10	50	6	32	5	14	2	12	2	120
WR-01-090	474,567.77	4,633,981.79	1734	1512	222	475	326	744	79	308	55	10	39	5	28	5	12	2	10	2	111
WR-01-091	474,750.58	4,633,981.17	530	435	94	129	105	213	23	80	14	2	10	2	10	2	7	1	7	1	53
WR-01-092	474,933.39	4,633,980.55	100	76	25	25	17	36	4	15	3	1	2	0	2	0	2	0	3	0	13
WR-01-093	475,116.20	4,633,979.93	230	184	46	55	42	93	10	33	6	1	5	1	5	1	3	0	3	0	27
WR-01-094	475,299.00	4,633,979.31	2765	2392	373	776	580	1095	132	495	90	12	69	9	50	8	22	3	16	2	183
WR-01-095	475,481.81	4,633,978.69	400	278	123	97	56	140	15	54	12	2	11	2	14	3	8	1	7	1	74
WR-01-096	475,664.62	4,633,978.07	101	64	37	26	16	25	4	15	4	0	3	1	3	1	2	0	3	0	23
WR-01-097	474,200.61	4,633,526.01	37	31	6	9	9	14	2	6	1	0	1	0	1	0	0	0	0	0	3
WR-01-098	475,845.88	4,633,520.43	2259	1922	337	652	417	905	110	411	79	10	61	8	45	8	20	2	16	2	166
WR-01-099	475,663.07	4,633,521.05	1650	1375	275	489	286	641	78	310	60	11	48	6	35	6	16	2	13	2	136
WR-01-100	475,480.26	4,633,521.67	3583	3282	301	922	750	1655	170	612	95	13	65	7	38	6	18	2	14	2	136
WR-01-101	475,297.45	4,633,522.29	88	55	33	23	12	25	3	12	3	1	3	1	4	1	3	0	3	0	18
WR-01-102	475,114.65	4,633,522.91	199	155	44	50	35	76	8	30	6	1	5	1	5	1	3	0	3	0	25
WR-01-104	474,749.03	4,633,524.15	337	259	79	94	58	117	15	57	12	11	10	1	8	2	4	1	4	1	37
WR-01-105	474,566.22	4,633,524.77	419	278	141	95	69	133	15	49	13	0	12	2	16	3	11	2	10	1	83
WR-01-106	474,383.42	4,633,525.39	621	507	114	178	111	234	29	113	22	9	17	2	13	2	7	1	6	1	56
WR-01-107	474,200.61	4,633,526.01	187	144	43	44	36	70	8	26	5	2	5	1	4	1	3	0	3	0	24
WR-01-108	474,017.80	4,633,526.63	2327	2066	261	636	457	1010	113	417	69	10	49	6	31	5	16	2	14	2	126
WR-01-109	473,834.99	4,633,527.25	754	583	171	234	114	259	35	145	31	10	27	3	20	4	11	1	10	2	85
WR-01-110	473,652.19	4,633,527.87	1122	914	208	321	178	444	52	201	39	11	31	4	24	4	13	2	12	2	105
WR-01-111	473,469.38	4,633,528.49	701	461	241	240	74	178	31	142	36	10	35	5	27	5	15	2	14	2	126
WR-01-112	474,747.48	4,633,067.13	157	108	49	38	24	51	6	22	5	1	4	1	5	1	4	0	4	1	29
WR-01-113	474,930.29	4,633,066.51	343	273	70	76	69	136	14	45	8	1	8	1	7	1	5	1	5	1	41
WR-01-114	475,113.10	4,633,065.91	3087	2732	355	815	646	1325	147	526	89	12	68	8	46	8	21	2	16	2	171
WR-01-115	475,295.91	4,633,065.28	3222	2826	396	857	608	1425	148	547	98	13	78	10	54	9	24	3	17	2	187
WR-01-116	475,372.50	4,633,269.15	3183	2769	414	858	659	1315	150	547	98	12	76	10	54	10	25	3	18	3	204
WR-01-117	475,478.71	4,633,064.65	2423	2051	371	674	411	1025	111	421	83	10	69	9	50	9	23	3	16	2	182
WR-01-118	475,661.52	4,633,064.04	2424	1962	462	713	419	904	112	435	93	11	84	11	62	11	28	3	21	3	228
WR-01-119	475,844.33	4,633,063.42	134	85	49	35	20	37	5	19	5	1	5	1	6	1	4	1	3	0	28
WR-01-120	475,843.30	4,632,758.74	2834	2458	376	688	385	1445	115	428	85	11	70	9	50	9	23	3	18	3	180
WR-01-121	475,660.49	4,632,759.36	2937	2567	370	804	605	1215	140	516	92	11	73	9	48	8	22	3	17	2	177
WR-01-122	475,547.43	4,633,006.70	2154	1840	314	621	415	853	108	393	72	10	57	7	41	7	19	2	15	2	153
WR-01-123	475,477.68	4,632,759.98	2953	2593	360	797	654	1195	143	514	88	11	68	8	45	8	21	3	16	2	179
WR-01-124	475,445.35	4,632,925.91	2404	2089	314	644	434	1060	111	408	76	11	60	8	41	7	19	2	15	2	151
WR-01-125	475,312.09	4,632,884.08	2652	2347	306	717	546	1130	127	462	82	10	63	8	39	7	18	2	14	2	144

PNTID	Easting	Northing	Total REE	Light REE	Heavy REE	Magnet REE	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y
WR-01-126	475,174.81	4,632,840.18	2771	2468	303	709	561	1245	128	455	79	11	59	7	40	7	18	2	14	2	145
WR-01-127	475,069.16	4,632,796.29	2114	1852	263	561	385	946	98	357	65	9	51	6	34	6	16	2	12	2	124
WR-01-128	474,955.05	4,632,732.04	2711	2425	286	723	586	1160	131	471	77	10	58	7	37	6	17	2	13	2	134
WR-01-129	474,745.91	4,632,610.15	2548	2209	339	682	471	1110	117	433	79	10	63	8	45	8	21	2	17	2	163
WR-01-130	474,928.72	4,632,609.52	2200	1949	250	577	406	1005	102	371	65	10	48	6	33	6	15	2	12	2	118
WR-01-131	475,111.53	4,632,608.89	2635	2377	257	695	572	1150	126	453	76	10	55	6	33	6	14	2	11	2	118
WR-01-132	475,294.33	4,632,608.26	1987	1747	240	544	393	843	98	354	59	10	44	5	29	5	14	2	12	2	117
WR-01-133	475,477.14	4,632,607.64	1506	1336	171	424	290	648	76	274	48	10	33	4	22	4	10	1	8	1	78
WR-01-134	475,476.36	4,632,379.13	470	407	63	101	104	210	20	62	10	1	8	1	7	1	4	1	4	1	35
WR-01-135	475,293.55	4,632,379.76	1281	1099	182	322	253	551	56	203	36	8	30	4	23	4	11	1	9	1	91
WR-01-136	475,110.74	4,632,380.38	633	450	183	224	70	183	29	133	36	8	31	4	22	4	11	1	9	1	90
WR-01-137	474,927.93	4,632,381.01	2189	1892	297	606	377	957	97	391	70	9	56	7	41	7	18	2	13	2	142
WR-01-138	474,745.13	4,632,381.64	103	39	65	26	8	13	2	11	5	0	6	1	7	1	4	1	5	1	38

Appendix F – American Assay Labs Certifications

ilac-MRA

IAS INTERNATIONAL ACCREDITATION SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

AMERICAN ASSAY LABORATORIES INC.
1500 GLENDALE AVENUE
SPARKS, NEVADA 89431, U.S.A.

Testing Laboratory TL-536

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date December 2, 2020

Raj Nathan

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.
3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

AMERICAN ASSAY LABORATORIES INC.

www.aallabs.com

Contact Name Dr. Joshua Robert Zimmerman **Contact Phone** +1-775-356-0606

Accredited to ISO/IEC 17025:2017 *Effective Date December 2, 2020*

Environmental	
ANP	EPA # 600/2-78-054 Acid neutralization potential
AGP	EPA # 600/2-78-054 Acid generation potential
Paste pH	EPA # 600/2-78-054 Paste pH
SEM	EPA # 600/r-02-070 Determination of minerals/ores by SEM analysis
XRD	EPA # 600/2-78-054 Determination of minerals/ores by X-ray diffraction
Chemical	
Sample preparation	Basic sample preparation
Au	Fire assay
Multi element	1 – Acid digestion 2 – Acid digestion (aqua regia) 3 – Acid digestion 4 – Acid digestion Sodium peroxide fusion Cyanide leaching

Appendix G – ALS Lab Certifications

Certificate of Accreditation

Certificat d'accréditation

ALS Limited

ALS Vancouver

2103 Dollarton Hwy, North Vancouver, BC, V7H 0A7

having been assessed by the Standards Council of Canada (SCC) and found to conform with the requirements of ISO/IEC 17025:2017 and the conditions for accreditation established by SCC is hereby recognized as an

ACCREDITED TESTING LABORATORY

for the specific tests or types of tests listed in the scope of accreditation approved by SCC and found on the SCC website at www.scc.ca.

ayant fait l'objet d'une évaluation du Conseil canadien des normes (CCN), et ayant été trouvé conforme aux exigences énoncées dans ISO/IEC 17025:2017 et aux conditions d'accréditation établies par le CCN, est de ce fait reconnu comme étant un

LABORATOIRE D'ESSAIS ACCRÉDITÉ

pour les essais ou types d'essais énumérés dans la portée d'accréditation approuvée par le CCN et figurant dans le site Web du CCN au www.ccn.ca.

SCC file number: / Dossier du CCN nº : 15722

Initial accreditation date: / Date de la première accréditation :2005-05-18

Vice-President – Accreditation Services / Vice-président – Services d'accréditation

Issued on: / Délivré le :2022-07-26

The validity of this certificate, including the date of last re-accreditation and its expiry can be confirmed by the accompanying Scope of Accreditation document in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. The accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF communiqué dated April 2017).

Pour vérifier la validité du présent certificat, y compris la date de la dernière réaccréditation et la date d'expiration du certificat, consulter la portée d'accréditation qui se trouve dans le répertoire des laboratoires accrédités dans le site Web du CCN au www.ccn.ca.

Ce laboratoire est accrédité conformément à la Norme internationale reconnue ISO/IEC 17025:2017. Cette accréditation démontre la compétence technique d'un organisme pour une portée définie et l'exploitation d'un système de management de la qualité de laboratoire (cf. communiqué conjoint ISO-ILAC-IAF date d'avril 2017).

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TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Legal Name of Accredited Laboratory:	**ALS Limited**
Location Name or Operating as (if applicable):	ALS Vancouver
Contact Name:	Thomas Hojan
Address:	2103 Dollarton Hwy, North Vancouver, BC V7H 0A7
Telephone:	604 984 0221
Fax:	604 984 0218
Website:	www.alsglobal.com
Email:	Thomas.Hojan@alsglobal.com

SCC File Number:	15722
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Chemical/Physical
Program Specialty Area:	Mineral Analysis
Initial Accreditation:	2005-05-18
Most Recent Accreditation:	2022-07-26
Accreditation Valid to:	2025-05-18

SCC Group Accreditation:
This laboratory is a part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.

- ALS USA Inc., ALS Reno
- ALS Limited, ALS Val d'Or
- ALS Geochemistry Laos, ALS Vientiane

- ALS Peru S.A.
- ALS Patagonia S.A.
- Australian Laboratory Services Pty Ltd., ALS Romania SRL
- ALS Laboratuar Hizmetleri Ltd. Sti., Izmir, Turkey

The physical sample preparation involving accredited test method for Minerals Analysis as listed on the Scope of Accreditation may be performed at the ALS Ltd. North Vancouver location or at off-site sample preparation laboratories that are monitored regularly for quality control and quality assurance practices:

- ALS Minerals - Unit 150 - 2155 Dollarton Hwy, North Vancouver, BC V7H 2B2 Canada
- ALS Minerals - 2912 Molitor Street, Terrace, British Columbia V8G 3A4 Canada
- ALS Minerals - 3 Coronation Drive, PO Box 1919, Yellowknife, NWT X1A 2P4 Canada
- ALS Minerals - 78 Mt. Sima Rd Whitehorse, YK Y1A 0A8 Canada
- ALS Minerals - 2953 Shuswap Drive, Kamloops, BC V2H 1S9 Canada
- ALS Minerals - Jazmin 1140, e/R, Michel y Amapola, Sector Reforma Colonia San Carlos, Guadalajara, Jalisco 44460 Mexico
- ALS Minerals – Magnolia #16, Esq. Laurles Col. Libertad, Hermosillo, Sonora 83130 Mexico
- ALS Minerals - Avenida de las Industrias No 6500, Col. Zona Industrial Nombre de Dios, Chihuahua, Chihuahua 31156 Mexico
- ALS Minerals - Transito Pesado S/n, Bodega 100, 200, 300 y 400, Frente a Central Camionera, Col. Lomas de la Isabelica, Zacatecas, Zacatecas 98099 Mexico
- ALS Minerals - 19715 96th Ave, Unit 115, Langley, BC, V1M 3C9, Canada

Remarque: La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.
Note: This scope of accreditation is also available in French as a separately issued document.

METALLIC ORES AND PRODUCTS

Mineral Analysis Testing

Mineral Assaying

AA45	Ag, Cu, Pb and Zn - Determination of Base Metals Using AAS Following an Aqua Regia Digestion
AA46	Ag, Cu, Pb, Zn and Mo - Determination of Ores and High Grade Materials Using AAS Following an Aqua Regia Digestion
AA61	Ag, Co, Cu, Ni, Pb and Zn - Determination of Base Metals Using AAS Following a Four Acid Digestion
AA62	Ag, Co, Cu, Mo, Ni, Pb and Zn - Determination of Ores and High Grade Materials Using AAS Following a Four Acid Digestion
Au/Ag-GRA	Determination of Au and Ag by Lead Collection Fire Assay and Gravimetric Finish
Au-AA	Determination of Au by Lead Collection Fire Assay and Atomic Absorption Spectrometry
C-IR07	C - Determination of Total C by Leco Furnace and Infrared Spectroscopy.
ICP81	Al, Co, Cu, Fe, Mg, Mn, Ni, Pb, S, and Zn by Sodium Peroxide Fusion and ICP-AES
ME-ICP06	SiO_2, Al_2O_3, Fe_2O_3, CaO, MgO, Na_2O, K_2O, Cr_2O_3, TiO_2, MnO, P_2O_5, SrO, BaO, Total - Determination of Major Oxides by Lithium Metaborate/Lithium Tetraborate Fusion and ICP-AES.
ME-ICP41	Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Ti, Tl, U, V, W, Zn) Determination by Aqua Regia Digestion and ICP-AES.

ME-ICP41a	Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, Hf, Hg, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn) – Determination of Low Grade Ores by Aqua Regia Digestion and ICP-AES.
ME-ICP61	Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by 4-Acid Digestion and ICP-AES
ME-ICP61a	Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, Hf, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr – Determination of Low Grade Ores by Four-Acid Digestion and ICP-AES.
ME-MS41	Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by Aqua Regia Digestion and ICP-AES and ICP-MS.
Hg-MS42	Trace Mercury Analysis by Aqua Regia Digest and ICP-MS.
ME-MS41L	Super Trace Multi-Element (Ag, Au, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Pd, Pt, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by Aqua Regia Digestion and ICP-AES and ICP-MS.
ME-MS61	Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by 4 Acid Digestion and ICP-AES and ICP-MS.
ME-MS61L	Super Trace Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by Four Acid Digestion and ICP-AES and ICP-MS.
ME-MS81	Ba, Ce, Cr, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Rb, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zr – Determination of Rare Earth Elements by Lithium Borate Fusion and ICP-MS.
ME-XRF06	SiO_2, Al_2O_3, Fe_2O_3, CaO, MgO, Na_2O, K_2O, Cr_2O_3, TiO_2, MnO, P_2O_5, SrO, BaO, Total – Determination of Major Oxides by Lithium Metaborate/Lithium Tetraborate Fusion and XRF.
ME-XRF26	SiO_2, Al_2O_3, Fe_2O_3, CaO, MgO, Na_2O, K_2O, Cr_2O_3, TiO_2, MnO, P_2O_5, SrO, BaO, Total – Determination of Major Oxides by Lithium Metaborate/Lithium Tetraborate Fusion and XRF.
OA-GRA05	LOI – Loss on Ignition
OA-GRA05x	LOI – Loss on Ignition.
OA-GRA06	LOI – Loss on Ignition.
OG46	Ag, Cu, Mo, Pb and Zn - Determination of Ores and High Grade Material Using ICP-AES Following an Aqua Regia Digestion
OG62	Ag, Cu, Co, Mo, Ni, Pb and Zn-Determination of Ores and High Grade Material Using ICP-AES Following a Four-Acid Digestion
PGM-ICP	Determination of Au, Pt and Pd by Lead Collection Fire Assay and ICP-AES
S-IR08	S – Determination of Total S by Leco Furnace and Infrared Spectroscopy.

Number of Scope Listings: 28

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

Elias Rafoul
Vice-President, Accreditation Services
Published on: 2022-07-29

Canadian Association for Laboratory Accreditation Inc.

CALA

Certificate of Accreditation

ALS Environmental (Vancouver)
ALS Canada Ltd.
8081 Lougheed Highway, Suite 100
Burnaby, British Columbia

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

Accreditation No.: A1719
Issued On: March 18, 2021
Accreditation Date: January 3, 2005
Expiry Date: September 16, 2023

ilac-MRA CALA

Andrew M. Adams
President & CEO

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Appendix H – SMC TEST® REPORT

SMC TEST® REPORT

Nagrom

Tested by: ALS Metallurgy WA

Perth, West Australia

Prepared by: Matt Weier

JKTech Job No: 22001/P104
Testing Date: November 2022

Contents

Appendices

List Of Figures

List Of Tables

1 Executive Summary

1.1 SMC Results Summary

Table 1 - SMC Test® Results

Sample Designation	*DWi* (kWh/m^3)	*DWi* (%)	*Mi* Parameters (kWh/t)			SG
			Mia	Mih	Mic	
Halleck Creek Composite 2022	3.5	14.0	11.4	7.4	3.8	2.71

Table 2 – Parameters derived from the SMC Test® Results

Sample Designation	A	b	A*b	t_a	SCSE (kWh/t)
Halleck Creek Composite 2022	70.3	1.12	78.7	0.75	7.46

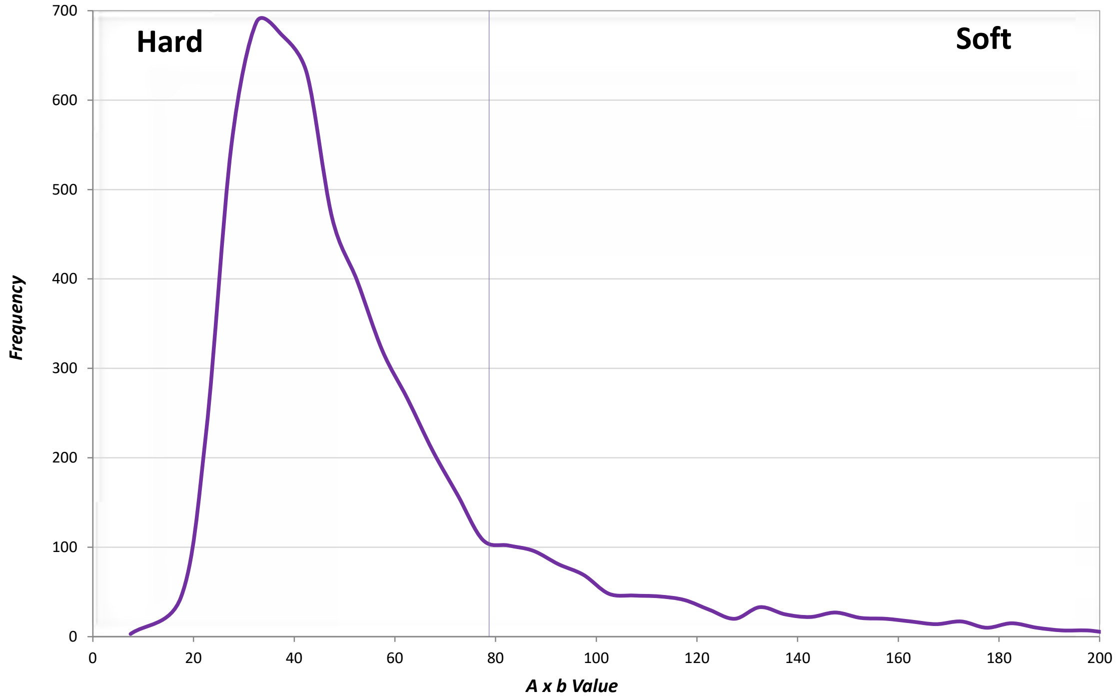

*Figure 1 - Frequency Distribution of A*b in the JKTech Database*

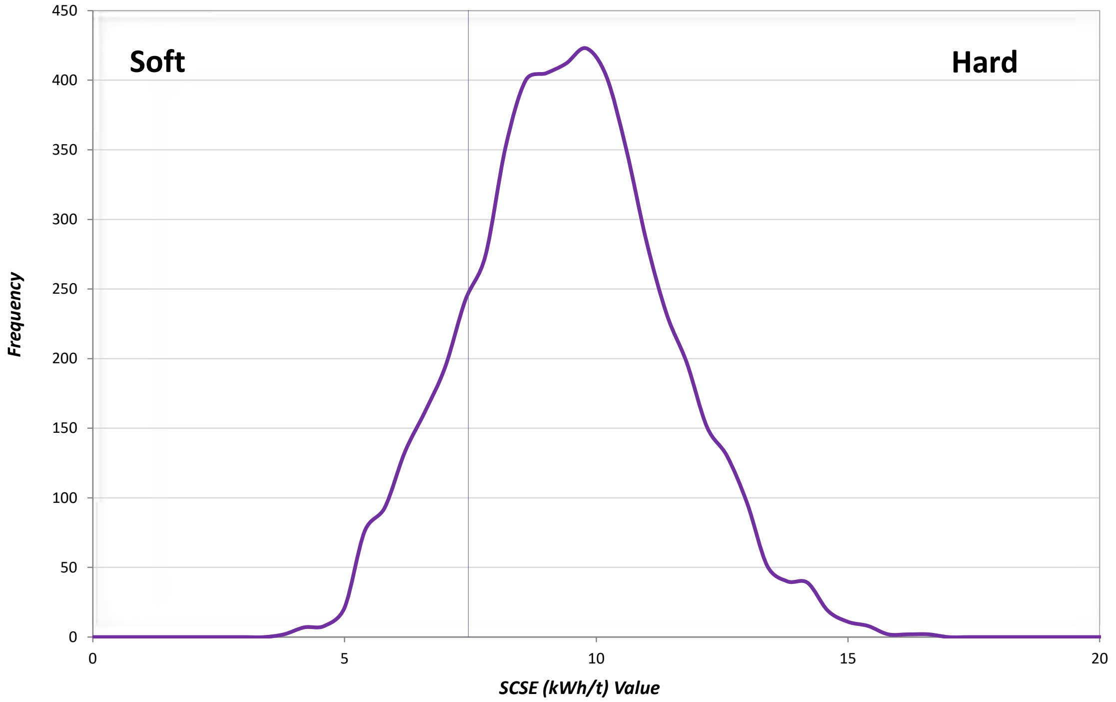

Figure 2 - Frequency Distribution of SCSE in the JKTech Database

2 Introduction

SMC data for one sample from Nagrom Project were received from ALS Metallurgy WA on December 01, 2022, by JKTech for SMC test analysis. The sample was identified as Halleck Creek Composite 2022. The data were analysed to determine the JKSimMet and SMC Test comminution parameters. SMC Test results were forwarded to SMC Testing Pty Ltd for the analysis of the SMC Test data. Analysis and reporting were completed on December 02, 2022.

3 The SMC Test®

3.1 Introduction

The standard JK Drop-Weight test provides ore specific parameters for use in the JKSimMet Mineral Processing Simulator software. In JKSimMet, these parameters are combined with equipment details and operating conditions to analyse and/or predict SAG/autogenous mill performance. The same test procedure also provides ore type characterisation for the JKSimMet crusher model.

The SMC Test was developed by Steve Morrell of SMC Testing Pty Ltd (SMCT). The test provides a cost effective means of obtaining these parameters, in addition to a range of other power-based comminution parameters, from drill core or in situations where limited quantities of material are available. The ore specific parameters have been calculated from the test results and are supplied to Nagrom in this report as part of the standard procedure

3.2 General Description and Test Background

The SMC Test® was originally designed for the breakage characterisation of drill core and it generates a relationship between input energy (kWh/t) and the percent of broken product passing a specified sieve size. The results are used to determine the so-called JK Drop-Weight index (DWi), which is a measure of the strength of the rock when broken under impact conditions and has the units kWh/m^3. The DWi is directly related to the JK rock breakage parameters A and b and hence can be used to estimate the values of these parameters as well as being correlated with the JK abrasion parameter - t_a. For crusher modelling the t_{10}-E_{cs} matrix can also be derived. This is done by using the size-by-size $A*b$ values that are used in the SMC Test® data analysis (see below) to estimate the t_{10}-E_{cs} values for each of the relevant size fractions in the crusher model matrix.

For power-based calculations, (see APPENDIX B), the SMC Test® provides the comminution parameters M_{ia}, M_{ih} and M_{ic}. M_{ia} is the work index for the grinding of coarser particles (> 750 µm) in tumbling mills such as autogenous (AG), semi-autogenous (SAG), rod and ball mills. M_{ih} is the work index for the grinding in High Pressure Grinding Rolls (HPGR) and M_{ic} for size reduction in conventional crushers.

The SMC Test® is a precision test, which uses particles that are either cut from drill core using a diamond saw to achieve close size replication or else selected from crushed material so that particle mass variation is controlled within a prescribed range. The particles are then broken at a number of prescribed impact energies. The high degree of control imposed on both the size of particles and the breakage energies used, means that the test is largely free of the repeatability problems associated with tumbling-mill based tests. Such tests usually suffer from variations in feed size (which is not closely controlled) and energy input, often assumed to be constant when in reality it can be highly variable (Levin, 1989).

The relationship between the DWi and the JK rock breakage parameters makes use of the size-by-size nature of rock strength that is often apparent from the results of full JK Drop-Weight tests. The effect is illustrated in Figure 3, which plots the normalized values of A*b against particle size. This figure also shows how the gradient of these plots varies across the full range of rock types tested. In the case of a conventional JK Drop-Weight test, these values are effectively averaged and a mean value of A and b is reported. The SMC Test® uses a single size and makes use of relationships such as that shown in Figure 3 to predict the A and b of the particle size that has the same value as the mean for a JK full Drop-Weight test.

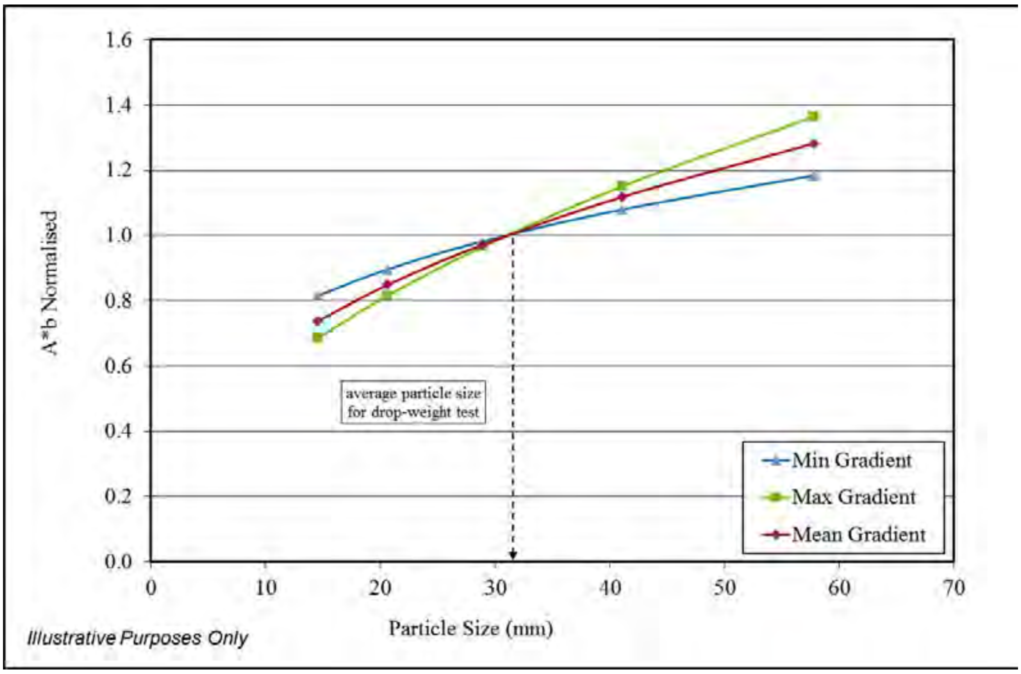

*Figure 3 – Relationship between Particle Size and A*b*

3.3 The Test Procedure

In the SMC Test®, five sets of 20 particles are broken, each set at a different specific energy level, using a JK Drop-Weight tester. The breakage products are screened at a sieve size selected to provide a direct measurement of the t_{10} value.

The test calls for a prescribed target average volume for the particles, with the target being chosen to be equivalent to the mean volume of particles in one of the standard JK Drop-Weight test size fractions.

The rest height of the drop-head (gap) is recorded after breakage of each particle to allow for a correction to the drop energy. After breaking all 20 particles in a set, the broken product is sieved at an aperture size, one tenth of the original particle size. Thus, the percent passing mass gives a direct reading of the t_{10} value for breakage at that energy level.

There are two alternative methods of preparing the particle sets for breakage testing: the particle selection method and the cut core method. The particle selection method is the most commonly used as it is generally less time consuming. The cut core method requires less material, so tends to be used as a fallback method, only when necessary to cope with restricted sample availability.

3.3.1 Particle Selection Method

For the particle selection method, the test is carried out on material in one of three alternative size fractions: -31.5+26.5, -22.4+19 or -16+13.2 mm. The largest size fraction is preferred but requires more material.

In the particle selection method, particles are chosen so that their individual masses lie within ±30% of the target mass and the mean mass for each set of 20 lies within ±10% of the target mass. A typical set of particles is shown in Figure 4.

Figure 4 – A Typical Set of Particles for Breakage (Particle Selection Method)

Before commencing breakage tests on the particles, the ore density is determined by first weighing a representative sample of particles in air and then in water.

3.3.2 Cut Core Method

The cut core method uses cut pieces of quartered (slivered) drill core. Whole core or half core can be used, but when received in this form it needs to be first quartered as a preliminary step in the procedure. Once quartered, any broken or tapered ends of the quartered lengths are cut, to square them off. Before the lengths of quartered core are cut to produce the pieces for testing, each one is weighed in air and then in water, to obtain a density measurement and a measure of its mass per unit length.

The size fraction targeted when the cut core method is used depends on the original core diameter. The target size fraction is selected to ensure that pieces of the correct volume will have “chunky” rather than “slabby” proportions.

Having measured the density of the core, the target volume can be translated into a target mass and with the average mass per unit length also known, an average cutting interval can be determined for the core.

Sufficient pieces of the quartered core are cut to generate 100 particles. These are then divided into the five sets of 20 and broken in the JK Drop-Weight tester at the five different energy levels. Within each set, the three possible orientations of the particles are equally represented (as far as possible, given that there are 20 particles). The orientations prescribed for testing are shown in Figure 5.

Figure 5 – Orientations of Pieces for Breakage (Cut Core Method)

The cut core method cannot be used for cores with diameters exceeding 70 mm, where the particle masses would be too large to achieve the highest prescribed energy level.

3.4 SMC Test® Results

The SMC Test® results for the Halleck Creek Composite 2022 sample from Nagrom Project are given in Table 3. This table includes the average rock density and the DWi (Drop-Weight index) that is the direct result of the test procedure. The values determined for the M_{ia}, M_{ih} and M_{ic} parameters developed by SMCT are also presented in this table. The M_{ia} parameter represents the coarse particle component (down to 750 µm), of the overall comminution energy and can be used together with the M_{ib} (fine particle component) to estimate the total energy requirements of a conventional comminution circuit. The use of these parameters is explained further in APPENDIX B. The derived estimates of parameters *A*, *b* and t_a that are required for JKSimMet comminution modelling are given in Table 4.

Also included in the derived results are the SAG Circuit Specific Energy (SCSE) values. The SCSE value is derived from simulations of a “standard” circuit comprising a SAG mill in closed circuit with a pebble crusher. This allows *A*b* values to be described in a more meaningful form. SCSE is described in detail in APPENDIX A.

In the case of the Halleck Creek Composite 2022 sample from Nagrom Project, the *A* and *b* estimates are based on a correlation using the database of all results so far accumulated by SMCT.

Table 3 - SMC Test® Results

Sample Designation	*DWi* (kWh/m^3)	*DWi* (%)	***Mi* Parameters (kWh/t)**			SG
			Mia	***Mih***	***Mic***	
Halleck Creek Composite 2022	3.45	14	11.4	7.4	3.8	2.71

For more details on how the M_{ia}, M_{ih} and M_{ic} parameters are derived and used, see APPENDIX B or go to the SMC Testing website at http://www.smctesting.com/about.

Table 4 – Parameters derived from the SMC Test® Results

Sample Designation	*A*	*b*	t_a	*SCSE (kWh/t)*
Halleck Creek Composite 2022	70.3	1.12	0.75	7.46

The influence of particle size on the specific comminution energy needed to achieve a particular t_{10} value can also be inferred from the SMC Test® results. The energy requirements for five particle sizes, each crushed to three different t_{10} values, are presented in Table 5.

Table 5 – Crusher Simulation Model Specific Energy Matrix

Sample Designation	Particle Size (mm)														
	14.5			20.6			28.9			41.1			57.8		
	t_{10} Values (%) for Given Specific Energies in kWh/t														
	10	20	30	10	20	30	10	20	30	10	20	30	10	20	30
Halleck Creek Composite 2022	0.18	0.39	0.65	0.16	0.34	0.56	0.14	0.30	0.49	0.12	0.26	0.42	0.10	0.22	0.37

The SMC Test® database now contains over 40,000 test results on samples representing more than 1300 different deposits worldwide.

Around 99% of the DWi values lie in the range 0.5 to 14.0 kWh/m^3, with soft ores being at the low end of this range and hard ores at the high end.

A cumulative graph of DWi values from the SMC Test® Database is shown in Figure 6 below. This graph can be used to compare the DWi of the material from Nagrom Project, with the entire population of ores in the SMCT database. The figures on the y-axis of the graph represent the percentages of all ores tested that are softer than the x-axis (DWi) value selected.

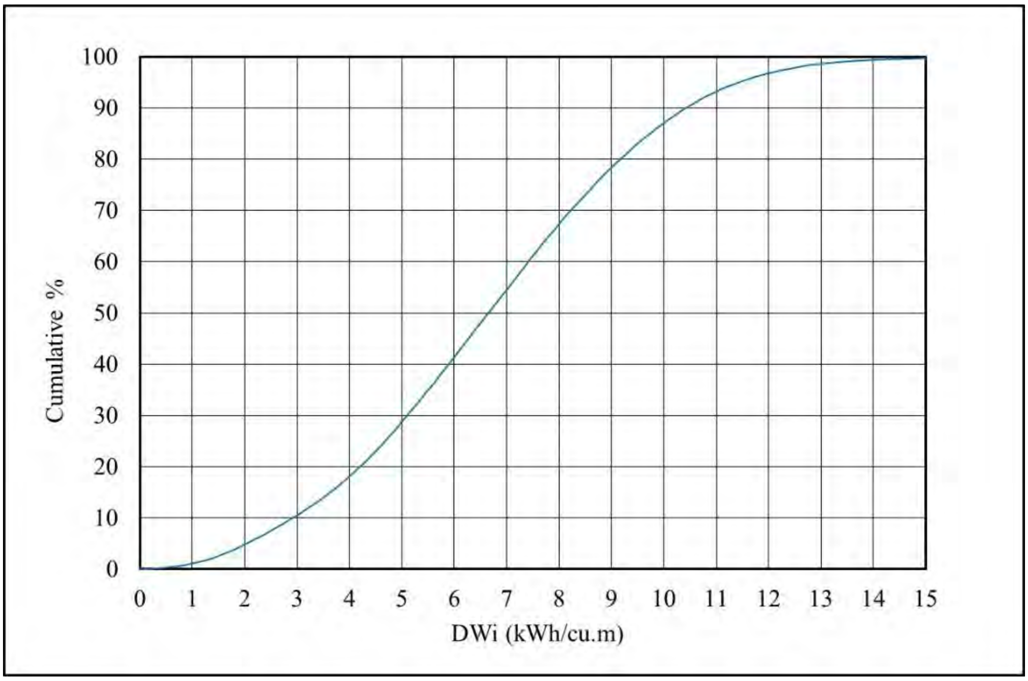

Figure 6 – Cumulative Distribution of DWi Values in SMCT Database

A further cumulative distribution graph is provided in Figure 7 to allow a comparison of the M_{ia}, M_{ih} and M_{ic} values obtained for the Nagrom Project material, with the entire population of values for these parameters contained in the SMCT database.

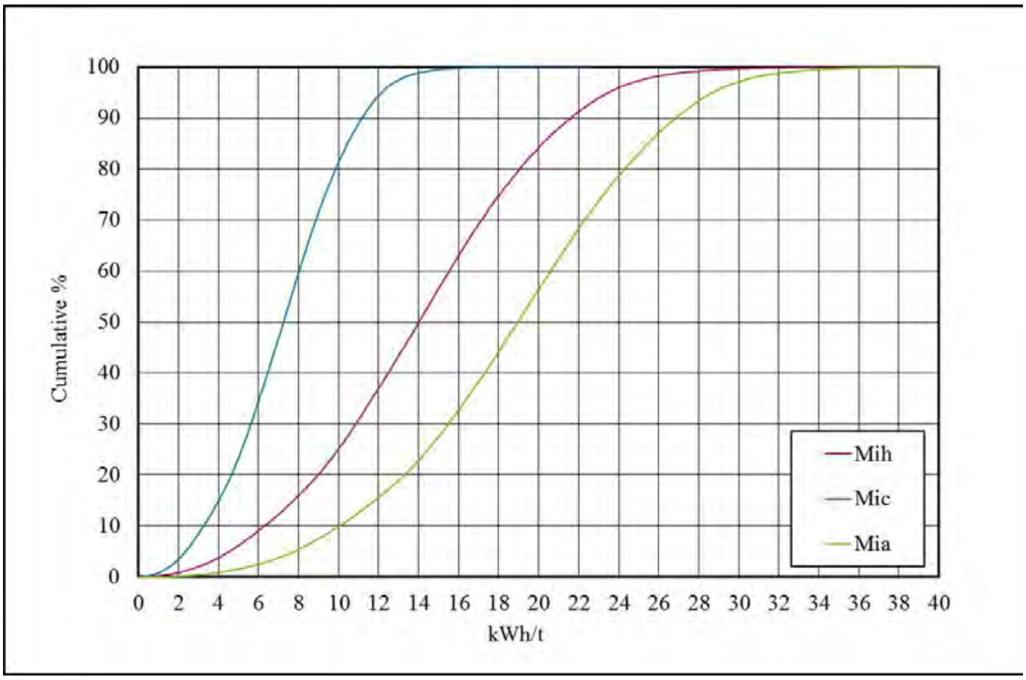

Figure 7 - Cumulative Distribution of Mia, Mih and Mic Values in the SMCT Database

The value of *A*b*, which is also a measure of resistance to impact breakage, is calculated and presented in Table 6, which also gives a comparison to the population of samples in the JKTech database, with the percent of samples present in the JKTech database that are softer. Note that in contrast to the DWi, a high value of *A*b* means that an ore is soft whilst a low value means that it is hard.

*Table 6 – Derived Values for A*b, ta and SCSE*

Sample Designation	*A*b*		t_a		*SCSE (kWh/t)*	
	Value	**%**	**Value**	**%**	**Value**	**%**
Halleck Creek Composite 2022	78.7	17.6	0.75	21.5	7.46	16.5

In Figure 8 and Figure 9 below, histogram style frequency distributions for the *A*b* values and for the SCSE values in the JKTech JKDW database are shown respectively.

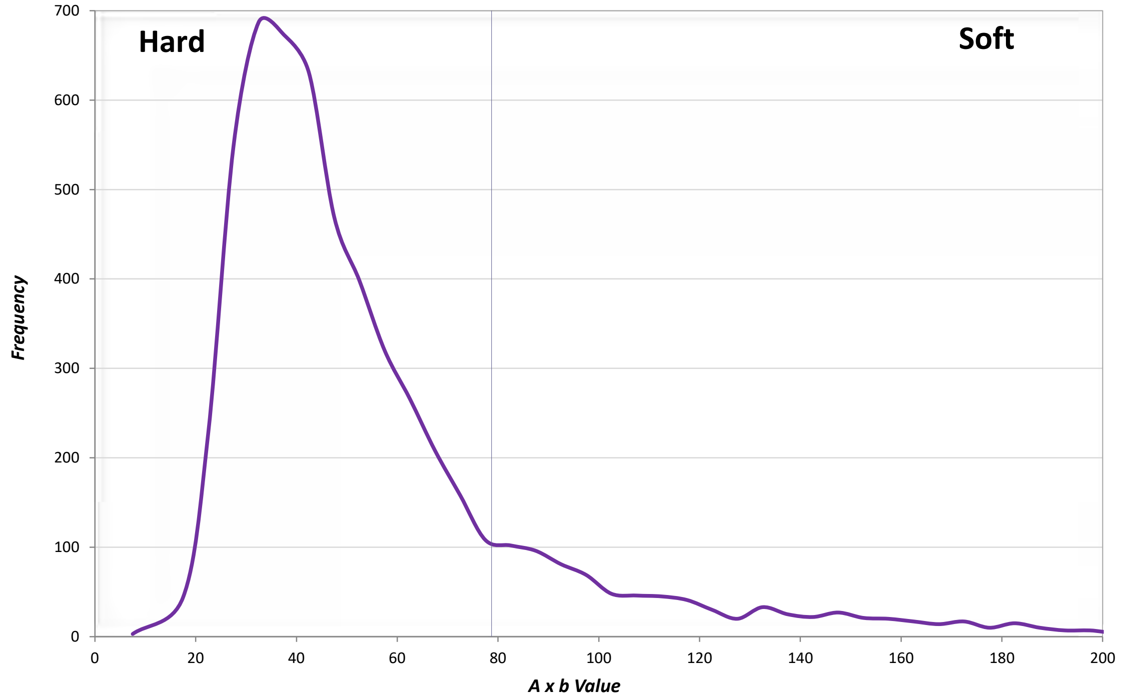

*Figure 8 - Frequency Distribution of A*b in the JKTech Database*

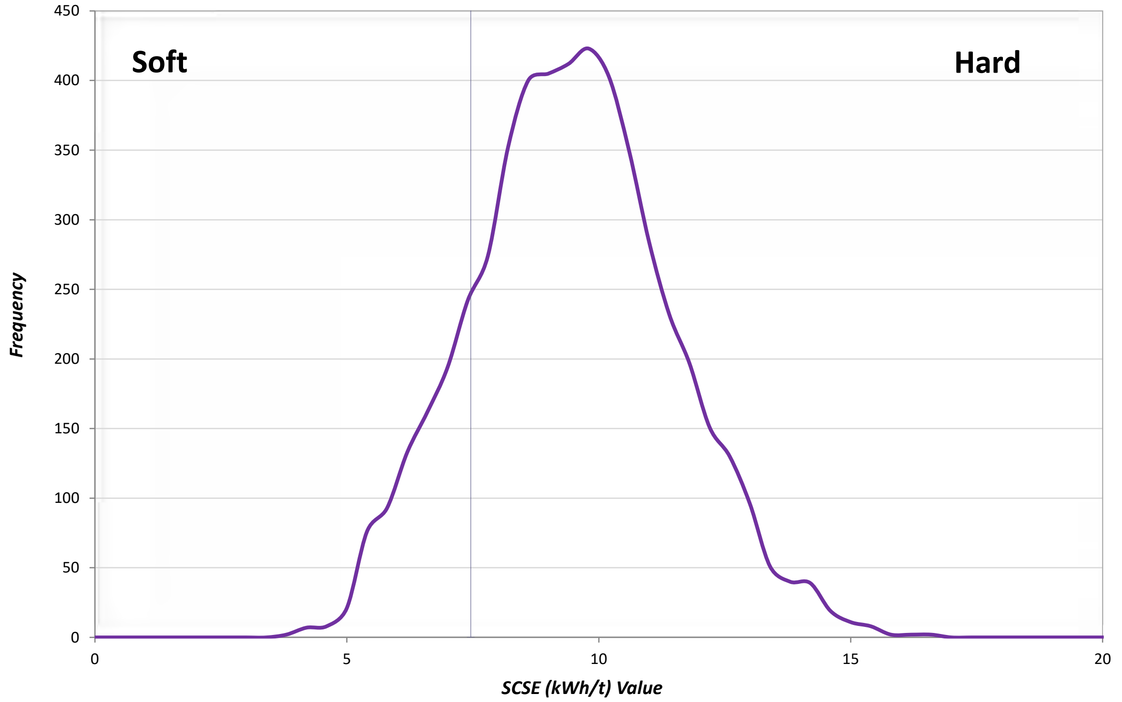

Figure 9 - Frequency Distribution of SCSE in the JKTech Database

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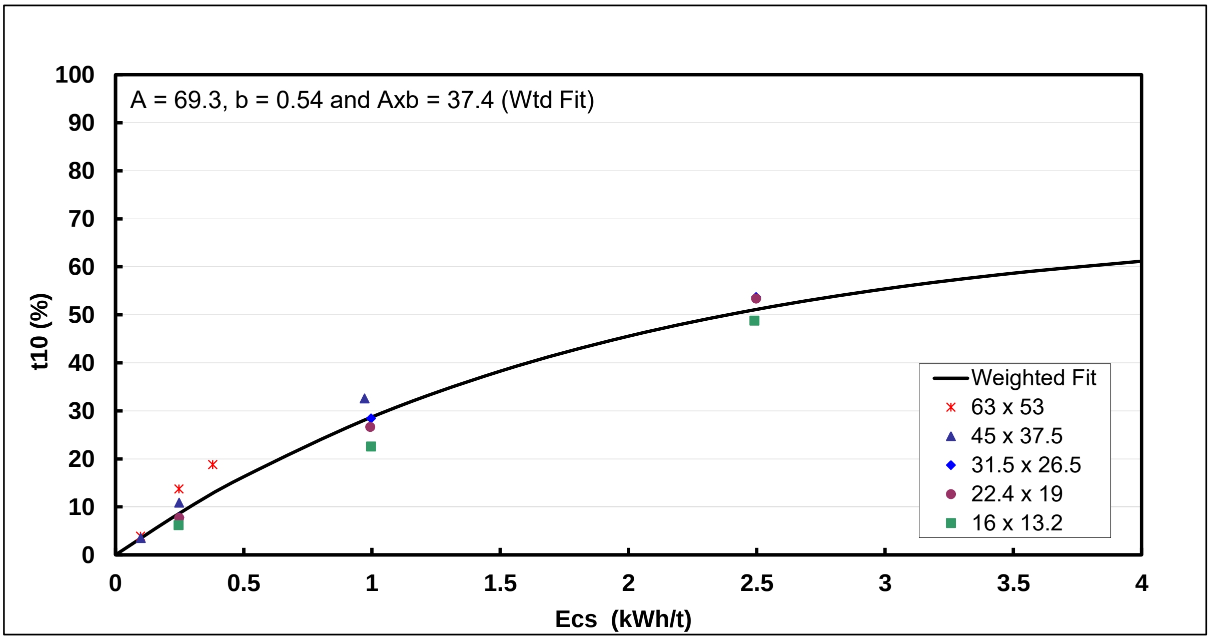
Appendices

APPENDIX A. SAG Circuit Specific Energy (SCSE)

For a little over 20 years, the results of JK Drop Weight tests and SMC tests have been reported in part as A, b and t_a parameters. A and b are parameters which describe the response of the ore under test to increasing levels of input energy in single impact breakage. A typical t_{10} v Ecs curve resulting from a Drop Weight test is shown in App Figure 1.



App Figure 1 – Typical t10 v Ecs curve

The curve shown in App Figure 1 is represented by an equation which is given in Equation 1.

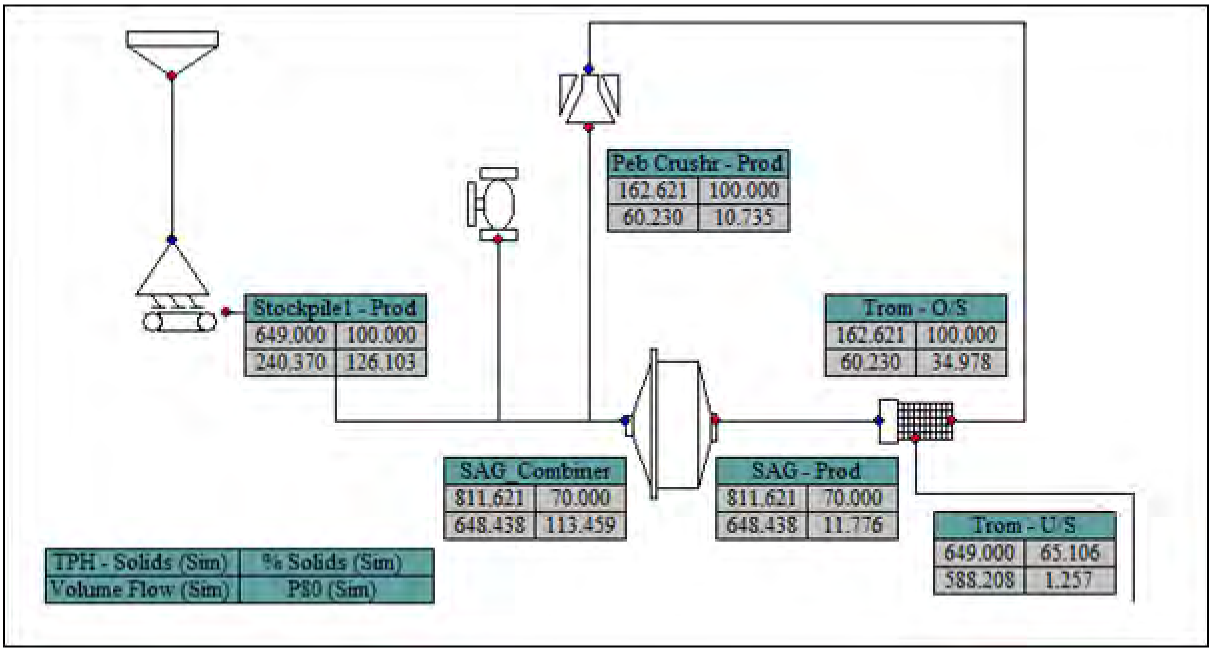
$$t_{10} = A(1 - e^{-b.Ecs}) \qquad \text{Equation 1}$$

The parameters A and b are generated by least squares fitting Equation 1 to the JK Drop Weight test data. The parameter t_a is generated from a tumbling test.

Both A and b vary with ore type but having two parameters describing a single ore property makes comparison difficult. For that reason the product of A and b, referred to as A*b, which is related to the slope of the t_{10} – E_{cs} curve at the origin, has been universally accepted as the parameter which represents an ore's resistance to impact breakage.

The parameters A, b and t_a have no physical meaning in their own right. They are ore hardness parameters used by the AG/SAG mill model in JKSimMet which permits prediction of the product size distribution and the power draw of the AG/SAG mill for a given feed size distribution and feed rate. In a design situation, the dimensions of the mill are adjusted until the load in the mill reaches 25 % by volume when fed at the required feed rate. The model predicts the power draw under these conditions and from the power draw and throughput the specific energy is determined. The specific energy is mainly a function of the ore hardness (A and b values), the feed size and the dimensions of the mill (specifically the aspect ratio) as well as to a lesser extent the operating conditions such as ball load, mill speed, grate/pebble port size and pebble crusher activity.

There are two drawbacks to the approach of using A*b as the single parameter to describe the impact resistance of a particular ore. The first is that A*b is inversely related to impact resistance, which adds unnecessary complication. The second is that A*b is related to impact resistance in a non-linear manner. As mentioned earlier this relationship and how it affects comminution machine performance can only be predicted via simulation modelling. Hence to give more meaning to the A and b values and to overcome these shortcomings, JKTech Pty Ltd and SMC Testing Pty Ltd have developed a "standard" simulation methodology to predict the specific energy required for a particular tested ore when treated in a "Standard" circuit comprising a SAG mill in closed circuit with a pebble crusher. The flowsheet is shown in App Figure 2 .



App Figure 2 – Flowsheet used for "Standard" AG/SAG circuit simulations

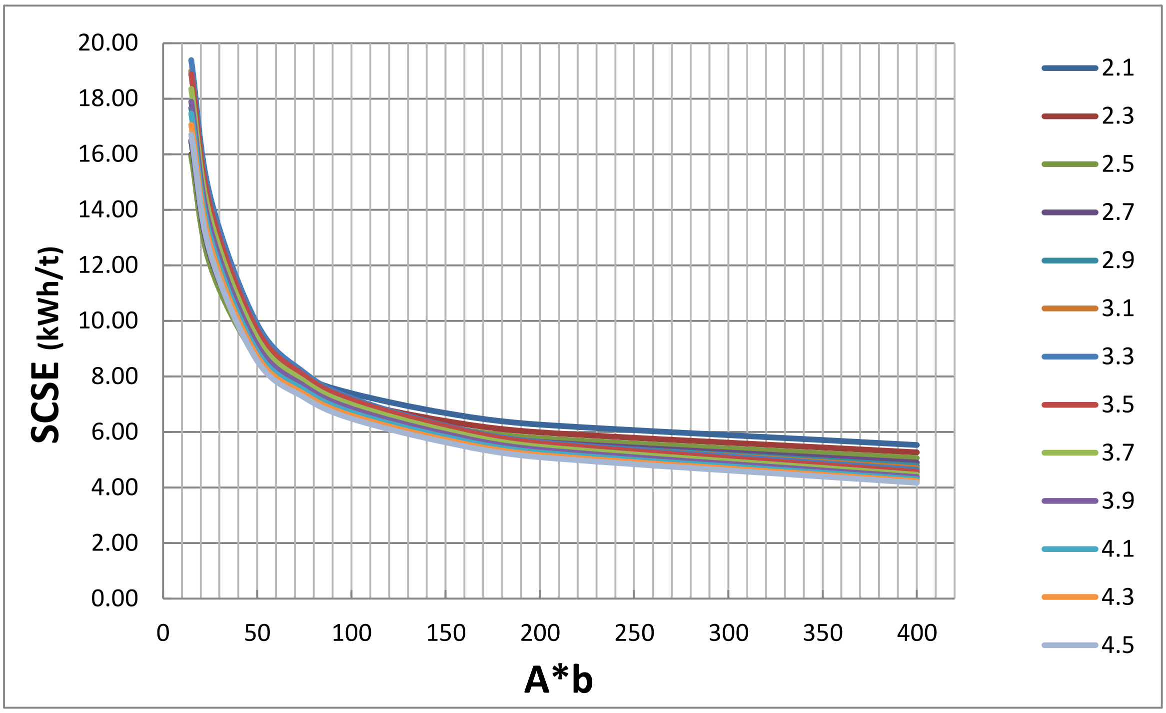
The specifications for the "standard" circuit are:

- SAG Mill
    - inside shell diameter to length ratio of 2:1 with 15 ° cone angles
    - ball charge of 15 %, 125 mm in diameter
    - total charge of 25 %
    - grate open area of 7 %
    - apertures in the grate are 100 % pebble ports with a nominal aperture of 56 mm
- Trommel
    - Cut Size of 12 mm
- Pebble Crusher
    - Closed Side Setting of 10 mm
- Feed Size Distribution
    - F_{80} from the t_a relationship given in Equation 2

The feed size distribution is taken from the JKTech library of typical feed size distributions and is adjusted to meet the ore specific 80 % passing size predicted using the Morrell and Morrison (1996) F_{80} – t_a relationship for primary crushers with a closed side setting of 150 mm given in Equation 2.

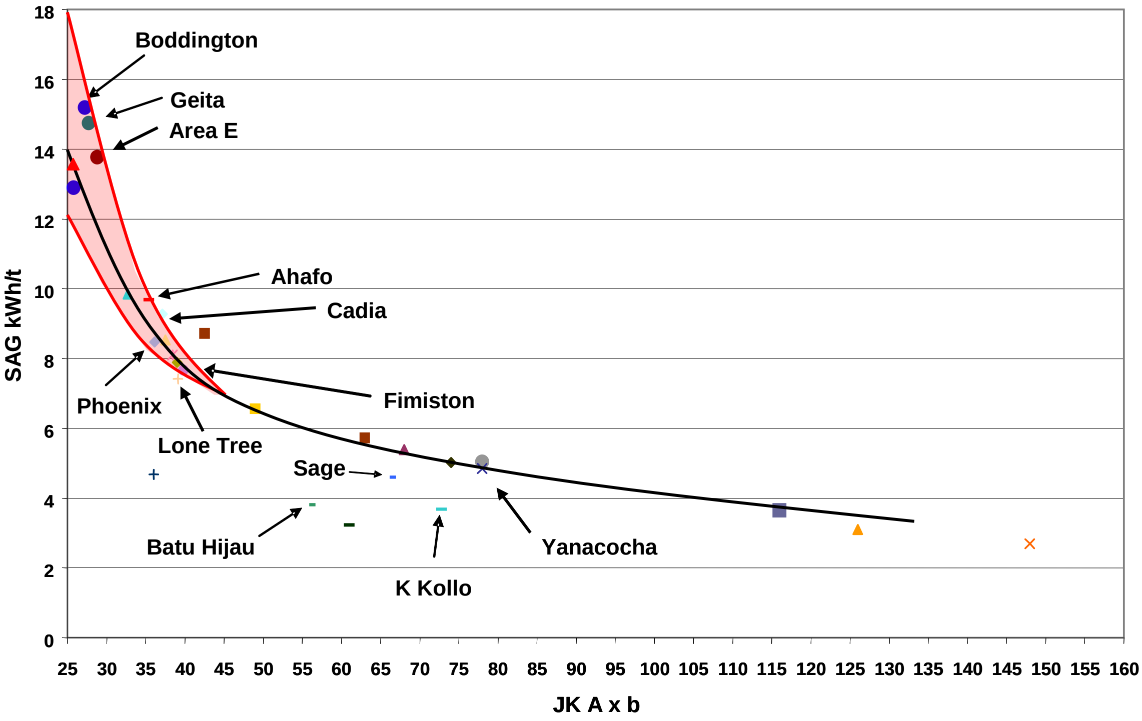
$$F_{80} = 71.3 - 28.4 * \ln(t_a) \qquad \text{Equation 2}$$

Simulations were conducted with A*b values ranging from 15 to 400, t_a values ranging from 0.145 to 3.866 and solids SG values ranging from 2.1 to 4.5. For each simulation, the feed rate was adjusted until the total load volume in the SAG mill was 25 %. The predicted mill power draw and crusher power draw were combined and divided by the feed rate to provide the specific energy consumption. The results are shown in App Figure 3.



*App Figure 3 – The relationship between A*b and specific energy at varying SG for the "Standard" circuit.*

It is of note that the family of curves representing the relationship between Specific energy and A*b for the "standard" circuit is very similar to the specific energy – A*b relationship for operating mills published in Veillette and Parker, 2005 and reproduced here in App Figure 4.



*App Figure 4 – A*b vs SAG kWh/t for operating AG/SAG mills (after Veillette and Parker, 2005).*

Of course, the SCSE quoted value will not necessarily match the specific energy required for an existing or a planned AG/SAG mill due to differences in the many operating and design variables such as feed size distribution, mill dimensions, ball load and size and grate, trommel and pebble crusher configuration. The SCSE is an effective tool to compare in a relative manner the expected behaviour of different ores in AG/SAG milling in exactly the same way as the Bond laboratory ball mill work index can be used to compare the relative grindability of different ores in ball milling (Bond, 1961 and Rowland and Kjos, 1980). However the originally reported A and b parameters which match the SCSE will be still be required in JKSimMet simulations of a proposed circuit to determine the AG/SAG mill specific energy required for that particular grinding task. Guidelines for the use of JKSimMet for such simulations were given in Bailey *et al*, 2009.

APPENDIX B. Background And Use Of The SMC Test®

B 1 Introduction

The SMC Test® was developed to provide a range of useful comminution parameters through highly controlled breakage of rock samples. Drill core, even quartered small diameter core is suitable. Only relatively small quantities of sample are required and can be re-used to conduct Bond ball work index tests.

The results from conducting the SMC Test® are used to determine the so-called drop-weight index (DW_i), which is a measure of the strength of the rock, as well as the comminution indices M_{ia}, M_{ih} and M_{ic} . The SMC Test® also estimates the JK rock breakage parameters *A*, *b* and t_a as well as the JK crusher model's *t10-Ecs* matrix, all of which are generated as part of the standard report output from the test.

In conjunction with the Bond ball mill work index the DW_i and the M_i suite of parameters can be used to accurately predict the overall specific energy requirements of circuits containing:

- AG and SAG mills.
- Ball mills
- Rod mills
- Crushers
- High Pressure Grinding Rolls (HPGR)

The JK rock breakage parameters can be used to simulate crushing and grinding circuits using JKTech's simulator – JKSimMet.

B 2 Simulation Modelling and Impact Comminution Theory

When a rock fragment is broken, the degree of breakage can be characterised by the "t_{10}" parameter. The t_{10} value is the percentage of the original rock mass that passes a screen aperture one tenth of the original rock fragment size. This parameter allows the degree of breakage to be compared across different starting sizes.

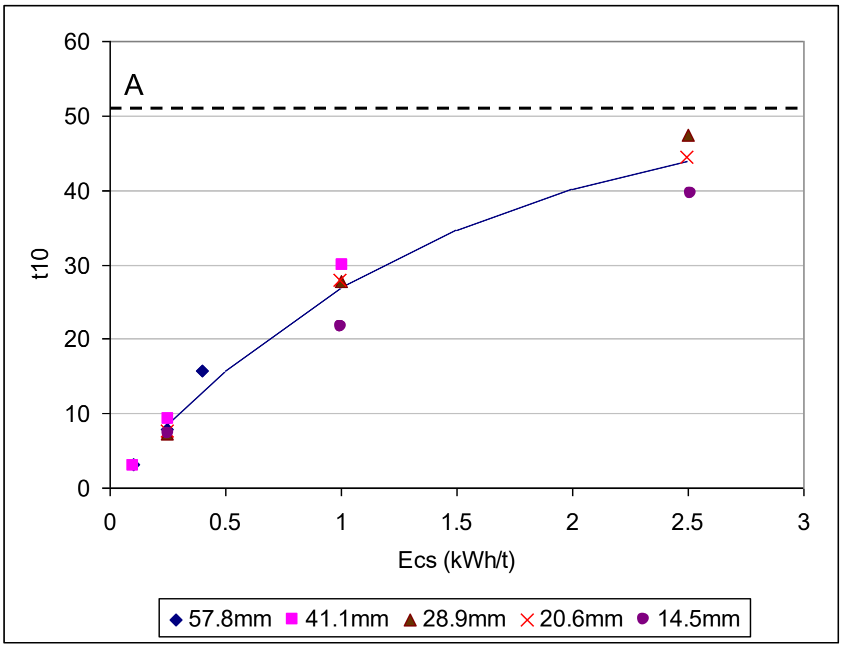
The specific comminution energy (*Ecs*) has the units kWh/t and is the energy applied during impact breakage. As the impact energy is varied, so does the t_{10} value vary in response. Higher impact energies produce higher values of t_{10}, which of course means products with finer size distributions.

The equation describing the relationship between the t_{10} and *Ecs* is given below.

$$t_{10} = A(1 - e^{-b.Ecs}) \qquad \text{Equation 1}$$

As can be seen from this equation, there are two rock breakage parameters *A* and *b* that relate the t_{10} (size distribution index) to the applied specific energy (*Ecs*). These parameters are ore specific and are normally determined from a full JK Drop-Weight test.

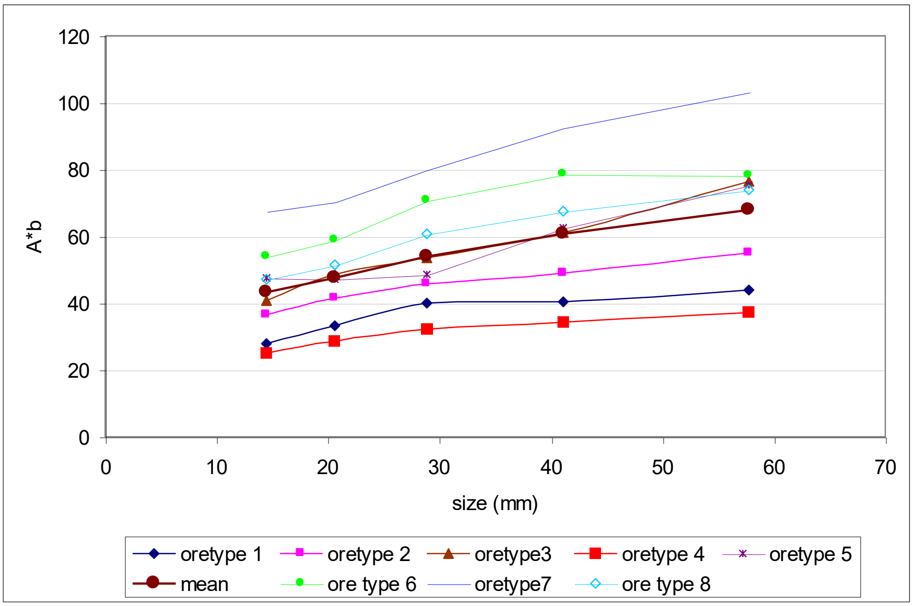
A typical plot of t_{10} vs *Ecs* from a JK Drop-Weight test is shown in App Figure 5. The relationship is characterised by the two-parameter equation above, where t_{10} is the dependent variable.



App Figure 5 - Typical t10 v Ecs Plot

The t_{10} can be thought of as a "fineness index" with larger values of t_{10} indicating a finer product size distribution. The value of parameter A is the limiting value of t_{10}. This limit indicates that at higher energies, little additional size reduction occurs as the *Ecs* is increased beyond a certain value. *A*b* is the slope of the curve at 'zero' input energy and is generally regarded as an indication of the strength of the rock, lower values indicating a higher strength.

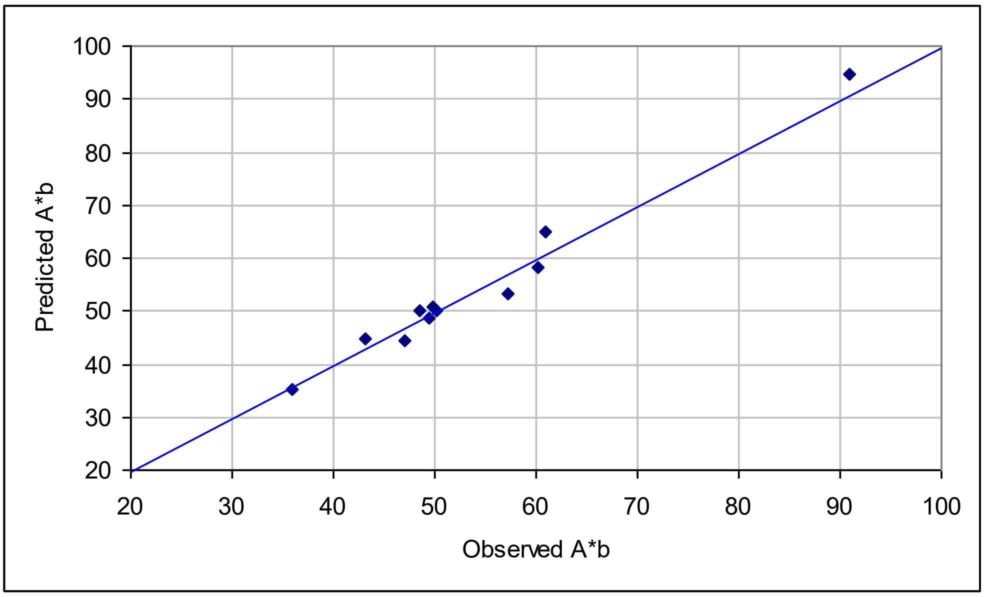
The SMC Test® is used to estimate the JK rock breakage parameters *A* and *b* by utilizing the fact that there is usually a pronounced (and ore specific) trend to decreasing rock strength with increasing particle size. This trend is illustrated in App Figure 6 which shows a plot of *A*b* versus particle size for a number of different rock types.



App Figure 6 - Size Dependence of A*b for a Range of Ore Types

In the case of a conventional JK Drop-Weight test these values are effectively averaged and a mean value of *A* and *b* is reported. The SMC Test® uses a single size and makes use of relationships such as that shown in App Figure 6 to predict the *A* and *b* of the particle size that has the same value as the mean for a full JK Drop-Weight test.

An example of this is illustrated in App Figure 7, where the observed values of the product *A**b* are plotted against those predicted using the DWi. Each of the data points in App Figure 7 is a result from a different ore type within an orebody.



App Figure 7 - Predicted v Observed A*b

The *A* and *b* parameters are used with Equation 1 and relationships such as illustrated in App Figure 6 to generate a matrix of *Ecs* values for a specific range of t_{10} values and particle sizes. This matrix is used in crusher modelling to predict the power requirement of the crusher given a feed and a product size specification (Napier-Munn et al (1996)).

The *A* and *b* parameters are also used in AG/SAG mill models, such as those in JKSimMet, for predicting how the rock will break inside the mill. From this description the models can predict what the throughput, power draw and product size distribution will be (Napier-Munn et al (1996)). Modelling also enables a detailed flowsheet to be built up of the comminution circuit response to changes in ore type. It also allows optimisation strategies to be developed to overcome any deleterious changes in circuit performance predicted from differences in ore type. These strategies can include both changes to how mills are operated (eg ball load, speed etc) and changes to feed size distribution through modification of blasting practices and primary crusher operation (mine-to-mill).

B 3 Power-Based Equations

B 3.1 General

The DW_i, M_{ia}, M_{ih} and M_{ic} parameters are used in so-called power-based equations which predict the specific energy of the associated comminution machines. The approach divides comminution equipment into three categories:

- Tumbling mills, eg AG, SAG, rod and ball mills
- Conventional reciprocating crushers, eg jaw, gyratory and cone
- HPGRs

Tumbling mills are described using 2 indices: M_{ia} and M_{ib}
Crushers have one index: M_{ic}
HPGRs have one index: M_{ih}

For tumbling mills the 2 indices relate to "coarse" and "fine" ore properties plus an efficiency factor which represents the influence of a pebble crusher in AG/SAG mill circuits. "Coarse" in this case is defined as spanning the size range from a P80 of 750 microns up to the P80 of the product of the last stage of crushing or HPGR size reduction prior to grinding. "Fine" covers the size range from a P80 of 750 microns down to P80 sizes typically reached by conventional ball milling, ie about 45 microns. The choice of 750 microns as the division between "coarse" and "fine" particle sizes was determined during the development of the technique and was found to give the best overall results across the range of plants in SMCT's data base. Implicit in the approach is that distributions are parallel and linear in log-log space.

The work index covering grinding in tumbling mills of coarse sizes is labelled M_{ia}. The work index covering grinding of fine particles is labelled Mib (Morrell, 2008). M_{ia} values are provided as a standard output from a SMC Test® (Morrell, 2004a) whilst M_{ib} values can be determined using the data generated by a conventional Bond ball mill work index test (M_{ib} is NOT the Bond ball work index). M_{ic} and M_{ih} values are also provided as a standard output from a SMC Test® (Morrell, 2009).

The general size reduction equation is as follows (Morrell, 2004b):

$$W_i = M_i.4(x_2{}^{f(x_2)} - x_1{}^{f(x_1)}) \qquad \text{Equation 3}$$

where

M_i = Work index related to the breakage property of an ore (kWh/tonne); for grinding from the product of the final stage of crushing to a P80 of 750 microns (coarse particles) the index is labelled Mia and for size reduction from 750 microns to the final product P80 normally reached by conventional ball mills (fine particles) it is labelled M_{ib}. For conventional crushing M_{ic} is used and for HPGRs Mih is used.
Wi = Specific comminution (kWh/tonne)
x_2 = 80% passing size for the product (microns)
x_1 = 80% passing size for the feed (microns)
$f(x_j)$ = $-(0.295 + x_j/1000000)$ (Morrell, 2006) Equation 4

For tumbling mills the specific comminution energy (Wi) relates to the power at the pinion or for gearless drives - the motor output. For HPGRs it is the energy inputted to the rolls, whilst for conventional crushers Wi relates to the specific energy as determined using the motor input power less the no-load power.

B 3.2 Specific Energy Determination for Comminution Circuits

The total specific energy (W_T) to reduce primary crusher product to final product size is given by:

$$W_T = W_a + W_b + W_c + W_h + W_s \qquad \text{Equation 5}$$

where

W_a = specific energy to grind coarser particles in tumbling mills
W_b = specific energy to grind finer particles in tumbling mills
W_c = specific energy for conventional crushing

W_h = specific energy for HPGRs
W_s = specific energy correction for size distribution

Clearly only the *W* values associated with the relevant equipment in the circuit being studied are included in Equation 5.

B 3.2.1 Tumbling mills

For coarse particle grinding in tumbling mills Equation 3 is written as:

$$W_a = K_1 M_{ia}.4(x_2{}^{f(x_2)} - x_1{}^{f(x_1)})$$ Equation 6

where
K_1 = 1.0 for all circuits that do not contain a recycle pebble crusher and 0.95 where circuits do have a pebble crusher
x_1 = P_{80} in microns of the product of the last stage of crushing before grinding
x_2 = 750 microns
M_{ia} = Coarse ore work index and is provided directly by SMC Test®

For fine particle grinding Equation 3 is written as:

$$W_b = M_{ib}.4(x_3{}^{f(x_3)} - x_2{}^{f(x_2)})$$ Equation 7

where
x_2 = 750 microns
x_3 = P_{80} of final grind in microns
M_{ib} = Provided by data from the standard Bond ball work index test using the following equation (Morrell, 2006):

$$M_{ib} = {}^{18.18}\!\Big/_{P_1{}^{0.295}(Gbp)(p_{80}{}^{f(p_{80})} - f_{80}{}^{f(f_{80})})}$$ Equation 8

where
Mib = fine ore work index (kWh/tonne)
P_1 = closing screen size in microns
Gbp = net grams of screen undersize per mill revolution
p_{80} = 80% passing size of the product in microns
f_{80} = 80% passing size of the feed in microns

Note that the Bond ball work index test should be carried out with a closing screen size which gives a final product P80 similar to that intended for the full scale circuit.

B 3.2.2 Conventional Crushers and HPGR

Equation 3 for conventional crushers is written as:

$$W_c = S_c K_2 M_{ic}.4(x_2{}^{f(x_2)} - x_1{}^{f(x_1)})$$ Equation 9

where
S_c = coarse ore hardness parameter which is used in primary and secondary crushing situations. It is defined by Equation 10 with K_s set to 55.
K_2 = 1.0 for all crushers operating in closed circuit with a classifying screen. If the crusher is in open circuit, eg pebble crusher in a AG/SAG circuit, K_2 takes the value of 1.19.
x_1 = P_{80} in microns of the circuit feed
x_2 = P_{80} in microns of the circuit product

M_{ic} = Crushing ore work index and is provided directly by SMC Test®

The coarse ore hardness parameter (S) makes allowance for the decrease in ore hardness that becomes significant in relatively coarse crushing applications such as primary and secondary cone/gyratory circuits. In tertiary and pebble crushing circuits it is normally not necessary and takes the value of unity. In full scale HPGR circuits where feed sizes tend to be higher than used in laboratory and pilot scale machines the parameter has also been found to improve predictive accuracy. The parameter is defined by Equation 10.

$$S = K_s(x_1.x_2)^{-0.2} \qquad \text{Equation 10}$$

where

K_s = machine-specific constant that takes the value of 55 for conventional crushers and 35 in the case of HPGRs

x_1 = P_{80} in microns of the circuit feed

x_2 = P_{80} in microns of the circuit product

Equation 3 for HPGR's crushers is written as:

$$W_h = S_h K_3 M_{ih}.4({x_2}^{f(x_2)} - {x_1}^{f(x_1)}) \qquad \text{Equation 11}$$

where

S_h = coarse ore harness parameter as defined by Equation 10 and with K_s set to 35

K_3 = 1.0 for all HPGRs operating in closed circuit with a classifying screen. If the HPGR is in open circuit, K3 takes the value of 1.19.

x_1 = P_{80} in microns of the circuit feed

x_2 = P_{80} in microns of the circuit product

M_{ih} = HPGR ore work index and is provided directly by SMC Test®

B 3.2.3 Specific Energy Correction for Size Distribution (Ws)

Implicit in the approach described in this appendix is that the feed and product size distributions are parallel and linear in log-log space. Where they are not, allowances (corrections) need to be made. By and large, such corrections are most likely to be necessary (or are large enough to be warranted) when evaluating circuits in which closed circuit secondary/tertiary crushing is followed by ball milling. This is because such crushing circuits tend to produce a product size distribution which is relatively steep when compared to the ball mill circuit cyclone overflow. This is illustrated in App Figure 8, which shows measured distributions from an open and closed crusher circuit as well as a ball mill cyclone overflow. The closed circuit crusher distribution can be seen to be relatively steep compared with the open circuit crusher distribution and ball mill cyclone overflow. Also the open circuit distribution more closely follows the gradient of the cyclone overflow. If a ball mill circuit were to be fed two distributions, each with same P80 but with the open and closed circuit gradients in App Figure 8, the closed circuit distribution would require more energy to grind to the final P80. How much more energy is required is difficult to determine. However, for the purposes of this approach it has been assumed that the additional specific energy for ball milling is the same as the difference in specific energy between open and closed crushing to reach the nominated ball mill feed size. This assumes that a crusher would provide this energy. However, in this situation the ball mill has to supply this energy and it has a different (higher) work index than the crusher (ie the ball mill is less energy efficient than a crusher and has to input more energy to do the same amount of size reduction). Hence from Equation 9, to crush to the ball mill circuit feed size (x_2) in open circuit requires specific energy equivalent to:

$$W_c = 1.19 * M_{ic}.4({x_2}^{f(x_2)} - {x_1}^{f(x_1)}) \qquad \text{Equation 12}$$

For closed circuit crushing the specific energy is:

$$W_c = 1 * M_{ic}.4(x_2{}^{f(x_2)} - x_1{}^{f(x_1)})$$ Equation 13

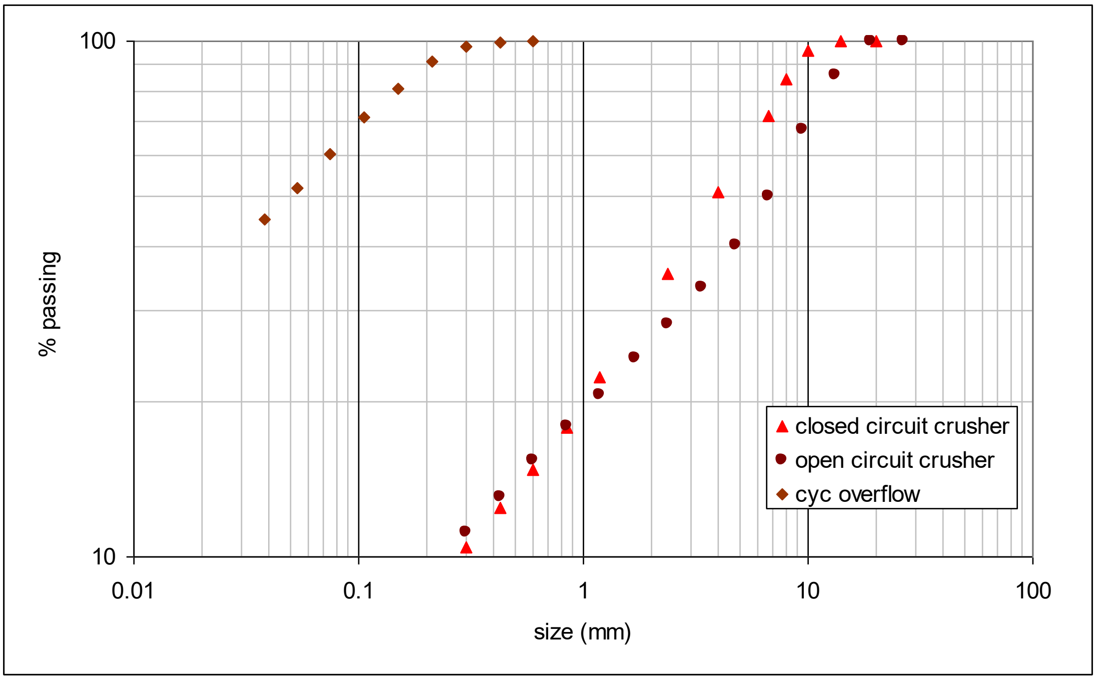
The difference between the two (Equation 12 and Equation 13) has to be provided by the milling circuit with an allowance for the fact that the ball mill, with its lower energy efficiency, has to provide it and not the crusher. This is what is referred to in Equation 5 as W_s and for the above example is therefore represented by:

$$W_s = 0.19 * M_{ia}.4(x_2{}^{f(x_2)} - x_1{}^{f(x_1)})$$ Equation 14

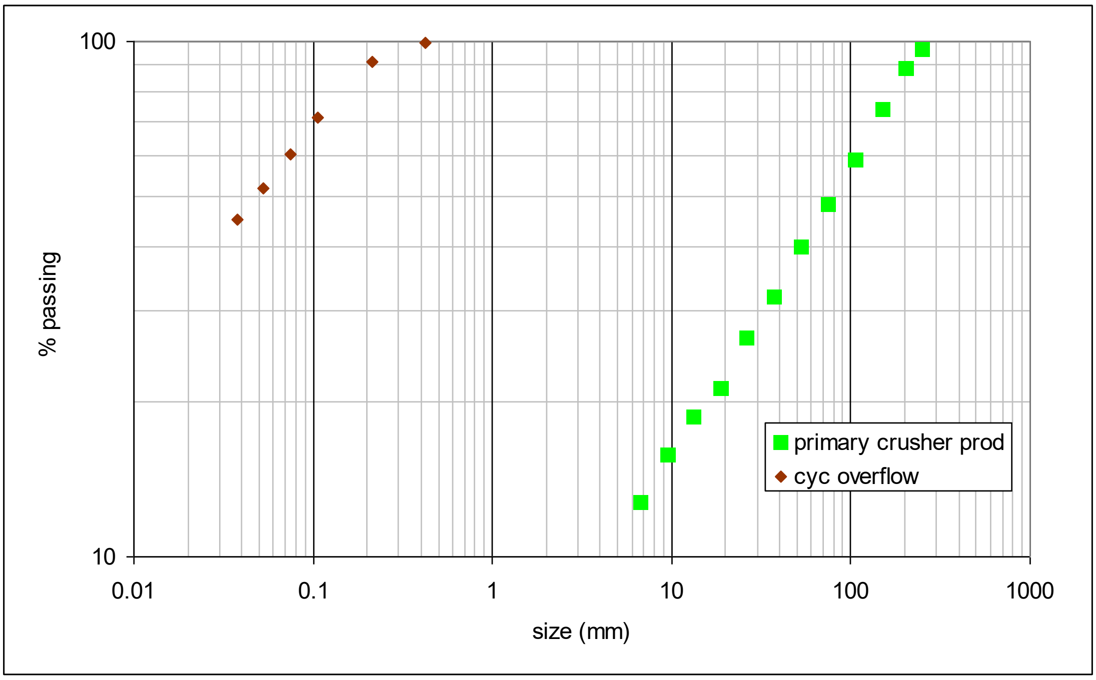
Note that in Equation 14 M_{ic} has been replaced with M_{ia}, the coarse particle tumbling mill grinding work index.

In AG/SAG based circuits the need for W_s appears to be unnecessary as App Figure 9 illustrates. Primary crusher feeds often have the shape shown in App Figure 9and this has a very similar gradient to typical ball mill cyclone overflows. A similar situation appears to apply with HPGR product size distributions, as illustrated in App Figure 10. Interestingly SMCT's data show that for HPGRs, closed circuit operation appears to require a lower specific energy to reach the same P80 as in open circuit, even though the distributions for open and closed circuit look to have almost identical gradients. Closer examination of the distributions in fact shows that in closed circuit the final product tends to have slightly less very fine material, which may account for the different energy requirements between the two modes of operation. It is also possible that recycled material in closed circuit is inherently weaker than new feed, as it has already passed through the HPGR previously and may have sustained micro-cracking. A reduction in the Bond ball mill work index as measured by testing HPGR products compared it to the Bond ball mill work index of HPGR feed has been noticed in many cases in the laboratory (see next section) and hence there is no reason to expect the same phenomenon would not affect the recycled HPGR screen oversize.

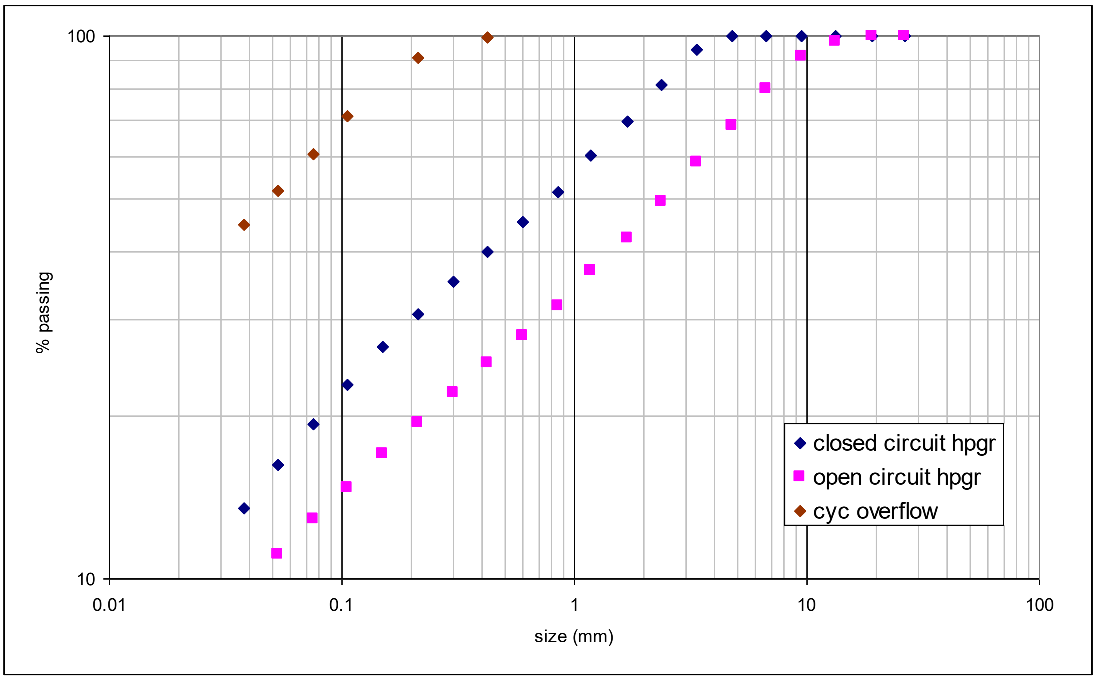
It follows from the above arguments that in HPGR circuits, which are typically fed with material from closed circuit secondary crushers, a similar feed size distribution correction should also be applied. However, as the secondary crushing circuit uses such a relatively small amount of energy compared to the rest of the circuit (as it crushes to a relatively coarse size) the magnitude of size distribution correction is very small indeed – much smaller than the error associated with the technique - and hence may be omitted in calculations.



App Figure 8 – Examples of Open and Closed Circuit Crushing Distributions Compared with a Typical Ball Mill Cyclone Overflow Distribution



App Figure 9 – Example of a Typical Primary Crusher (Open and Circuit) Product Distribution Compared with a Typical Ball Mill Cyclone Overflow Distribution



App Figure 10 – Examples of Open and Closed Circuit HPGR Distributions Compared with a Typical Ball Mill Cyclone Overflow Distribution

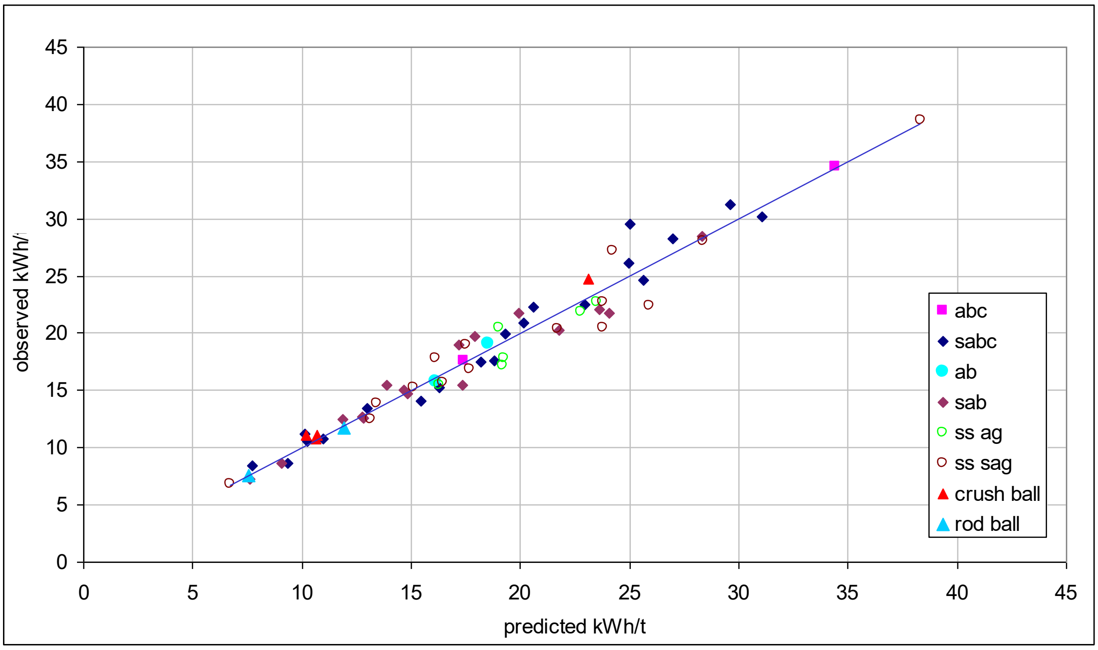
B 3.2.4 Weakening of HPGR Products

As mentioned in the previous section, laboratory experiments have been reported by various researchers in which the Bond ball work index of HPGR products is less than that of the feed. The amount of this reduction appears to vary with both material type and the pressing force used. Observed reductions in the Bond ball work index have typically been in the range 0-10%. In the approach described in this appendix no allowance has been made for such weakening. However, if HPGR products are available which can be used to conduct Bond ball work index tests on then M_{ib} values obtained from such tests can be used in Equation 7. Alternatively the M_{ib} values from Bond ball mill work index tests on HPGR feed material can be reduced by an amount that the user thinks is appropriate. Until more data become available from full scale HPGR/ball mill circuits it is suggested that, in the absence of Bond ball mill work index data on HPGR products, the M_{ib} results from HPGR feed material are reduced by no more than 5% to allow for the effects of micro-cracking.

B 3.3 Validation

B 3.3.1 Tumbling Mill Circuits

The approach described in the previous section was applied to over 120 industrial data sets. The results are shown in App Figure 11. In all cases, the specific energy relates to the tumbling mills contributing to size reduction from the product of the final stage of crushing to the final grind. Data are presented in terms of equivalent specific energy at the pinion. In determining what these values were on each of the plants in the data base it was assumed that power at the pinion was 93.5% of the measured gross (motor input) power, this figure being typical of what is normally accepted as being reasonable to represent losses across the motor and gearbox. For gearless drives (so-called wrap-around motors) a figure of 97% was used.



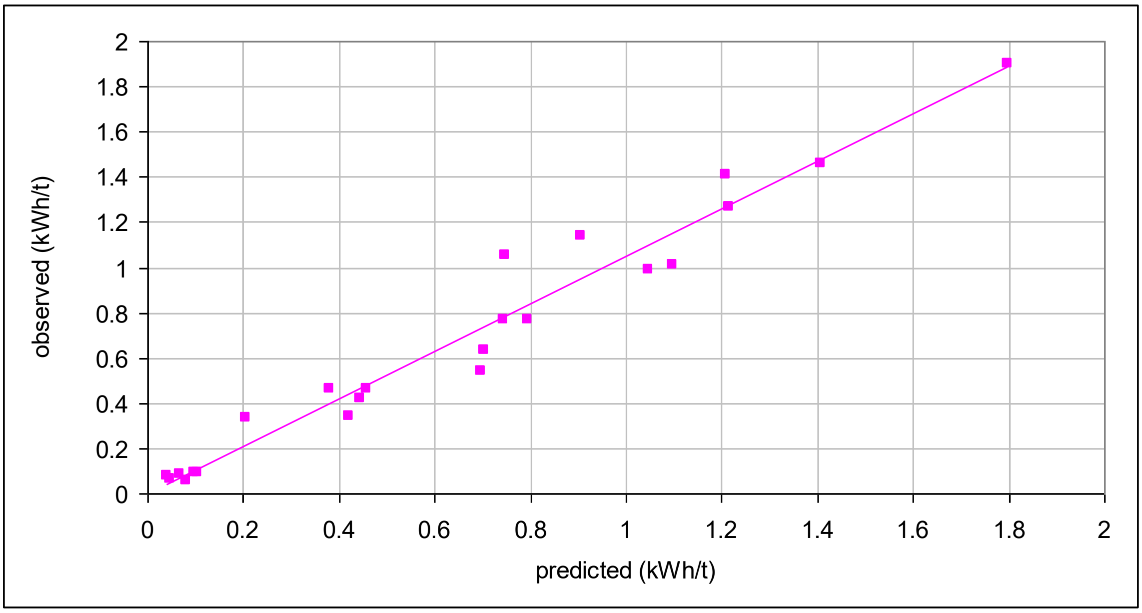
App Figure 11 – Observed vs Predicted Tumbling Mill Specific Energy

B 3.3.2 Conventional Crushers

Validation used 12 different crushing circuits (25 data sets), including secondary, tertiary and pebble crushers in AG/SAG circuits. Observed vs predicted specific energies are given in App Figure 12. The observed specific energies were calculated from the crusher throughput and the net power draw of the crusher as defined by:

Net Power = Motor Input Power – No Load Power Equation 15

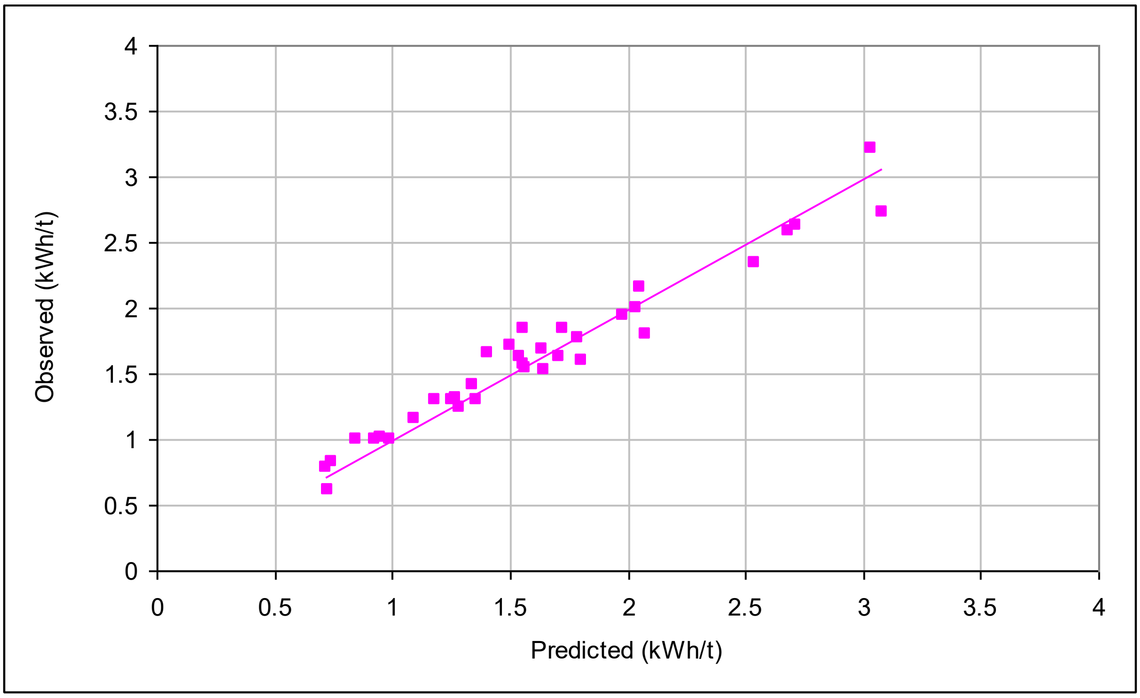
No-load power tends to be relatively high in conventional crushers and hence net power is significantly lower than the motor input power. From examination of the 25 crusher data sets the motor input power was found to be on average 20% higher than the net power.



App Figure 12 – Observed vs Predicted Conventional Crusher Specific Energy

B 3.3.3 HPGRs

Validation for HPGRs used data from 19 different circuits (36 data sets) including laboratory, pilot and industrial scale equipment. Observed vs predicted specific energies are given in App Figure 13. The data relate to HPGRs operating with specific grinding forces typically in the range 2.5-3.5 N/mm^2. The observed specific energies relate to power delivered by the roll drive shafts. Motor input power for full scale machines is expected to be 8-10% higher.



App Figure 13 – Observed vs Predicted HPGR Specific Energy

B 4 WORKED EXAMPLES

A SMC Test® and Bond ball work index test were carried out on a representative ore sample. The following results were obtained:

SMC Test®:
M_{ia} = 19.4 kWh/t
M_{ic} = 7.2 kWh/t
M_{ih} = 13.9 kWh/t
Bond test carried out with a 150 micron closing screen:
M_{ib} = 18.8 kWh/t

Three circuits are to be evaluated:

- SABC
- HPGR/ball mill
- Conventional crushing/ball mill

The overall specific grinding energy to reduce a primary crusher product with a P_{80} of 100 mm to a final product P_{80} of 106 µm needs to be estimated.

B 4.1 SABC Circuit

Coarse particle tumbling mill specific energy:

$$W_a = 0.95 * 19.4 * 4 * \left(750^{-(0.295+750/1000000)} - 100000^{-(0.295+100000/1000000)} \right)$$

= 9.6 kWh/t

Fine particle tumbling mill specific energy:

$$W_b = 18.8 * 4 * \left(106^{-(0.295+106/1000000)} - 750^{-(0.295+750/1000000)}\right)$$

= 8.4 kWh/t

Pebble crusher specific energy:

In this circuit, it is assumed that the pebble crusher feed P_{80} is 52.5mm. As a rule of thumb this value can be estimated by assuming that it is 0.75 of the nominal pebble port aperture (in this case the pebble port aperture is 70mm). The pebble crusher is set to give a product P_{80} of 12mm. The pebble crusher feed rate is expected to be 25% of new feed tph.

$$W_c = 1.19 * 7.2 * 4 * \left(12000^{-(0.295+12000/1000000)} - 52500^{-(0.295+52500/1000000)}\right)$$

= 1.12 kWh/t when expressed in terms of the crusher feed rate
= 1.12 * 0.25 kWh/t when expressed in terms of the SABC circuit new feed rate
= 0.3 kWh/t of SAG mill circuit new feed

Total net comminution specific energy:

W_T = 9.6 + 8.4 + 0.3 kWh/t
= 18.3 kWh/t

B 4.2 HPGR/Ball Milling Circuit

In this circuit primary crusher product is reduced to a HPGR circuit feed P_{80} of 35 mm by closed circuit secondary crushing. The HPGR is also in closed circuit and reduces the 35 mm feed to a circuit product P_{80} of 4 mm. This is then fed to a closed circuit ball mill which takes the grind down to a P_{80} of 106 µm.

Secondary crushing specific energy:

$$W_c = 1 * 55 * (35000 * 100000)^{-0.2} * 7.2 * 4 * \left(35000^{-(0.295+35000/1000000)} - 100000^{-(0.295+100000/1000000)}\right)$$

= 0.4 kWh/t

HPGR specific energy:

$$W_h = 1 * 35 * (4000 * 35000)^{-.2} * 13.9 * 4 * \left(4000^{-(0.295+4000/1000000)} - 35000^{-(0.295+35000/1000000)}\right)$$

= 2.4 kWh/t

Coarse particle tumbling mill specific energy:

$$W_a = 1 * 19.4 * 4 * \left(750^{-(0.295+750/1000000)} - 4000^{-(0.295+4000/1000000)}\right)$$

= 4.5 kWh/t

Fine particle tumbling mill specific energy:

$$W_b = 18.8 * 4 * \left(106^{-(0.295+106/1000000)} - 750^{-(0.295+750/1000000)}\right)$$

= 8.4 kWh/t

Total net comminution specific energy:

W_T = 4.5 + 8.4 + 0.4 + 2.4 kWh/t
= 15.7 kWh/t

B 4.3 Conventional Crushing/Ball Milling Circuit

In this circuit primary crusher product is reduced in size to P_{80} of 6.5 mm via a secondary/tertiary crushing circuit (closed). This is then fed to a closed circuit ball mill which grinds to a P80 of 106 µm.

Secondary/tertiary crushing specific energy:

$$W_c = 1*7.2*4*\left(6500^{-(0.295+6500/1000000)} - 100000^{-(0.295+100000/1000000)}\right)$$

= 1.7 kWh/t

Coarse particle tumbling mill specific energy :

$$W_a = 1*19.4*4*\left(750^{-(0.295+750/1000000)} - 6500^{-(0.295+6500/1000000)}\right)$$

= 5.5 kWh/t

Fine particle tumbling mill specific energy:

$$W_b = 18.8*4*\left(106^{-(0.295+106/1000000)} - 750^{-(0.295+750/1000000)}\right)$$

= 8.4 kWh/t

Size distribution correction;

$$W_s = 0.19*19.4*4*\left(6500^{-(0.295+6500/1000000)} - 100000^{-(0.295+100000/1000000)}\right)$$

= 0.9 kWh/t

Total net comminution specific energy:

W_T = 5.5 + 8.4 + 1.7 + 0.9 kWh/t
= 16.5 kWh/t