

## **MORE HIGH-GRADE RARE EARTHS AT KANGANKUNDE WITH BEST CONTINUOUS INTERSECTIONS YET**

***ALL HOLES HAVE LONG INTERSECTIONS OF HIGH-GRADE, NON-RADIOACTIVE RARE  
EARTHS ENDING IN MINERALISATION***

### **HIGHLIGHTS**

- Assay results reported from a further 11 RC holes and 3 diamond core holes with grades of up to 13.89% TREO
- Average grade of rare earths critical metal elements neodymium-praseodymium (NdPr) of 20% of TREO
- Assays returned are some of the best to date, with three holes averaging better than 3% over interval lengths of 150m or more from surface
- Significant intersections include:
  - ❖ KGKRC018: 184 metres from 4 metres to end of hole ('EOH') averaging 3.55% TREO
  - ❖ KGKRC037: 160 metres from surface to EOH averaging 3.04%
  - ❖ KGKRC039: 150 metres from surface to EOH averaging 3.02% TREO including:
    - 29 metres @ 4.70% TREO from surface
  - ❖ KGKRCDD09: 317.2 metres from surface averaging 2.70% TREO in including:
    - 184.2 metres @ 3.07% TREO from 132 metres
- KGKDD004: 245.4 metres from surface averaging 2.78% TREO in including:
  - 53.6 metres @ 3.13% TREO from 65.4 metres
  - 63.6 metres @ 3.03% TREO from 127 metres
  - 40.1 metres @ 3.34% TREO from 205.3 metres
- Mineralisation is again non-radioactive – low levels of radionuclides thorium and uranium throughout
- Phase 1 program has now concluded with over 14,000 metres of drilling completed; assays from 49 holes remain outstanding
- Phase 2 orebody extension program of 2x 1,000m holes has commenced with RC collars to 150m completed for each; diamond drilling underway
- On-track to reported maiden Mineral Resource Estimate under JORC 2012 code this quarter

**Lindian's Chief Executive Officer, Alistair Stephens commented:** *"These latest assay results are some of our highest grades to date with three holes averaging better than 3% TREO over continuous intervals of 150m or more from surface.*

*Since the commencement of this drilling program, Kangankunde has consistently delivered assays of +2.5% over extensive lengths with almost all holes ending in mineralisation, the NdPr ratio being over 20% and the material being non-radioactive. The results reinforce our firm belief that Kangankunde is rapidly emerging as one of the world's Tier 1 rare earths deposits.*

*These high-grade results are largely from the northern part of the central carbonatite, an area that is showing considerable promise, and for which further assays are pending. We are yet to define the depth and extremities of the mineralisation and with our Phase 2 program now well underway, we will likely get a better understanding of the extent of the orebody.*

*These latest results, and assays pending from the remaining 49 holes, will form part of the Mineral Resource Estimate due to be reported this quarter. As well as development drilling, metallurgical test work is ongoing, so too is work on the planned Phase 1 processing plant. We look forward to reporting more operational updates."*

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**--Lindian Resources Limited (ASX:LIN) ("Lindian" or "the Company")** is pleased to advise of the receipt further assays from the Phase 1 drilling program at the Kangankunde Rare Earths Project in Malawi.

The assays reported below are from eleven (11) reverse circulation (RC) drill holes (being holes **KGKRC017 and KGKRC018, KGKRC026, KGKRC32 to KGKRC035 and KGKRC037 to KGKRC040**).

The reported results include results from core drill holes (DD), **KGKDD003 and KGKDD004** and the core drilled extension of previously reported KGKRC009<sup>1</sup> now combined with the core extension and reported as **KGKRCDD009**.

All holes drilled have extensive intersections of mineralisation which are non-radioactive and having significant percentages of critical Rare Earths metal elements neodymium and praseodymium (NdPr).

## **DRILL ASSAY RESULTS**

The holes being reported in this announcement were designed to evaluate three areas:

- a) the northern area of the central carbonatite;
- b) the central western and eastern sides of the central carbonatite;
- c) the southern western area of central carbonatite complex; and
- d) the southern extent of the central carbonatite complex

### **1. Northern Area of Central Carbonatite**

Holes KGKRC18, KGKRC032, KGKRC034 and KGKRC037 are part of a radial pattern of holes testing the central northern area of the carbonatite complex.

KGKRC018 and KGKRC037 drilled were both drilled on 320 azimuths with 037 on a dip angle of -45° and 018 steeper at -60° dip. Both intersected extensive high grade carbonatite hosted mineralisation with KGKRC018 intersecting 184 metres at 3.55% TREO and KGKRC037 160 metres at 3.04% TREO. Figure 1 shows these holes in cross section with the previously reported KGKRC006 intersection of 300 metres at 2.30% TREO.

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<sup>1</sup> ASX:LIN Release 16 January 2023; "KANGANKUNDE DELIVERS MORE OUTSTANDING RARE EARTHS ASSAYS"

KGKRC018 was extended a further 113 metres with a core tail to a depth of 297 metres with samples currently being assayed.

Holes KGKRC032 and 034 were drilled to the east on azimuths of 046 and 076 and dips of -43 and -66 respectively. Both drill holes intersected strong mineralisation nearer surface with 032 intersecting 61 metres at 1.90% TREO from 2 metres, and KGKRC034 intersecting 22 metres at 2.87% TREO from 1 metre then 146 metres at 1.78% TREO from 35 metres hosted by carbonatite and mixed breccia rocks.

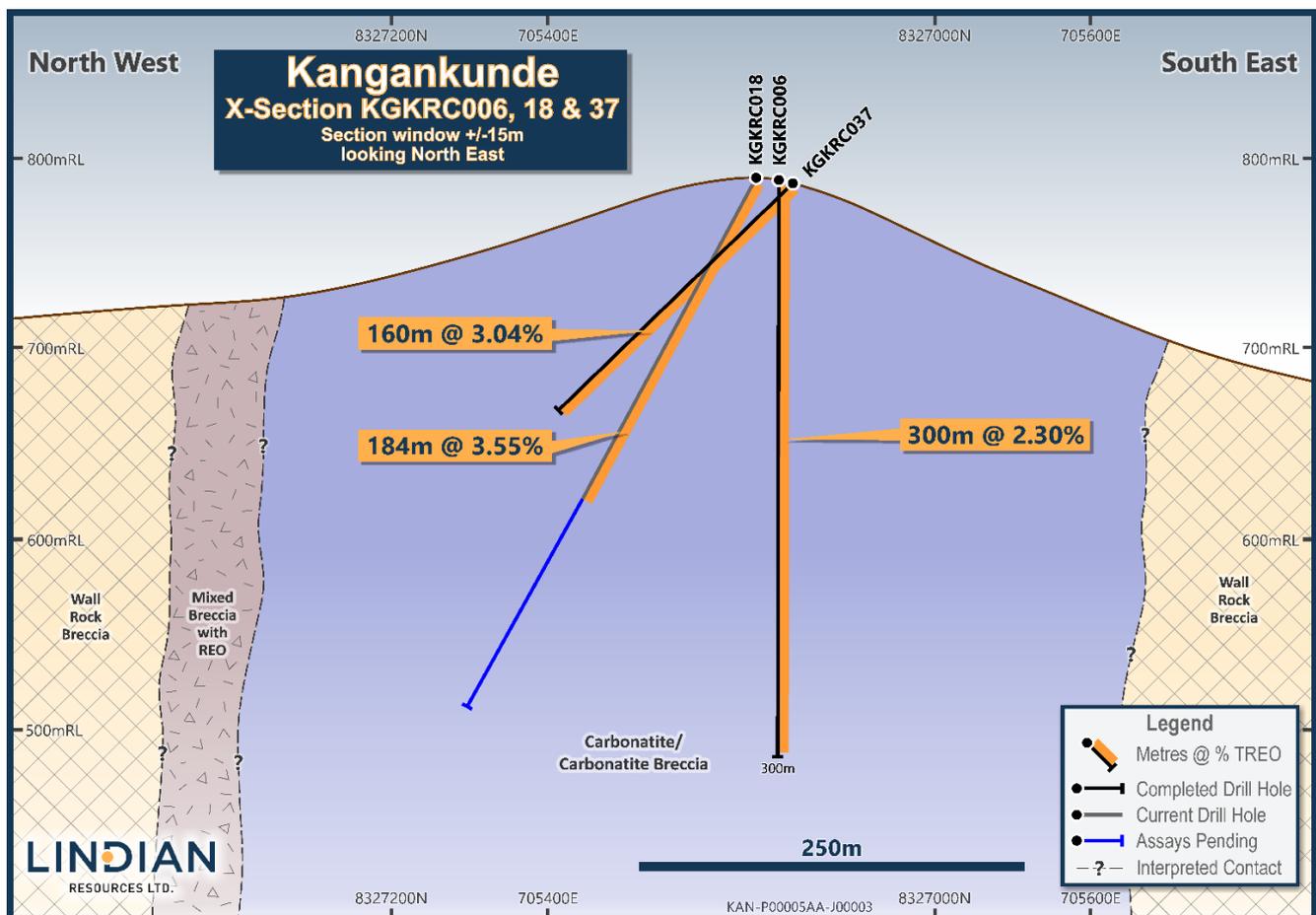


Figure 1: Cross section facing north east (refer A – A' in Figure 4) showing KGKRC018 and KGKRC037 in relation to the previously reported KGKRC006. 3

## 2. Western and Eastern Areas of Central Carbonatite Complex

Holes KGKDD001, KGKDD004, KGKRCDD009, KGKRC038 and KGKRC040 were drilled on section 8327050mN (Figure 2)

Holes KGKDD001, KGKRC038 and KGKRC040 were drilled testing the western margin and across the central area (DD001) of the central carbonatite. Holes KGKRC038 and 040 were drilled west at dips of -68 and -43 respectively. Both intersected carbonatite and mixed breccia rocks with 040 intersecting 167 metres at 2.68% TREO corresponding with the western carbonatite lens intersected 50 metres south in previously reported KGKRC005 and 007. KGKRC038 intersected more of the mixed breccia rock that separates the central carbonatite from the western lenses and returned an intersection of 181 metres at 1.76% TREO.

KGKDD001 was drilled from west to east across the main carbonatite area and intersected mostly carbonatite rocks with some zones of mixed breccia. The intersection from surface was 300 metres at 2.22% and links the western area of the main carbonatite with mineralised intersected further east.

Figure 2 is a north facing cross section illustrating holes KGKDD001, KGKRC0038 and KGKRC040 in relation to previously reported intersections and geometry.

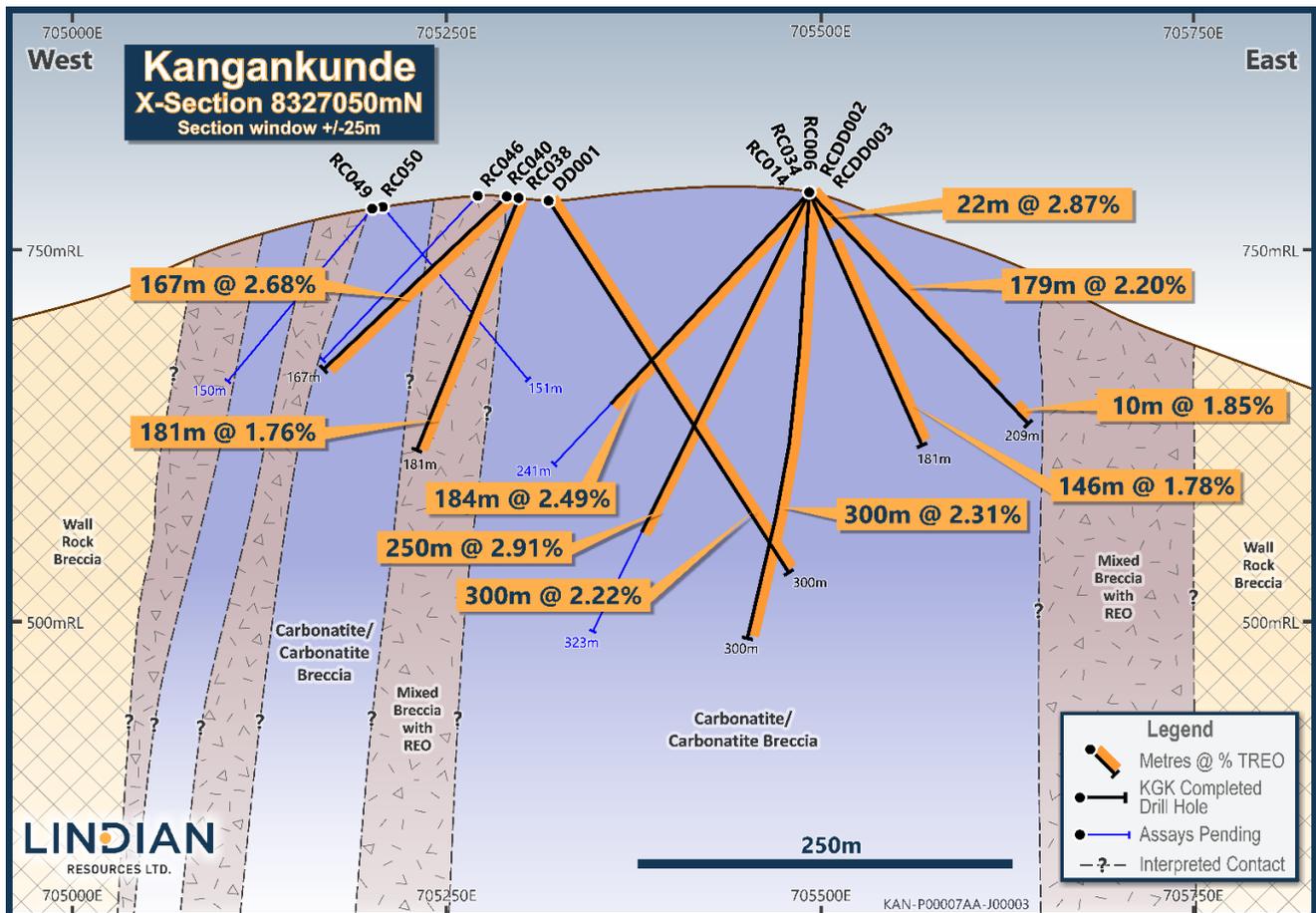


Figure 2: North facing cross section 8327050mN (refer B – B' in Figure 4) showing KGKDD001, KGKRC034, KGKRC038 and KGKRC040 in relation to the previously reported KGKRC002, KGKRC003, KGRC006, KHGKRC014.

Holes KGKDD003, KGKDD004, and KGKRCDD009 were drilled on an east-west section 8327000mN (Figure 4).

Holes KGKDD004 and KGKRCDD009 (core extension of previously reported KGKRC009) were both drilled to the east to test the eastern extents of the central carbonatite. Significant intersections of mineralisation in both holes with DD004 returning 245 metres at 2.78% TREO and KGKRCDD009 returning 317 metres at 2.70% TREO showing consistent mineralisation through the eastern side of the deposit.

KGKRCDD009 finished in carbonatite breccia and KGKDD004 intersected largely unmineralised carbonatite from 245 to 293 metres at which point it was terminated.

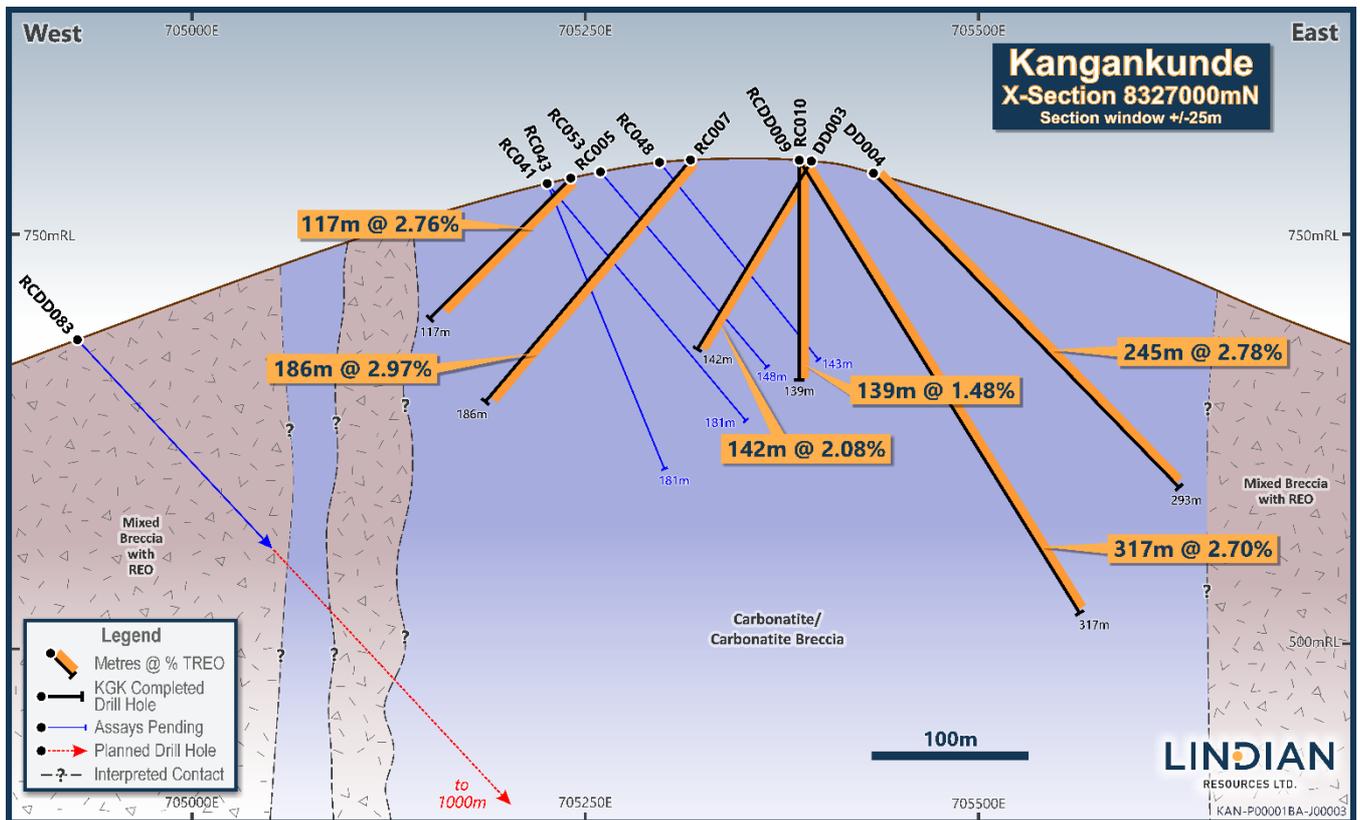


Figure 3: North facing cross section 8321000mN (refer C – C’ in Figure 4) showing KGKDD003, KGKDD004, KGKRCDD009 with previously reported KGKRC0052, KGKRC007, KGKRC006 and KGKRC010

### 3. Southwestern Area of Central Carbonatite

Holes KGKRC017, KGKRC026, KGKRC033 and KGKRC035 were drilled to test the southwestern margin of the central carbonatite.

All holes intersected low-grade rare-earth mineralisation relative to the other areas of the deposit.

KGKRC017 (163 metres at 1.41% TREO from surface) intersected mineralised mixed breccia from surface to 85 metres depth followed by a carbonatite with abundant magnetite and low-grade rare earths.

Holes KGK026, 033 and 035 all intersected mineralised mixed breccia dominantly with sections of mineralised and unmineralised carbonatite.

The intersections from these holes in are shown in plan view on Figure 4.

### 4. South Central Carbonatite

Three drill holes were designed on a radial fan to test the carbonatite and locate the contact with the surrounding mixed breccia in the southern lode of the central carbonatite. This area has not been tested by historic drilling or trenching.

KGKRC039 is the only of the three holes drilled with data received to date. It intersected highly mineralised carbonatite and carbonatite breccia recording an interval of 150 metres at 3.02% TREO from surface including 29 metres at 4.70% TREO from surface.

This high grade intersection is very encouraging due to the relatively unknown geology of the southern area.

The intersection in KGKRC039 is shown in plan view on Figure 4.

Table 1 below lists the significant intersections reported in this announcement.

**Table 1: Significant rare earth intersections\***

| Hole ID           | From (m) | To (m)        | Intersection (m) | TREO %      | NdPrO** ppm  | NdPrO% of TREO*** |
|-------------------|----------|---------------|------------------|-------------|--------------|-------------------|
| <b>KGKDD001</b>   | <b>0</b> | <b>316.16</b> | <b>316.16</b>    | <b>2.22</b> | <b>4,521</b> | <b>20.4%</b>      |
| including         | 0        | 65.9          | 65.9             | 2.72        | 5,327        | 19.6%             |
|                   | 140      | 300.16        | 160.61           | 2.41        | 4,997        | 20.7%             |
| <b>KGKDD003</b>   | <b>0</b> | <b>141.9</b>  | <b>141.9</b>     | <b>2.08</b> | <b>4,359</b> | <b>21.0%</b>      |
| including         | 62.3     | 78.4          | 16.1             | 2.50        | 5,330        | 21.3%             |
|                   | 85.9     | 111.9         | 26.0             | 2.99        | 6,188        | 20.7%             |
|                   | 117.2    | 127.2         | 10.0             | 2.70        | 4,921        | 18.2%             |
|                   | 134.1    | 141.9         | 7.80             | 5.68        | 10,457       | 18.4%             |
| <b>KGKDD004</b>   | <b>0</b> | <b>245.4</b>  | <b>245.40</b>    | <b>2.78</b> | <b>5,613</b> | <b>20.2%</b>      |
| including         | 65.4     | 119           | 53.60            | 3.13        | 6,565        | 21.0%             |
|                   | 127      | 190.6         | 63.60            | 3.03        | 6,060        | 20.0%             |
|                   | 205.3    | 245.4         | 40.10            | 3.34        | 5,809        | 17.4%             |
| <b>KGKRCDD009</b> | <b>0</b> | <b>317.2</b>  | <b>317.2</b>     | <b>2.70</b> | <b>5,467</b> | <b>20.2%</b>      |
| including         | 38       | 129           | 91.00            | 2.48        | 5,476        | 22.1%             |
|                   | 132      | 316.2         | 184.20           | 3.07        | 5,940        | 19.3%             |
| <b>KGKRC017</b>   | <b>0</b> | <b>163</b>    | <b>163</b>       | <b>1.41</b> | <b>3,099</b> | <b>22.0%</b>      |
| including         | 26       | 51            | 25               | 2.76        | 5,867        | 21.3%             |
| <b>KGKRC018</b>   | <b>4</b> | <b>188</b>    | <b>184</b>       | <b>3.55</b> | <b>7,124</b> | <b>20.1%</b>      |
| <b>KGKRC026</b>   | <b>0</b> | <b>168</b>    | <b>168</b>       | <b>1.21</b> | <b>2,745</b> | <b>22.7%</b>      |
| <b>KGKRC032</b>   | <b>2</b> | <b>63</b>     | <b>61</b>        | <b>1.90</b> | <b>3,734</b> | <b>19.7%</b>      |
| <b>KGKRC033</b>   | <b>0</b> | <b>169</b>    | <b>169</b>       | <b>2.05</b> | <b>4,446</b> | <b>21.7%</b>      |
| including         | 42       | 145           | 103              | 2.38        | 5,053        | 21.2%             |
| <b>KGKRC034</b>   | <b>1</b> | <b>23</b>     | <b>22</b>        | <b>2.87</b> | <b>5,755</b> | <b>20.1%</b>      |
| and               | 35       | 181           | 146              | 1.78        | 3,986        | 22.4%             |
| <b>KGKRC035</b>   | <b>0</b> | <b>147</b>    | <b>147</b>       | <b>1.28</b> | <b>3,083</b> | <b>24.1%</b>      |
| <b>KGKRC037</b>   | <b>0</b> | <b>160</b>    | <b>160</b>       | <b>3.04</b> | <b>6,209</b> | <b>20.4%</b>      |
| <b>KGKRC038</b>   | <b>0</b> | <b>181</b>    | <b>181</b>       | <b>1.76</b> | <b>3,302</b> | <b>18.8%</b>      |
| including         | 0        | 38            | 38               | 2.01        | 3,806        | 18.9%             |
|                   | 52       | 87            | 32               | 2.07        | 4,058        | 19.6%             |
|                   | 127      | 143           | 16               | 2.00        | 3,437        | 17.2%             |
|                   | 173      | 181           | 8                | 2.28        | 3,759        | 16.5%             |
| <b>KGKRC039</b>   | <b>0</b> | <b>150</b>    | <b>150</b>       | <b>3.02</b> | <b>6,890</b> | <b>22.8%</b>      |
| including         | 0        | 29            | 29               | 4.70        | 9,542        | 20.3%             |
| <b>KGKRC040</b>   | <b>0</b> | <b>167</b>    | <b>167</b>       | <b>2.68</b> | <b>4,600</b> | <b>17.2%</b>      |
| including         | 0        | 44            | 44               | 2.46        | 4,596        | 18.7%             |
|                   | 62       | 73            | 11               | 2.36        | 4,345        | 18.4%             |
|                   | 83       | 103           | 20               | 3.12        | 4,689        | 15.0%             |
|                   | 113      | 167           | 54               | 3.59        | 5,918        | 16.5%             |

\* Bold text entire hole no cut-off applied; internal intersections accumulated at > 2% TREO cut-off.

\*\* NdPrO = Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub>, \*\*\* NdPrO% / TREO% x 100

### Neodymium and Praseodymium Ratio

The mineralisation is dominated by light rare earths cerium (Ce), lanthanum (La), neodymium (Nd) and praseodymium (Pr). The total of Nd+Pr content in oxide form constitutes on average of 20% of the TREO in all holes reported in this release.

### Non-Radioactive Mineralisation

Radionuclides uranium (U) and thorium (Th) continue to be low in all drilling. Table 2 shows the average content for the each of the reported drill holes. Detailed individual interval assays are shown in Appendix 2 of this release.

**Table 2: Average radionuclides thorium and uranium content of mineralisation**

| Hole ID    | From (m) | To (m)       | Intersection (m) | Th ppm | U ppm |
|------------|----------|--------------|------------------|--------|-------|
| KGKDD001   | 0        | 300.61 (EOH) | 300.61           | 44     | 10    |
| KGKDD003   | 0        | 145.2 (EOH)  | 145.2            | 45     | 10    |
| KGKDD004   | 0        | 293.39 (EOH) | 293.39           | 63     | 6     |
| KGKRCDD009 | 0        | 317.2 (EOH)  | 317.2            | 54     | 8     |
| KGKRC017   | 0        | 163 (EOH)    | 163              | 40     | 9     |
| KGKRC018   | 18       | 181 (EOH)    | 163              | 78     | 3     |
| KGKRC026   | 0        | 168 (EOH)    | 168              | 53     | 9     |
| KGKRC032   | 2        | 181 (EOH)    | 179              | 36     | 7     |
| KGKRC033   | 0        | 169 (EOH)    | 169              | 33     | 4     |
| KGKRC034   | 0        | 181 (EOH)    | 181              | 48     | 9     |
| KGKRC035   | 0        | 147 (EOH)    | 147              | 48     | 8     |
| KGKRC037   | 0        | 160 (EOH)    | 160              | 67     | 5     |
| KGKRC038   | 0        | 181 (EOH)    | 181              | 23     | 3     |
| KGKRC039   | 0        | 150 (EOH)    | 150              | 50     | 2     |
| KGKRC040   | 0        | 167 (EOH)    | 167              | 30     | 2     |

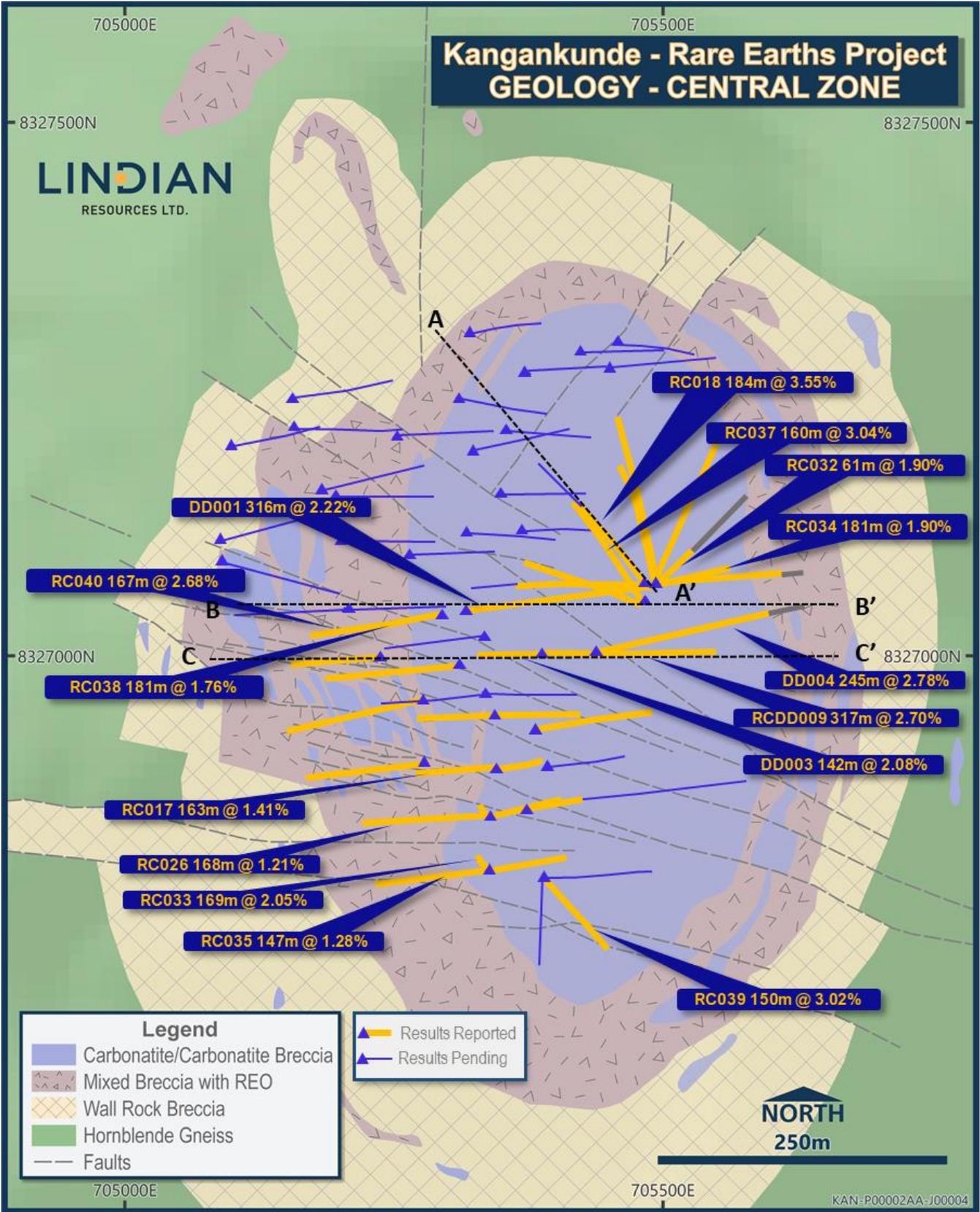


Figure 4 Kangankunde central carbonatite geology plan with drill intersections reported to date and pending hole locations.



### PHASE 1 PROGRAM STATUS

The Phase 1 program has been completed with 81 RC holes for 12,520 metres and 10 core drill holes, including 6 core tails to RC holes for 1,642.7 metres. The program was designed to give initial data for resource evaluation and mine planning.

Two RC rigs have demobilised from site with the remaining core drilling rig conducting the Phase 2 depth extension drilling.

The status of the drill hole sampling and assay is as follows:

**Table 3: Completed drill hole sampling and assay status at 14th March 2023**

| Hole Number | Reported | ALS Geochemistry (Australia) | ALS Geochemistry (South Africa) | In transit (Malawi to South Africa) | At Kangankunde Site |
|-------------|----------|------------------------------|---------------------------------|-------------------------------------|---------------------|
| KGKRC001    | ✓        |                              |                                 |                                     |                     |
| KGKRC002    | ✓        |                              |                                 |                                     |                     |
| KGKRC003    | ✓        |                              |                                 |                                     |                     |
| KGKRC004    | ✓        |                              |                                 |                                     |                     |
| KGKRC005    | ✓        |                              |                                 |                                     |                     |
| KGKRC006    | ✓        |                              |                                 |                                     |                     |
| KGKRC007    | ✓        |                              |                                 |                                     |                     |
| KGKRC008    | ✓        |                              |                                 |                                     |                     |
| KGKRC009    | ✓        |                              |                                 |                                     |                     |
| KGKRC010    | ✓        |                              |                                 |                                     |                     |
| KGKRC011    | ✓        |                              |                                 |                                     |                     |
| KGKRC012    | ✓        |                              |                                 |                                     |                     |
| KGKRC013    | ✓        |                              |                                 |                                     |                     |
| KGKRC014    | ✓        |                              |                                 |                                     |                     |
| KGKRC015    | ✓        |                              |                                 |                                     |                     |
| KGKRC016    | ✓        |                              |                                 |                                     |                     |
| KGKRC017    | ✓        |                              |                                 |                                     |                     |
| KGKRC018    | ✓        |                              |                                 |                                     |                     |
| KGKRC019    | ✓        |                              |                                 |                                     |                     |
| KGKRC020    | ✓        |                              |                                 |                                     |                     |
| KGKRC021    | ✓        |                              |                                 |                                     |                     |
| KGKRC022    | ✓        |                              |                                 |                                     |                     |
| KGKRC023    | ✓        |                              |                                 |                                     |                     |
| KGKRC024    | ✓        |                              |                                 |                                     |                     |
| KGKRC025    | ✓        |                              |                                 |                                     |                     |
| KGKRC026    | ✓        |                              |                                 |                                     |                     |
| KGKRC027    | ✓        |                              |                                 |                                     |                     |
| KGKRC028    | ✓        |                              |                                 |                                     |                     |
| KGKRC029    | ✓        |                              |                                 |                                     |                     |
| KGKRC030    | ✓        |                              |                                 |                                     |                     |
| KGKRC031    | ✓        |                              |                                 |                                     |                     |
| KGKRC032    | ✓        |                              |                                 |                                     |                     |

| Hole Number | Reported | ALS Geochemistry<br>(Australia) | ALS Geochemistry<br>(South Africa) | In transit<br>(Malawi to<br>South Africa) | At Kangankunde Site |
|-------------|----------|---------------------------------|------------------------------------|---|---------------------|
| KGKRC033    | ✓        |                                 |                                    |   |                     |
| KGKRC034    | ✓        |                                 |                                    |   |                     |
| KGKRC035    | ✓        |                                 |                                    |   |                     |
| KGKRC036    |          | ✓                               |                                    |   |                     |
| KGKRC037    | ✓        |                                 |                                    |   |                     |
| KGKRC038    | ✓        |                                 |                                    |   |                     |
| KGKRC039    | ✓        |                                 |                                    |   |                     |
| KGKRC040    | ✓        |                                 |                                    |   |                     |
| KGKRC041    |          | ✓                               |                                    |   |                     |
| KGKRC042    |          | ✓                               |                                    |   |                     |
| KGKRC043    |          | ✓                               |                                    |   |                     |
| KGKRC044    |          | ✓                               |                                    |   |                     |
| KGKRC045    |          | ✓                               |                                    |   |                     |
| KGKRC046    |          | ✓                               |                                    |   |                     |
| KGKRC047    |          | ✓                               |                                    |   |                     |
| KGKRC048    |          | ✓                               |                                    |   |                     |
| KGKRC049    |          | ✓                               |                                    |   |                     |
| KGKRC050    |          | ✓                               |                                    |   |                     |
| KGKRC051    |          | ✓                               |                                    |   |                     |
| KGKRC052    |          | ✓                               |                                    |   |                     |
| KGKRC053    |          | ✓                               |                                    |   |                     |
| KGKRC054    |          | ✓                               |                                    |   |                     |
| KGKRC055    |          | ✓                               |                                    |   |                     |
| KGKRC056    |          | ✓                               |                                    |   |                     |
| KGKRC057    |          | ✓                               |                                    |   |                     |
| KGKRC058    |          | ✓                               |                                    |   |                     |
| KGKRC059    |          | ✓                               |                                    |   |                     |
| KGKRC060    |          | ✓                               |                                    |   |                     |
| KGKRC061    |          |                                 | ✓                                  |   |                     |
| KGKRC062    |          |                                 | ✓                                  |   |                     |
| KGKRC063    |          |                                 | ✓                                  |   |                     |
| KGKRC064    |          |                                 | ✓                                  |   |                     |
| KGKRC065    |          |                                 | ✓                                  |   |                     |
| KGKRC066    |          |                                 | ✓                                  |   |                     |
| KGKRC067    |          |                                 | ✓                                  |   |                     |
| KGKRC068    |          |                                 | ✓                                  |   |                     |
| KGKRC069    |          |                                 |                                    | ✓   |                     |
| KGKRC070    |          |                                 |                                    | ✓   |                     |
| KGKRC071    |          |                                 |                                    | ✓   |                     |
| KGKRC072    |          |                                 |                                    | ✓   |                     |
| KGKRC073    |          |                                 |                                    |   | ✓                   |

| Hole Number | Reported | ALS Geochemistry<br>(Australia) | ALS Geochemistry<br>(South Africa) | In transit<br>(Malawi to<br>South Africa) | At Kangankunde Site |
|-------------|----------|---------------------------------|------------------------------------|---|---------------------|
| KGKRC074    |          |                                 |                                    |   | ✓                   |
| KGKRC075    |          |                                 |                                    |   | ✓                   |
| KGKRC076    |          |                                 |                                    |   | ✓                   |
| KGKRC077    |          |                                 |                                    |   | ✓                   |
| KGKRC078    |          |                                 |                                    |   | ✓                   |
| KGKRC079    |          |                                 |                                    |   | ✓                   |
| KGKRC080    |          |                                 |                                    |   | ✓                   |
| KGKRC081    |          |                                 |                                    |   | ✓                   |
| KGKRC082    |          |                                 |                                    |   | ✓                   |
| KGKRC083    |          |                                 |                                    |   | ✓                   |
| KGK DD001   | ✓        |                                 |                                    |   |                     |
| KGK DD002   | ✓        |                                 |                                    |   |                     |
| KGKDD003    | ✓        |                                 |                                    |   |                     |
| KGKDD004    | ✓        |                                 |                                    |   |                     |
| KGKRCDD001  |          | ✓                               |                                    |   |                     |
| KGKRCDD002  |          | ✓                               |                                    |   |                     |
| KGKRCDD003  |          | ✓                               |                                    |   |                     |
| KGKRCDD009  | ✓        |                                 |                                    |   |                     |
| KGKRCDD018  |          |                                 | ✓                                  |   |                     |
| KGKRCDD029  |          |                                 |                                    | ✓   |                     |

## PREVIOUSLY REPORTED DRILL RESULTS

Table 4 below summarises previous drill results and the related ASX release date. **Error! Reference source not found.** 4 shows previously reported intersections and pending drill results with the planned deep exploration hole to be conducted in Phase 2 of the drilling program.

Table 4: Previously released drilling results;

| Hole ID   | From<br>(m) | To<br>(m) | Intersection<br>(m) | TREO<br>% | NdPrO%<br>of TREO** | ASX release Date*             |
|-----------|-------------|-----------|---------------------|-----------|---------------------|-------------------------------|
| KGKDD002  | 0           | 31.62     | 31.62               | 2.26      | 17                  | 9 <sup>th</sup> March 2023    |
| and       | 62.17       | 188.17    | 126                 | 2.82      | 17                  | 9 <sup>th</sup> March 2023    |
| KGKRC001  | 0           | 110       | 110                 | 2.9       | 21                  | 5 <sup>th</sup> January 2023  |
| KGKRC002  | 0           | 250       | 250                 | 2.9       | 21                  | 5 <sup>th</sup> January 2023  |
| KGKRC003  | 0           | 184       | 184                 | 2.5       | 21                  | 16 <sup>th</sup> January 2023 |
| KGKRC004  | 0           | 97        | 97                  | 2.8       | 20                  | 16 <sup>th</sup> January 2023 |
| KGKRC005  | 0           | 117       | 117                 | 2.8       | 16                  | 24 <sup>th</sup> January 2023 |
| KGKRC006  | 0           | 300       | 300                 | 2.3       | 20                  | 16 <sup>th</sup> January 2023 |
| KGKRC007  | 0           | 186       | 186                 | 3.0       | 17                  | 24 <sup>th</sup> January 2023 |
| KGKRC008  | 0           | 272       | 272                 | 2.1       | 19                  | 16 <sup>th</sup> January 2023 |
| KGKRC009  | 0           | 131       | 131                 | 2.1       | 22                  | 24 <sup>th</sup> January 2023 |
| KGKRC010  | 0           | 138       | 138                 | 1.5       | 22                  | 24 <sup>th</sup> January 2023 |
| KGKRC011  | 0           | 32        | 32                  | 2.7       | 17                  | 24 <sup>th</sup> January 2023 |
| KGKRC012  | 0           | 210       | 210                 | 1.9       | 20                  | 6 <sup>th</sup> February 2023 |
| KGKRC013  | 0           | 162       | 162                 | 2.2       | 22                  | 6 <sup>th</sup> February 2023 |
| KGKRC014  | 0           | 179       | 179                 | 2.2       | 23                  | 6 <sup>th</sup> February 2023 |
| KGKRC0015 | 0           | 160       | 160                 | 2.04      | 19                  | 9 <sup>th</sup> March 2023    |
| KGKRC0019 | 0           | 56        | 56                  | 1.78      | 19                  | 9 <sup>th</sup> March 2023    |
| KGKRC020  | 0           | 167       | 167                 | 2.85      | 18                  | 9 <sup>th</sup> March 2023    |
| KGKRC021  | 0           | 89        | 89                  | 1.26      | 19                  | 9 <sup>th</sup> March 2023    |
| KGKRC022  | 0           | 146       | 146                 | 1.34      | 18                  | 9 <sup>th</sup> March 2023    |
| KGKRC023  | 0           | 28        | 28                  | 2.87      | 20                  | 9 <sup>th</sup> March 2023    |
| KGKRC024  | 0           | 169       | 169                 | 1.50      | 20                  | 9 <sup>th</sup> March 2023    |
| KGKRC0025 | 0           | 109       | 109                 | 1.56      | 20                  | 9 <sup>th</sup> March 2023    |
| KGKRC027  | 0           | 79        | 79                  | 2.63      | 22                  | 9 <sup>th</sup> March 2023    |
| and       | 110         | 170       | 60                  | 2.45      | 22                  | 9 <sup>th</sup> March 2023    |
| KGKRC0028 | 0           | 169       | 169                 | 1.74      | 22                  | 9 <sup>th</sup> March 2023    |
| KGKRC029  | 0           | 58        | 58                  | 1.18      | 24                  | 9 <sup>th</sup> March 2023    |
| and       | 58          | 84        | 26                  | 6.15      | 20                  | 9 <sup>th</sup> March 2023    |
| KGKRC030  | 0           | 188       | 188                 | 1.61      | 21                  | 9 <sup>th</sup> March 2023    |
| KGKRC031  | 0           | 175       | 175                 | 2.31      | 21                  | 9 <sup>th</sup> March 2023    |

\*refer to Company website for the date of the ASX announcement for the reporting of exploration results

\*\* NdPrO% / TREO% x 100

## PROGRAM SUMMARY

The Kangankunde drilling programs are planned in separate phases with distinct target outcomes. The Company commenced drilling at Kangankunde in late October 2023 with the intention to undertake a drill program that will culminate in a mineral resources estimate during the upcoming quarter.

## **PHASE 1 DRILL PROGRAM (MINE DEFINITION)**

The Phase 1 program has now concluded with 12,520 metres of RC drilling completed (83 RC holes) and 1,642.7 metres of core drilling (4 diamond core holes) on the Kangankunde hill top. The program was designed to give initial data for resource evaluation and mine planning.

Two RC rigs have demobilised from site with the remaining core drilling rig conducting the Phase 2 depth extension drilling.

## **PHASE 2 DRILL PROGRAM (DEPTH EXTENSION)**

Drilling has commenced on the Phase 2 program with RC precollars completed to a downhole depth of 150 metres at two sites on the western side of the Central Carbonatite.

A core drilling rig has commenced drilling the first core from the base of one of the precollars.

The two drill holes, each planned to be 1,000 metres in length, are designed to test the E-W axes of the carbonatite between 300 metres and 800 metres below the hill top, approximately 500 metres below the current deepest drilling.

## **METALLURGY**

Preliminary metallurgical testwork has demonstrated a mineral concentrate of ~60% and a recovery of circa 70% using water-only, low-cost gravity and magnetic beneficiation techniques.

Lindian will continue to refine the use of gravity and magnetic separation techniques, and expects to further improve the REO recovery and REO concentrate grade, with finer grinding a key variable to be tested to improve recovery and concentrate grade

Refer ASX announcement of 11 April 2023.

## **MINERAL RESOURCE ESTIMATION**

Lindian expects to deliver its maiden Mineral Resource Estimate during the current quarter incorporating the drilling results from the Phase One Drill program and metallurgical work programs currently in progress.

-ENDS-

This ASX announcement was authorised for release by the Lindian Board.

### **For further information, please contact:**

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**Email:** [info@lindianresources.com.au](mailto:info@lindianresources.com.au)

**Alistair Stephens (CEO)**

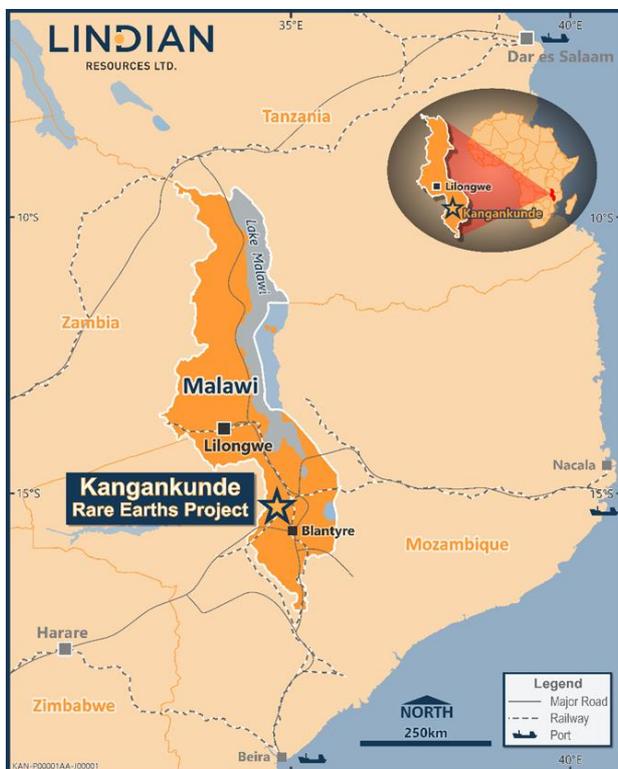
**Phone:** +61 488 992 544

**Email:** [info@lindianresources.com.au](mailto:info@lindianresources.com.au)

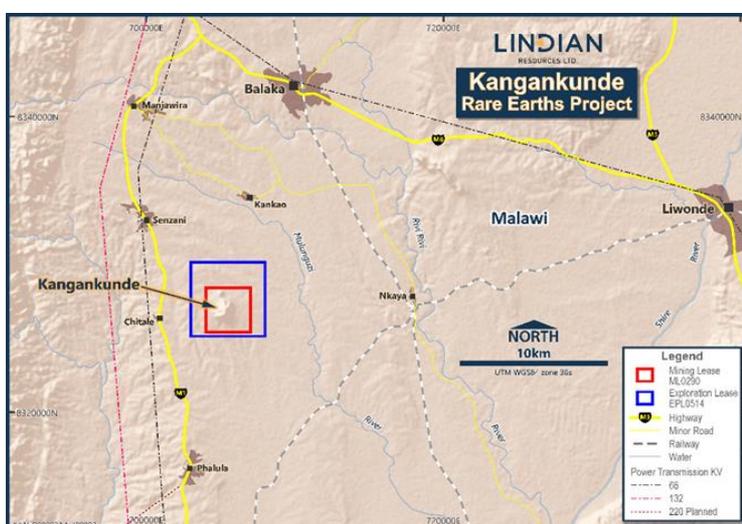
## About Lindian

### RARE EARTHS

**Lindian Resources Limited** will progressively acquire 100% of Malawian registered Rift Valley Resource Developments Limited and its 100% owned title to Exploration Licence EPL0514/18R and Mining Licence MML0290/22 (refer ASX announcement ASX:LIN dated 1 August 2022) issued under the Malawi Mines and Minerals Act 2018. The Exploration and Mining Licences have an Environmental and Social Impact Assessment Licence No.2:10:16 issued under the Malawi Environmental Management Act No. 19 of 2017. The Kangankunde Project, located within MML0290, has been subject to significant historic exploration by Lonrho Plc (Lonrho) in the 1970's and the French geoscience Bureau de Recherches Géologiques et Minières (BRGM) in the 1990's. The project has an underground adit (a horizontal drive with cross cuts extending at least 300 metre underground) and exploration sampling by trenching and drilling has identified significant non-radioactive monazite mineralisation over a footprint of at least 800m by 800m.



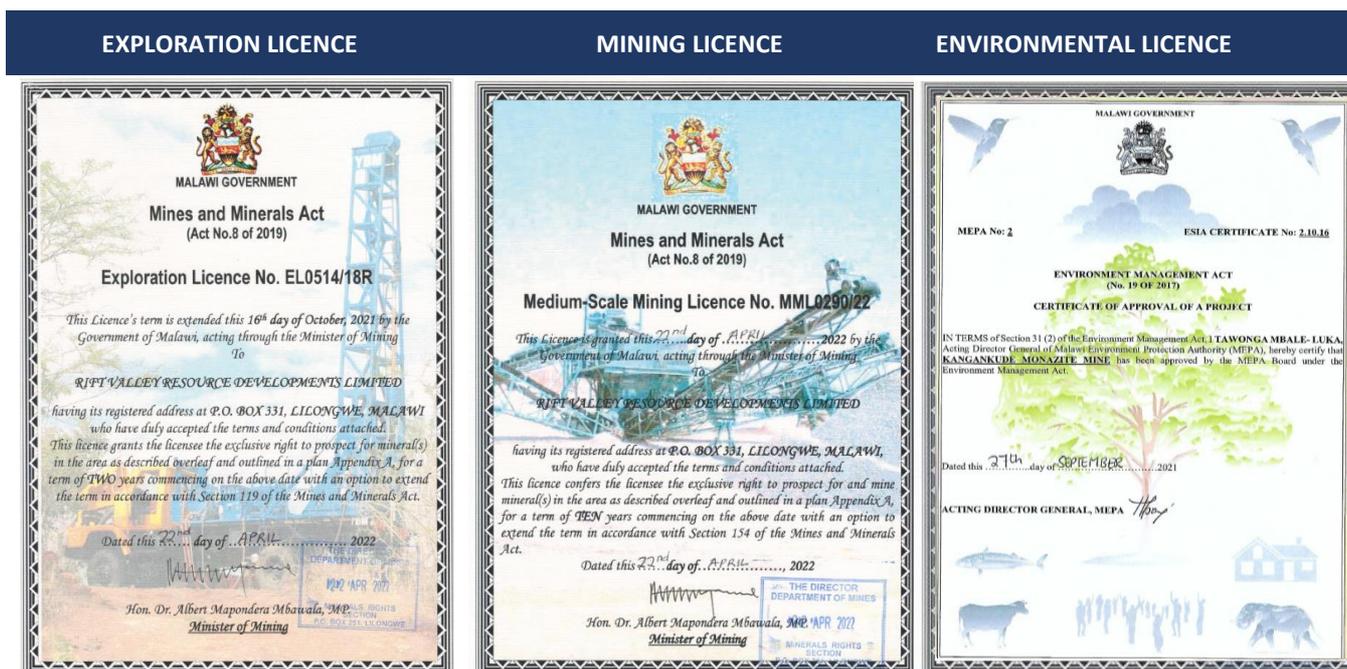
**Malawi** is a country in southern and eastern Africa that parallels the great Lake Malawi, the 5th largest freshwater lake in the world that fills part of the massive rift valley of the Africa continent. Malawi is a peaceful country known ubiquitously as “the warm heart of Africa”, with a government and legal system emanated from the English Westminster system (from colonial rule up to 1964). The Malawi economy is currently heavily reliant on agriculture, a small manufacturing sector and foreign aid. Over 80% of Malawians living in rural areas are engaged in traditional subsistence agriculture. The mining industry in Malawi is in its infancy with a new Mining Act introduced in 2019 expected to forge the way for significant expansion and growth. Having seen the impact of mining in neighbouring countries, the Malawi Government has placed mining as the primary growth sector to diversify the Malawi economy and improve living conditions for its people. A growing mining industry is the central plank of the current President’s plans for employment. Significant mineral endowment exists in the form of rare earths, uranium, niobium, tantalum, and graphite in a country substantially underexplored.



**Kangankunde** is located 90 kilometres north of the city of Blantyre, the main economic and commercial centre in Malawi. The town of Balaka, 15 kilometres to the north of Kangankunde, a regional trade centre, has a population of about 36,000 people. The project is located close to the main M1 highway, rail lines to ports and high voltage transmission lines.

## Tenure and licences

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## BAUXITE

**Lindian Resources Limited** has over 1 billion tonnes of **Bauxite** resources (refer company website for access to resources statements and competent persons statements) in Guinea with the Gaoual, Lelouma and Woula projects. Guinean bauxite is known as the premier bauxite location in the world, having high grade and low impurities premium quality bauxite.

**Guinea** is a country in western Africa located on the Atlantic coast. Most of the country has a humid tropical climate. Its topography varies from coastal plains to inland mountains that account for about 60 per cent of the land area. Several of West Africa's major rivers, in particular the Niger, Senegal and Gambia, all originate from these highlands, making Guinea the 'water tower' of West Africa. Its developing mixed economy is based on agriculture, mining, and trade. Over 80% of its population of ~12 million people are engaged in agriculture. Major crops include rice, bananas, cashews, cocoa and coffee. Its Atlantic shoreline supports a large-scale fishing industry and has developed large commercial harbors, such as Conakry and Kamsar. Guinea is endowed with huge deposits of mineral resources. It has extremely large high-quality deposits of bauxite (nearly one-third of the world's total bauxite resources) and iron ore and is a gold and diamond producer. Mining currently contributes 25% of Guinea's GDP. Thanks to these mineral resources, Guinea has the potential of being one of Africa's richest countries. Guinea, under the name French Guinea, was a part of French West Africa achieved independence in 1958. It remained relatively stable politically until the 1990s when Guinea accommodated several hundred thousand war refugees from neighbouring Liberia and Sierra Leone, and since this time conflicts between those countries and Guinea have continued to flare up over the refugee population since. Recently in September 2021, Lt Col Doumouya, the commander of country's special forces, overthrew the President in a military coup; establishing a National Committee of Reconciliation and Development with himself as chairman, ordering the release of political prisoners, and announcing an 18-month transition to democracy. In recent months, despite the current complex political landscape, tensions in the country have settled and life in Guinea has returned to normality.

## Forward Looking Statements

This announcement may include forward-looking statements, based on Lindian's expectations and beliefs concerning future events. Forward-looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of Lindian, which could cause actual results to differ materially from such statements. Lindian makes no undertaking to subsequently update or revise the forward-looking statements made in this announcement, to reflect the circumstances or events after the date of the announcement.

## Competent Persons Statements

The information in this Report that relates to drilling, sampling, and assay results is based on information compiled by Mr. Alistair Stephens, who is a Fellow of the Australian Institute of Mining and Metallurgy (AusIMM). Mr. Stephens is the Chief Executive Officer of Lindian Resources Limited. Mr. Stephens has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (JORC Code).

Mr. Stephens consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

Unless otherwise stated, where reference is made to previous releases of exploration results in this announcement, the Company conforms that it is not aware of any new information or data that materially affects the information included in those announcements and all material assumptions and technical parameters underpinning the exploration results included in those announcements continue to apply and have not materially changed.

The information in this report that relates to previous Exploration Results was prepared and first disclosed under the JORC Code 2012 and has been properly and extensively cross-referenced in the text to the date of the original announcement to the ASX.

### Appendix 1: Kangankunde Rare Earths Project Hole Details (Datum UTM WGS84 Zone 36S)

| Drill Hole ID | Drill Type | UTM East (m.) | UTM North (m.) | Elevation (m.a.s.l.) | Hole Length EOH (m.) | Azimuth (Average) | Inclination (Average) |
|---------------|------------|---------------|----------------|----------------------|----------------------|-------------------|-----------------------|
| KGKDD001      | DD         | 705315        | 8327039        | 785                  | 300.61               | 083               | -57                   |
| KGKDD003      | DD         | 705393        | 8326999        | 800                  | 145.21               | 271               | -59                   |
| KGKDD004      | DD         | 705433        | 8326998        | 791                  | 293.39               | 077               | -44                   |
| KGKRC017      | RC         | 705345        | 8326893        | 794                  | 163                  | 265               | -61                   |
| KGKRC018      | RC         | 705479        | 8327069        | 788                  | 181                  | 320               | -62                   |
| KGKRC026      | RC         | 705336        | 8326849        | 792                  | 168                  | 266               | -45                   |
| KGKRC032      | RC         | 705500        | 8327067        | 787                  | 181                  | 046               | -43                   |
| KGKRC033      | RC         | 705341        | 8326798        | 798                  | 169                  | 067               | -85                   |
| KGKRC034      | RC         | 705491        | 8327061        | 787                  | 181                  | 076               | -66                   |
| KGKRC035      | RC         | 705333        | 8326797        | 797                  | 147                  | 260               | -45                   |
| KGKRC037      | RC         | 705483        | 8327049        | 786                  | 160                  | 325               | -45                   |
| KGKRC038      | RC         | 705296        | 8327040        | 785                  | 181                  | 254               | -68                   |
| KGKRC039      | RC         | 705391        | 8326785        | 796                  | 150                  | 138               | -55                   |
| KGKRC040      | RC         | 705290        | 8327036        | 786                  | 167                  | 261               | -43                   |
| KGKRCDD009    | RCDD       | 705386        | 8327001        | 800                  | 317.2                | 089               | -58                   |

\* Planned hole orientations.



## Appendix 2: Analytical Results This Release

Note: NS= No sample

| Hole ID  | From m | To m   | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|----------|--------|--------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
| KGKDD001 | 0.0    | 2.0    | 10,543                             | 19,839               | 1,891                              | 5,622                              | 387                                | 61.4                               | 108.8                              | 7.7                                | 25.1                               | 2.8                                | 5.6                                | 0.5                                | 3.1                                | 0.4                                | 68.6                              | 3.86   | 58.1   | 3.8   |
|          | 2.0    | 3.0    | 9,617                              | 18,303               | 1,758                              | 5,155                              | 322                                | 49.3                               | 78.7                               | 5.4                                | 16.3                               | 1.6                                | 2.5                                | 0.2                                | 1.1                                | 0.1                                | 34.3                              | 3.53   | 54.5   | 1.8   |
|          | 3.0    | 4.0    | 9,852                              | 17,873               | 1,685                              | 4,957                              | 349                                | 57.4                               | 102.5                              | 7.2                                | 22.6                               | 2.1                                | 3.1                                | 0.3                                | 1.0                                | 0.2                                | 47.0                              | 3.50   | 131.5  | 0.6   |
|          | 4.0    | 4.6    | 4,562                              | 8,722                | 848                                | 2,554                              | 181                                | 30.0                               | 52.6                               | 4.2                                | 13.1                               | 1.3                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 1.70   | 71.1   | 0.9   |
|          | 4.6    | 5.2    | 7,166                              | 13,942               | 1,365                              | 4,071                              | 274                                | 42.3                               | 69.0                               | 4.9                                | 15.2                               | 1.6                                | 2.3                                | 0.2                                | 1.0                                | 0.2                                | 34.3                              | 2.70   | 42.7   | 1.5   |
|          | 5.2    | 5.6    | 8,104                              | 15,478               | 1,480                              | 4,432                              | 306                                | 50.8                               | 92.3                               | 7.7                                | 23.1                               | 2.1                                | 2.9                                | 0.2                                | 0.8                                | 0.1                                | 45.7                              | 3.00   | 84.4   | 0.5   |
|          | 5.6    | 6.3    | 11,904                             | 20,453               | 1,867                              | 5,330                              | 373                                | 59.5                               | 102.6                              | 7.7                                | 25.6                               | 2.6                                | 3.7                                | 0.3                                | 1.7                                | 0.2                                | 59.7                              | 4.02   | 64.9   | 1     |
|          | 6.3    | 7.2    | 10,414                             | 17,505               | 1,571                              | 4,502                              | 319                                | 51.6                               | 92.8                               | 7.3                                | 24.8                               | 2.5                                | 3.3                                | 0.3                                | 1.6                                | 0.2                                | 57.2                              | 3.46   | 58.1   | 0.9   |
|          | 7.2    | 7.6    | 20,700                             | 34,027               | 3,021                              | 8,550                              | 574                                | 94.8                               | 157.9                              | 10.1                               | 31.0                               | 3.1                                | 4.1                                | 0.3                                | 1.3                                | 0.2                                | 63.5                              | 6.72   | 88.7   | 1.3   |
|          | 7.6    | 8.0    | 5,325                              | 10,110               | 979                                | 2,916                              | 205                                | 32.9                               | 54.9                               | 4.5                                | 13.1                               | 1.4                                | 2.3                                | 0.2                                | 1.1                                | 0.1                                | 33.0                              | 1.97   | 56     | 0.6   |
|          | 8.0    | 9.0    | 4,504                              | 8,758                | 864                                | 2,659                              | 202                                | 34.5                               | 68.6                               | 6.5                                | 21.5                               | 2.1                                | 3.2                                | 0.2                                | 1.4                                | 0.2                                | 49.5                              | 1.72   | 90.7   | 1     |
|          | 9.0    | 9.7    | 4,386                              | 8,660                | 858                                | 2,624                              | 194                                | 32.2                               | 60.3                               | 5.7                                | 18.3                               | 1.8                                | 2.5                                | 0.2                                | 1.0                                | 0.2                                | 40.6                              | 1.69   | 69.4   | 0.9   |
|          | 9.7    | 10.2   | 4,750                              | 9,606                | 959                                | 2,928                              | 199                                | 31.8                               | 55.4                               | 4.2                                | 13.5                               | 1.2                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 27.9                              | 1.86   | 58.3   | 0.8   |
|          | 10.2   | 11.3   | 6,239                              | 13,144               | 1,305                              | 3,907                              | 241                                | 37.5                               | 69.9                               | 6.7                                | 22.0                               | 2.1                                | 2.7                                | 0.2                                | 0.8                                | 0.1                                | 44.5                              | 2.50   | 70.2   | 1.1   |
|          | 11.3   | 12.3   | 6,134                              | 12,468               | 1,250                              | 3,779                              | 256                                | 40.0                               | 64.9                               | 4.6                                | 14.4                               | 1.4                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 31.8                              | 2.40   | 45.8   | 2.3   |
|          | 12.3   | 13.3   | 5,723                              | 11,363               | 1,120                              | 3,383                              | 232                                | 35.7                               | 59.8                               | 4.4                                | 12.5                               | 1.2                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 2.20   | 42.3   | 0.7   |
|          | 13.3   | 14.1   | 10,156                             | 19,409               | 1,879                              | 5,575                              | 363                                | 57.6                               | 99.8                               | 8.4                                | 26.9                               | 2.4                                | 3.2                                | 0.2                                | 0.8                                | 0.2                                | 54.6                              | 3.76   | 103.5  | 0.8   |
|          | 14.1   | 15.0   | 13,018                             | 23,954               | 2,265                              | 6,648                              | 442                                | 70.1                               | 117.0                              | 9.3                                | 26.7                               | 2.3                                | 3.2                                | 0.2                                | 0.8                                | 0.1                                | 53.3                              | 4.66   | 107.5  | 0.9   |
|          | 15.0   | 15.5   | 6,192                              | 11,780               | 1,126                              | 3,324                              | 226                                | 37.9                               | 73.5                               | 6.8                                | 22.2                               | 1.9                                | 2.5                                | 0.2                                | 1.0                                | 0.1                                | 44.5                              | 2.28   | 101    | 0.5   |
|          | 15.5   | 16.0   | 11,130                             | 21,251               | 2,072                              | 6,170                              | 401                                | 60.3                               | 100.6                              | 7.0                                | 20.8                               | 1.9                                | 2.6                                | 0.2                                | 0.7                                | 0.1                                | 43.2                              | 4.13   | 79.1   | 1     |
|          | 16.0   | 16.5   | 5,020                              | 9,901                | 977                                | 2,928                              | 189                                | 28.8                               | 45.9                               | 2.7                                | 8.5                                | 0.8                                | 1.0                                | 0.1                                | 0.5                                | 0.1                                | 17.8                              | 1.91   | 23.4   | 0.7   |
|          | 16.5   | 17.0   | 6,087                              | 12,149               | 1,207                              | 3,651                              | 232                                | 33.0                               | 48.0                               | 2.8                                | 8.5                                | 0.9                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 20.3                              | 2.34   | 23.2   | 1     |
|          | 17.0   | 17.6   | 8,503                              | 16,706               | 1,649                              | 4,981                              | 330                                | 50.8                               | 85.4                               | 6.4                                | 20.2                               | 2.1                                | 2.9                                | 0.2                                | 1.3                                | 0.2                                | 45.7                              | 3.24   | 67.6   | 1.5   |
|          | 17.6   | 18.5   | 10,203                             | 19,470               | 1,885                              | 5,575                              | 355                                | 50.5                               | 80.7                               | 4.9                                | 15.2                               | 1.4                                | 1.9                                | 0.1                                | 0.7                                | 0.1                                | 29.2                              | 3.77   | 47.7   | 1.8   |
|          | 18.5   | 19.3   | 5,629                              | 11,535               | 1,166                              | 3,604                              | 244                                | 36.1                               | 55.3                               | 3.4                                | 8.8                                | 0.9                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 2.23   | 27.9   | 1.3   |
|          | 19.3   | 20.0   | 13,311                             | 24,384               | 2,302                              | 6,753                              | 431                                | 64.4                               | 100.6                              | 6.7                                | 19.1                               | 1.8                                | 2.6                                | 0.2                                | 1.0                                | 0.2                                | 38.1                              | 4.74   | 54.7   | 0.9   |
|          | 20.0   | 20.5   | 6,450                              | 12,591               | 1,232                              | 3,697                              | 241                                | 36.5                               | 58.9                               | 4.2                                | 14.2                               | 1.2                                | 1.7                                | 0.1                                | 0.8                                | 0.1                                | 29.2                              | 2.44   | 36.3   | 0.8   |
|          | 20.5   | 21.0   | 10,356                             | 20,084               | 1,915                              | 5,657                              | 354                                | 51.8                               | 82.8                               | 5.9                                | 16.3                               | 1.6                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 33.0                              | 3.86   | 54.8   | 1.3   |
|          | 21.0   | 21.5   | 8,257                              | 16,276               | 1,595                              | 4,747                              | 311                                | 46.6                               | 72.3                               | 4.6                                | 13.5                               | 1.3                                | 2.2                                | 0.2                                | 0.7                                | 0.1                                | 30.5                              | 3.14   | 37.8   | 2.9   |
|          | 21.5   | 21.7   | 11,095                             | 21,067               | 2,012                              | 5,960                              | 386                                | 60.2                               | 96.4                               | 6.0                                | 18.4                               | 1.9                                | 3.1                                | 0.3                                | 1.4                                | 0.2                                | 40.6                              | 4.07   | 47.7   | 1.1   |
| 21.7     | 22.1   | 8,257  | 14,618                             | 1,383                | 4,141                              | 307                                | 59.1                               | 108.5                              | 10.8                               | 30.3                               | 2.6                                | 3.5                                | 0.3                                | 1.6                                | 0.2                                | 61.0                               | 2.90                              | 154    | 1.5    |       |
| 22.1     | 23.0   | 7,365  | 14,004                             | 1,341                | 3,966                              | 257                                | 45.9                               | 75.3                               | 5.4                                | 14.5                               | 1.6                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 30.5                               | 2.71                              | 39.7   | 3.5    |       |
| 23.0     | 23.9   | 5,829  | 11,142                             | 1,070                | 3,208                              | 204                                | 35.8                               | 60.4                               | 4.2                                | 12.6                               | 1.3                                | 2.2                                | 0.2                                | 1.3                                | 0.1                                | 26.7                               | 2.16                              | 31.2   | 4.7    |       |
| 23.9     | 24.6   | 13,077 | 23,524                             | 2,338                | 6,509                              | 442                                | 67.4                               | 122.2                              | 9.6                                | 28.8                               | 2.6                                | 3.8                                | 0.3                                | 1.0                                | 0.2                                | 57.2                               | 4.62                              | 81.9   | 1.8    |       |
| 24.6     | 25.6   | 8,339  | 14,864                             | 1,420                | 4,292                              | 317                                | 51.0                               | 94.6                               | 8.0                                | 25.9                               | 2.5                                | 4.1                                | 0.3                                | 1.5                                | 0.2                                | 55.9                               | 2.95                              | 67.8   | 1.6    |       |
| 25.6     | 26.3   | 4,691  | 8,808                              | 859                  | 2,601                              | 170                                | 25.1                               | 49.6                               | 4.6                                | 14.8                               | 1.4                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 31.8                               | 1.73                              | 62.3   | 5.4    |       |
| 26.3     | 26.8   | 5,078  | 9,557                              | 933                  | 2,858                              | 187                                | 29.0                               | 53.5                               | 4.9                                | 15.8                               | 1.4                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 33.0                               | 1.88                              | 65.3   | 2.9    |       |
| 26.8     | 27.6   | 7,905  | 14,925                             | 1,444                | 4,269                              | 274                                | 39.7                               | 71.6                               | 5.7                                | 17.2                               | 1.6                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 35.6                               | 2.90                              | 75.9   | 1.4    |       |
| 27.6     | 28.2   | 16,361 | 29,604                             | 2,960                | 8,281                              | 484                                | 75.4                               | 147.5                              | 15.4                               | 52.0                               | 4.6                                | 6.2                                | 0.4                                | 1.5                                | 0.2                                | 102.9                              | 5.81                              | 162.5  | 1.5    |       |
| 28.2     | 28.5   | 8,432  | 16,706                             | 1,758                | 4,864                              | 288                                | 38.9                               | 67.0                               | 5.7                                | 18.5                               | 1.8                                | 2.5                                | 0.2                                | 0.8                                | 0.1                                | 39.4                               | 3.22                              | 49.7   | 0.8    |       |
| 28.5     | 29.0   | 5,078  | 9,913                              | 977                  | 2,963                              | 184                                | 26.8                               | 46.3                               | 3.5                                | 10.1                               | 1.0                                | 1.3                                | 0.1                                | 0.5                                | -0.1                               | 19.1                               | 1.92                              | 45.3   | 1      |       |
| 29.0     | 30.0   | 3,753  | 7,469                              | 741                  | 2,234                              | 144                                | 19.8                               | 31.8                               | 2.1                                | 6.1                                | 0.6                                | 1.0                                | 0.1                                | 0.3                                | -0.1                               | 11.4                               | 1.44                              | 18.6   | -0.3   |       |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 30.0   | 31.0 | 5,336                              | 10,343               | 1,020                              | 3,068                              | 187                                | 25.7                               | 42.7                               | 2.7                                | 7.4                                | 0.7                                | 0.9                                | 0.1                                | 0.5                                | 0.1                                | 14.0                              | 2.00   | 22.4   | -0.3  |
|         | 31.0   | 32.0 | 4,832                              | 9,336                | 925                                | 2,823                              | 174                                | 24.7                               | 41.0                               | 2.9                                | 8.4                                | 0.8                                | 1.0                                | 0.1                                | 0.3                                | 0.1                                | 15.2                              | 1.82   | 25.2   | 0.3   |
|         | 32.0   | 32.9 | 5,747                              | 11,289               | 1,133                              | 3,429                              | 217                                | 30.7                               | 50.4                               | 3.5                                | 9.1                                | 0.9                                | 1.3                                | 0.1                                | 0.5                                | 0.1                                | 16.5                              | 2.19   | 30.9   | 0.3   |
|         | 32.9   | 33.4 | 2,662                              | 5,602                | 579                                | 1,825                              | 130                                | 20.0                               | 36.9                               | 3.4                                | 11.4                               | 1.3                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 33.0                              | 1.09   | 42.7   | 0.3   |
|         | 33.4   | 33.6 | 4,046                              | 7,985                | 793                                | 2,449                              | 164                                | 24.2                               | 41.6                               | 2.9                                | 8.4                                | 0.7                                | 1.1                                | 0.1                                | 0.6                                | 0.1                                | 17.8                              | 1.55   | 36.8   | 0.3   |
|         | 33.6   | 34.8 | 7,893                              | 14,495               | 1,377                              | 4,164                              | 296                                | 46.9                               | 85.9                               | 7.2                                | 21.6                               | 2.2                                | 3.3                                | 0.3                                | 1.5                                | 0.3                                | 50.8                              | 2.84   | 69.1   | 0.8   |
|         | 34.8   | 35.3 | 4,586                              | 8,562                | 838                                | 2,519                              | 157                                | 22.8                               | 38.6                               | 2.9                                | 8.2                                | 0.7                                | 1.1                                | 0.1                                | 0.5                                | 0.1                                | 16.5                              | 1.68   | 30.6   | 0.4   |
|         | 35.3   | 36.0 | 6,052                              | 11,314               | 1,101                              | 3,301                              | 218                                | 32.7                               | 59.1                               | 4.6                                | 12.7                               | 1.2                                | 1.7                                | 0.1                                | 0.6                                | 0.1                                | 24.1                              | 2.21   | 49.9   | 0.4   |
|         | 36.0   | 36.4 | 1,959                              | 3,869                | 376                                | 1,166                              | 84                                 | 13.7                               | 26.6                               | 2.7                                | 8.3                                | 0.8                                | 1.3                                | 0.1                                | 0.6                                | 0.1                                | 16.5                              | 0.75   | 25.8   | 1     |
|         | 36.4   | 37.1 | 7,858                              | 14,004               | 1,347                              | 4,094                              | 300                                | 48.3                               | 89.8                               | 7.5                                | 22.4                               | 2.0                                | 2.7                                | 0.2                                | 0.9                                | 0.1                                | 41.9                              | 2.78   | 77.6   | 1     |
|         | 37.1   | 38.1 | 6,134                              | 11,829               | 1,165                              | 3,499                              | 224                                | 34.4                               | 63.2                               | 5.8                                | 18.6                               | 1.8                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 36.8                              | 2.30   | 58.2   | 0.6   |
|         | 38.1   | 38.5 | 5,970                              | 10,920               | 1,070                              | 3,254                              | 239                                | 38.4                               | 73.2                               | 6.2                                | 20.7                               | 2.1                                | 3.3                                | 0.3                                | 1.4                                | 0.2                                | 49.5                              | 2.16   | 55.2   | 1.2   |
|         | 38.5   | 39.0 | 4,457                              | 8,611                | 842                                | 2,543                              | 157                                | 22.5                               | 38.0                               | 2.8                                | 8.6                                | 0.9                                | 1.3                                | 0.1                                | 0.6                                | 0.1                                | 16.5                              | 1.67   | 22.7   | 0.4   |
|         | 39.0   | 39.3 | 3,882                              | 7,456                | 729                                | 2,199                              | 136                                | 20.3                               | 34.8                               | 3.5                                | 11.3                               | 1.0                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 24.1                              | 1.45   | 31.1   | 0.6   |
|         | 39.3   | 40.0 | 8,902                              | 17,136               | 1,818                              | 5,307                              | 392                                | 61.4                               | 112.0                              | 9.5                                | 30.8                               | 3.1                                | 5.7                                | 0.6                                | 2.5                                | 0.3                                | 80.0                              | 3.39   | 93.8   | 2.1   |
|         | 40.0   | 40.6 | 10,391                             | 19,409               | 1,981                              | 5,494                              | 375                                | 59.4                               | 112.5                              | 9.7                                | 33.4                               | 3.5                                | 6.3                                | 0.6                                | 2.6                                | 0.3                                | 92.7                              | 3.80   | 108    | 2.4   |
|         | 40.6   | 41.6 | 6,920                              | 12,468               | 1,177                              | 3,709                              | 235                                | 34.6                               | 64.7                               | 5.3                                | 16.9                               | 1.7                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 36.8                              | 2.47   | 62.6   | 0.6   |
|         | 41.6   | 42.2 | 15,188                             | 25,674               | 2,477                              | 6,893                              | 443                                | 69.4                               | 129.1                              | 9.8                                | 33.5                               | 3.3                                | 5.3                                | 0.4                                | 1.8                                | 0.3                                | 86.4                              | 5.10   | 104.5  | 1.1   |
|         | 42.2   | 42.7 | 13,018                             | 22,418               | 2,217                              | 6,252                              | 399                                | 61.0                               | 113.2                              | 9.0                                | 33.1                               | 3.4                                | 6.4                                | 0.6                                | 3.0                                | 0.3                                | 105.4                             | 4.46   | 93.4   | 1.2   |
|         | 42.7   | 43.8 | 11,904                             | 21,128               | 2,126                              | 5,995                              | 384                                | 58.8                               | 114.5                              | 10.2                               | 34.7                               | 3.7                                | 5.8                                | 0.5                                | 2.6                                | 0.4                                | 100.3                             | 4.19   | 95     | 1.1   |
|         | 43.8   | 44.2 | 8,585                              | 15,539               | 1,456                              | 4,526                              | 277                                | 43.8                               | 83.0                               | 7.1                                | 24.0                               | 2.1                                | 3.0                                | 0.3                                | 1.3                                | 0.2                                | 49.5                              | 3.06   | 79.3   | 2     |
|         | 44.2   | 45.2 | 5,817                              | 10,405               | 985                                | 3,079                              | 192                                | 28.8                               | 53.1                               | 4.6                                | 15.2                               | 1.4                                | 2.4                                | 0.2                                | 1.1                                | 0.1                                | 36.8                              | 2.06   | 49.4   | 2.7   |
|         | 45.2   | 45.7 | 6,368                              | 11,645               | 1,106                              | 3,453                              | 223                                | 34.5                               | 65.5                               | 5.2                                | 17.6                               | 1.7                                | 2.6                                | 0.2                                | 1.0                                | 0.2                                | 43.2                              | 2.30   | 46.6   | 2     |
|         | 45.7   | 46.3 | 7,717                              | 13,390               | 1,244                              | 3,791                              | 231                                | 35.1                               | 62.8                               | 5.0                                | 15.7                               | 1.7                                | 2.6                                | 0.3                                | 1.0                                | 0.2                                | 41.9                              | 2.65   | 51.2   | 1.2   |
|         | 46.3   | 47.0 | 5,231                              | 9,520                | 887                                | 2,706                              | 155                                | 23.2                               | 44.3                               | 3.8                                | 13.0                               | 1.4                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 33.0                              | 1.86   | 35.8   | 1.7   |
|         | 47.0   | 48.0 | 5,735                              | 10,110               | 961                                | 3,126                              | 240                                | 41.3                               | 85.3                               | 8.4                                | 37.0                               | 4.1                                | 8.4                                | 0.9                                | 6.0                                | 0.9                                | 123.2                             | 2.05   | 76.4   | 2.9   |
|         | 48.0   | 49.0 | 11,106                             | 18,303               | 1,691                              | 5,062                              | 325                                | 51.3                               | 94.1                               | 7.1                                | 23.4                               | 2.3                                | 3.7                                | 0.3                                | 1.7                                | 0.2                                | 58.4                              | 3.67   | 69.5   | 3     |
|         | 49.0   | 49.7 | 747                                | 1,505                | 167                                | 615                                | 66                                 | 14.4                               | 37.9                               | 5.4                                | 31.1                               | 4.5                                | 11.1                               | 1.3                                | 7.9                                | 1.0                                | 148.6                             | 0.34   | 29.6   | 6.5   |
|         | 49.7   | 51.0 | 1,402                              | 2,678                | 251                                | 853                                | 78                                 | 14.5                               | 34.7                               | 3.8                                | 17.2                               | 2.5                                | 5.7                                | 0.7                                | 4.0                                | 0.6                                | 76.2                              | 0.54   | 29.7   | 4.4   |
|         | 51.0   | 51.6 | 12,138                             | 19,532               | 1,704                              | 5,155                              | 328                                | 51.9                               | 94.9                               | 7.1                                | 21.1                               | 2.0                                | 3.5                                | 0.3                                | 1.7                                | 0.3                                | 52.1                              | 3.91   | 76.5   | 6.3   |
|         | 51.6   | 52.3 | 6,615                              | 12,026               | 1,141                              | 3,628                              | 248                                | 39.7                               | 72.8                               | 5.8                                | 21.8                               | 2.3                                | 3.8                                | 0.3                                | 1.6                                | 0.2                                | 58.4                              | 2.39   | 53.2   | 4     |
|         | 52.3   | 53.0 | 8,925                              | 15,048               | 1,353                              | 4,059                              | 239                                | 37.8                               | 70.5                               | 5.8                                | 18.6                               | 1.8                                | 3.0                                | 0.3                                | 1.4                                | 0.2                                | 45.7                              | 2.98   | 60.3   | 1.4   |
|         | 53.0   | 53.5 | 6,145                              | 10,982               | 1,004                              | 3,091                              | 190                                | 28.3                               | 50.5                               | 3.6                                | 11.6                               | 1.1                                | 1.8                                | 0.2                                | 0.7                                | 0.1                                | 26.7                              | 2.15   | 32.8   | 0.9   |
|         | 53.5   | 54.4 | 6,626                              | 11,400               | 1,048                              | 3,208                              | 198                                | 31.7                               | 60.2                               | 5.3                                | 19.6                               | 1.9                                | 3.3                                | 0.3                                | 1.6                                | 0.2                                | 55.9                              | 2.27   | 52.1   | 1.2   |
|         | 54.4   | 55.0 | 6,251                              | 11,252               | 1,055                              | 3,254                              | 200                                | 28.7                               | 49.2                               | 3.3                                | 9.1                                | 0.7                                | 1.1                                | 0.1                                | 0.5                                | 0.1                                | 17.8                              | 2.21   | 24     | 0.6   |
|         | 55.0   | 55.6 | 8,749                              | 15,724               | 1,462                              | 4,561                              | 278                                | 40.0                               | 68.6                               | 4.5                                | 12.6                               | 1.1                                | 1.6                                | 0.1                                | 0.6                                | 0.1                                | 24.1                              | 3.09   | 36.3   | 1.2   |
|         | 55.6   | 56.2 | 9,019                              | 15,724               | 1,456                              | 4,502                              | 279                                | 40.1                               | 68.7                               | 4.5                                | 13.5                               | 1.5                                | 2.1                                | 0.2                                | 0.7                                | 0.1                                | 27.9                              | 3.11   | 37.7   | 2.3   |
|         | 56.2   | 57.1 | 4,386                              | 7,788                | 729                                | 2,234                              | 130                                | 18.5                               | 32.7                               | 3.2                                | 14.8                               | 1.6                                | 2.5                                | 0.2                                | 0.8                                | 0.1                                | 36.8                              | 1.54   | 21.1   | 1.4   |
|         | 57.1   | 57.9 | 7,858                              | 14,618               | 1,395                              | 4,479                              | 284                                | 43.2                               | 72.7                               | 4.8                                | 13.2                               | 1.3                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 27.9                              | 2.88   | 33     | 1.1   |
|         | 57.9   | 58.3 | 5,336                              | 9,950                | 969                                | 3,103                              | 201                                | 30.2                               | 50.8                               | 3.3                                | 9.0                                | 0.8                                | 1.3                                | 0.1                                | 0.5                                | -0.1                               | 17.8                              | 1.97   | 23.6   | 0.9   |
|         | 58.3   | 58.8 | 8,831                              | 15,662               | 1,462                              | 4,479                              | 271                                | 39.3                               | 71.0                               | 5.0                                | 15.0                               | 1.4                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 34.3                              | 3.09   | 45     | 1.1   |
|         | 58.8   | 59.8 | 5,594                              | 10,147               | 954                                | 3,044                              | 198                                | 30.7                               | 52.2                               | 3.5                                | 10.1                               | 1.1                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.01   | 27.1   | 4     |
|         | 59.8   | 60.5 | 6,943                              | 13,758               | 1,420                              | 4,327                              | 276                                | 42.0                               | 67.9                               | 4.8                                | 13.8                               | 1.4                                | 2.2                                | 0.1                                | 0.6                                | 0.1                                | 29.2                              | 2.69   | 47     | 1.4   |
|         | 60.5   | 60.9 | 5,547                              | 10,650               | 1,022                              | 2,939                              | 191                                | 31.5                               | 51.3                               | 3.2                                | 8.5                                | 0.9                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 2.05   | 26     | 0.6   |
|         | 60.9   | 61.4 | 5,078                              | 9,397                | 892                                | 2,636                              | 168                                | 29.1                               | 48.5                               | 3.4                                | 10.3                               | 1.0                                | 1.6                                | 0.1                                | 0.5                                | -0.1                               | 19.1                              | 1.83   | 27.4   | 0.6   |
|         | 61.4   | 61.7 | 17,240                             | 29,727               | 2,767                              | 7,185                              | 436                                | 72.8                               | 122.8                              | 9.4                                | 26.7                               | 2.3                                | 3.1                                | 0.2                                | 0.9                                | 0.1                                | 45.7                              | 5.76   | 100.5  | 0.8   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 61.7   | 62.2 | 9,664                              | 18,180               | 1,764                              | 5,074                              | 315                                | 52.3                               | 90.0                               | 8.3                                | 24.2                               | 2.3                                | 3.5                                | 0.3                                | 1.1                                | 0.3                                | 54.6                              | 3.52   | 71.5   | 1.7   |
|         | 62.2   | 63.3 | 6,650                              | 13,082               | 1,269                              | 3,837                              | 256                                | 45.5                               | 79.9                               | 7.0                                | 23.3                               | 2.4                                | 3.5                                | 0.2                                | 1.3                                | 0.1                                | 53.3                              | 2.53   | 66.7   | 1.2   |
|         | 63.3   | 64.3 | 6,673                              | 12,653               | 1,205                              | 3,429                              | 222                                | 37.3                               | 65.2                               | 5.0                                | 14.0                               | 1.4                                | 1.8                                | 0.1                                | 0.8                                | 0.1                                | 30.5                              | 2.43   | 54.1   | 1.1   |
|         | 64.3   | 65.2 | 4,398                              | 8,660                | 842                                | 2,601                              | 186                                | 32.9                               | 55.9                               | 4.1                                | 12.6                               | 1.3                                | 1.9                                | 0.2                                | 0.9                                | 0.2                                | 29.2                              | 1.68   | 39.2   | 6.4   |
|         | 65.2   | 65.9 | 7,002                              | 13,082               | 1,220                              | 3,558                              | 230                                | 37.3                               | 64.0                               | 4.8                                | 15.3                               | 1.5                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 30.5                              | 2.52   | 49.3   | 3.4   |
|         | 65.9   | 66.4 | 4,152                              | 7,825                | 735                                | 2,152                              | 143                                | 24.4                               | 45.1                               | 4.1                                | 14.2                               | 1.5                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 34.3                              | 1.51   | 51.5   | 13.5  |
|         | 66.4   | 67.0 | 1,894                              | 3,906                | 347                                | 1,005                              | 77                                 | 13.8                               | 30.2                               | 4.5                                | 16.5                               | 2.0                                | 3.0                                | 0.5                                | 1.8                                | 0.3                                | 45.7                              | 0.73   | 57.4   | 26.1  |
|         | 67.0   | 67.7 | 3,800                              | 6,830                | 599                                | 1,709                              | 126                                | 21.5                               | 42.1                               | 4.8                                | 15.8                               | 1.6                                | 2.6                                | 0.2                                | 1.0                                | 0.2                                | 40.6                              | 1.32   | 59.6   | 15.6  |
|         | 67.7   | 68.7 | 2,768                              | 5,945                | 567                                | 1,750                              | 159                                | 26.6                               | 52.3                               | 5.2                                | 20.4                               | 2.8                                | 6.8                                | 0.7                                | 4.0                                | 0.6                                | 80.0                              | 1.14   | 31.7   | 7.6   |
|         | 68.7   | 69.7 | 1,876                              | 3,869                | 360                                | 1,101                              | 108                                | 22.5                               | 48.5                               | 5.1                                | 21.5                               | 2.9                                | 7.1                                | 0.8                                | 4.3                                | 0.5                                | 87.6                              | 0.75   | 28.4   | 7.3   |
|         | 69.7   | 70.7 | 4,093                              | 7,886                | 713                                | 2,088                              | 146                                | 23.2                               | 40.3                               | 3.2                                | 10.3                               | 1.3                                | 2.6                                | 0.2                                | 1.4                                | 0.2                                | 31.8                              | 1.50   | 32.3   | 17.4  |
|         | 70.7   | 71.7 | 2,041                              | 4,533                | 424                                | 1,277                              | 95                                 | 15.3                               | 27.9                               | 2.5                                | 9.1                                | 1.1                                | 2.5                                | 0.3                                | 1.5                                | 0.2                                | 31.8                              | 0.85   | 27.9   | 22.6  |
|         | 71.7   | 72.7 | 2,093                              | 4,594                | 434                                | 1,301                              | 110                                | 18.4                               | 35.5                               | 3.0                                | 11.4                               | 1.5                                | 3.4                                | 0.3                                | 1.6                                | 0.2                                | 41.9                              | 0.86   | 29.9   | 37    |
|         | 72.7   | 73.1 | 6,274                              | 12,345               | 1,189                              | 3,406                              | 202                                | 32.3                               | 50.0                               | 3.3                                | 9.8                                | 1.0                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 21.6                              | 2.35   | 27.4   | 5.2   |
|         | 73.1   | 74.7 | 4,363                              | 9,139                | 904                                | 2,694                              | 172                                | 26.5                               | 40.7                               | 3.0                                | 7.7                                | 0.8                                | 1.0                                | 0.1                                | 0.7                                | 0.1                                | 16.5                              | 1.74   | 22.9   | 5.6   |
|         | 74.7   | 75.1 | 2,047                              | 4,078                | 408                                | 1,231                              | 90                                 | 15.4                               | 27.8                               | 2.3                                | 7.2                                | 0.8                                | 1.0                                | 0.2                                | 1.0                                | 0.2                                | 19.1                              | 0.79   | 27.6   | 5.8   |
|         | 75.1   | 75.7 | 2,129                              | 4,127                | 413                                | 1,271                              | 117                                | 25.1                               | 59.0                               | 7.6                                | 30.8                               | 4.2                                | 8.0                                | 0.9                                | 5.6                                | 0.8                                | 106.7                             | 0.83   | 72.7   | 14.2  |
|         | 75.7   | 76.1 | 1,185                              | 2,629                | 266                                | 910                                | 108                                | 23.7                               | 57.3                               | 5.8                                | 27.8                               | 4.2                                | 10.1                               | 1.0                                | 5.8                                | 0.7                                | 118.1                             | 0.54   | 45.3   | 10.6  |
|         | 76.1   | 77.0 | 977                                | 2,402                | 261                                | 958                                | 129                                | 29.3                               | 70.0                               | 7.3                                | 34.6                               | 5.0                                | 11.9                               | 1.3                                | 7.0                                | 0.8                                | 142.2                             | 0.50   | 55.4   | 14.8  |
|         | 77.0   | 77.4 | 1,994                              | 4,361                | 418                                | 1,306                              | 104                                | 19.9                               | 40.6                               | 3.4                                | 13.3                               | 2.0                                | 4.8                                | 0.5                                | 3.0                                | 0.4                                | 50.8                              | 0.83   | 31.9   | 14.2  |
|         | 77.4   | 77.8 | 9,852                              | 19,716               | 2,030                              | 5,645                              | 382                                | 61.8                               | 118.1                              | 10.2                               | 40.7                               | 5.0                                | 10.0                               | 0.9                                | 5.6                                | 0.8                                | 146.0                             | 3.80   | 72.7   | 6.6   |
|         | 77.8   | 78.4 | 5,172                              | 9,803                | 922                                | 2,683                              | 169                                | 27.1                               | 49.7                               | 4.4                                | 15.3                               | 1.6                                | 2.5                                | 0.2                                | 1.0                                | 0.2                                | 36.8                              | 1.89   | 39.3   | 6.1   |
|         | 78.4   | 79.1 | 8,890                              | 15,908               | 1,426                              | 4,024                              | 249                                | 40.5                               | 75.3                               | 6.7                                | 23.2                               | 2.3                                | 3.7                                | 0.3                                | 1.3                                | 0.2                                | 55.9                              | 3.07   | 70.5   | 2.5   |
|         | 79.1   | 79.5 | 2,721                              | 5,221                | 487                                | 1,446                              | 104                                | 17.1                               | 32.3                               | 2.5                                | 9.2                                | 1.0                                | 1.6                                | 0.1                                | 0.6                                | 0.1                                | 24.1                              | 1.01   | 30.7   | 5     |
|         | 79.5   | 80.5 | 1,648                              | 3,513                | 330                                | 1,026                              | 86                                 | 16.3                               | 33.0                               | 2.7                                | 11.5                               | 1.4                                | 3.2                                | 0.3                                | 1.8                                | 0.2                                | 39.4                              | 0.67   | 22.5   | 5.7   |
|         | 80.5   | 81.3 | 409                                | 910                  | 101                                | 351                                | 45                                 | 10.4                               | 23.1                               | 2.5                                | 12.3                               | 1.8                                | 4.5                                | 0.5                                | 2.3                                | 0.3                                | 52.1                              | 0.19   | 18.4   | 3.2   |
|         | 81.3   | 82.1 | 1,372                              | 2,960                | 288                                | 960                                | 102                                | 21.5                               | 44.6                               | 4.2                                | 17.7                               | 2.3                                | 5.5                                | 0.6                                | 3.8                                | 0.5                                | 68.6                              | 0.59   | 29.9   | 7.4   |
|         | 82.1   | 83.0 | 169                                | 346                  | 37                                 | 122                                | 12                                 | 2.8                                | 7.5                                | 0.7                                | 3.8                                | 0.6                                | 1.5                                | 0.2                                | 1.0                                | 0.1                                | 20.3                              | 0.07   | 6.5    | 2.3   |
|         | 83.0   | 84.0 | 40                                 | 76                   | 8                                  | 24                                 | 2                                  | 0.6                                | 1.5                                | 0.2                                | 0.6                                | 0.1                                | 0.2                                | -0.1                               | -0.2                               | -0.1                               | 3.8                               | 0.02   | 0.8    | 0.3   |
|         | 84.0   | 85.0 | 7                                  | 11                   | 1                                  | 5                                  | 0                                  | -0.2                               | 0.4                                | -0.1                               | -0.3                               | -0.1                               | -0.2                               | -0.1                               | -0.2                               | -0.1                               | -3.8                              | 0.00   | -0.3   | -0.3  |
|         | 85.0   | 85.3 | 746                                | 1,812                | 189                                | 651                                | 79                                 | 16.9                               | 38.8                               | 3.8                                | 17.6                               | 2.5                                | 5.5                                | 0.6                                | 3.2                                | 0.4                                | 66.0                              | 0.36   | 31.6   | 4.7   |
|         | 85.3   | 86.3 | 2,005                              | 4,533                | 469                                | 1,598                              | 187                                | 40.5                               | 93.5                               | 9.4                                | 42.7                               | 6.1                                | 14.4                               | 1.5                                | 8.9                                | 1.1                                | 165.1                             | 0.92   | 51.6   | 13.8  |
|         | 86.3   | 87.3 | 1,172                              | 2,764                | 288                                | 1,025                              | 136                                | 31.0                               | 75.0                               | 7.6                                | 36.0                               | 5.0                                | 11.8                               | 1.3                                | 7.3                                | 0.9                                | 137.2                             | 0.57   | 54.3   | 14.8  |
|         | 87.3   | 88.3 | 823                                | 2,156                | 243                                | 906                                | 122                                | 27.4                               | 62.5                               | 6.3                                | 27.0                               | 3.7                                | 9.0                                | 0.9                                | 5.2                                | 0.6                                | 101.6                             | 0.45   | 64     | 16.3  |
|         | 88.3   | 88.9 | 530                                | 1,357                | 174                                | 696                                | 124                                | 29.1                               | 71.8                               | 7.6                                | 37.1                               | 5.4                                | 12.5                               | 1.3                                | 7.1                                | 0.9                                | 148.6                             | 0.32   | 46.6   | 9.1   |
|         | 88.9   | 89.5 | 6,134                              | 11,559               | 1,097                              | 3,266                              | 232                                | 37.4                               | 64.2                               | 4.5                                | 15.3                               | 1.7                                | 3.0                                | 0.3                                | 1.4                                | 0.2                                | 39.4                              | 2.25   | 52.6   | 11.9  |
|         | 89.5   | 90.5 | 2,023                              | 4,349                | 436                                | 1,411                              | 145                                | 29.9                               | 64.8                               | 6.3                                | 28.2                               | 4.1                                | 10.0                               | 1.1                                | 6.4                                | 0.8                                | 116.8                             | 0.86   | 38.1   | 10.1  |
|         | 90.5   | 91.5 | 1,847                              | 4,385                | 449                                | 1,534                              | 162                                | 33.4                               | 72.6                               | 7.0                                | 31.5                               | 4.3                                | 10.2                               | 1.1                                | 6.0                                | 0.8                                | 120.6                             | 0.87   | 45.7   | 9.6   |
|         | 91.5   | 92.1 | 2,580                              | 5,208                | 499                                | 1,627                              | 172                                | 38.1                               | 86.0                               | 8.9                                | 40.5                               | 6.2                                | 14.5                               | 1.6                                | 9.3                                | 1.2                                | 170.2                             | 1.05   | 56.3   | 10.8  |
|         | 92.1   | 93.2 | 5,242                              | 10,245               | 1,023                              | 3,208                              | 238                                | 38.3                               | 65.4                               | 4.6                                | 14.7                               | 1.5                                | 2.7                                | 0.2                                | 1.3                                | 0.1                                | 35.6                              | 2.01   | 48.2   | 7.9   |
|         | 93.2   | 94.3 | 5,805                              | 11,461               | 1,118                              | 3,359                              | 223                                | 32.4                               | 57.3                               | 4.6                                | 15.2                               | 1.5                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 34.3                              | 2.21   | 44.2   | 4.4   |
|         | 94.3   | 95.2 | 4,550                              | 8,943                | 884                                | 2,729                              | 205                                | 33.2                               | 58.3                               | 4.2                                | 13.7                               | 1.4                                | 1.9                                | 0.2                                | 0.7                                | 0.1                                | 29.2                              | 1.75   | 42.5   | 8.4   |
|         | 95.2   | 95.8 | 7,658                              | 15,355               | 1,583                              | 5,214                              | 426                                | 68.3                               | 112.8                              | 7.1                                | 21.7                               | 1.9                                | 2.7                                | 0.2                                | 1.0                                | 0.1                                | 38.1                              | 3.05   | 76.5   | 2.9   |
|         | 95.8   | 96.8 | 4,011                              | 7,886                | 756                                | 2,292                              | 152                                | 24.8                               | 43.2                               | 3.0                                | 9.9                                | 1.1                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 1.52   | 29.6   | 20.6  |
|         | 96.8   | 97.1 | 2,979                              | 5,773                | 544                                | 1,586                              | 101                                | 15.4                               | 26.1                               | 2.0                                | 7.1                                | 0.7                                | 1.3                                | 0.1                                | 0.7                                | 0.1                                | 16.5                              | 1.11   | 26.2   | 28.5  |
|         | 97.1   | 97.7 | 6,392                              | 12,137               | 1,159                              | 3,546                              | 270                                | 45.7                               | 81.7                               | 6.0                                | 19.6                               | 2.0                                | 3.0                                | 0.2                                | 1.3                                | 0.2                                | 45.7                              | 2.37   | 69     | 12    |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 97.7   | 98.4  | 15,481                             | 27,270               | 2,598                              | 6,823                              | 433                                | 68.9                               | 123.3                              | 9.2                                | 28.9                               | 2.8                                | 4.2                                | 0.3                                | 1.5                                | 0.3                                | 63.5                              | 5.29   | 99     | 10.2  |
|         | 98.4   | 98.7  | 4,762                              | 9,004                | 824                                | 2,315                              | 147                                | 27.6                               | 50.7                               | 4.2                                | 14.2                               | 1.6                                | 2.3                                | 0.2                                | 0.9                                | 0.2                                | 35.6                              | 1.72   | 45.7   | 18.1  |
|         | 98.7   | 99.2  | 3,741                              | 6,891                | 620                                | 1,744                              | 113                                | 20.4                               | 37.1                               | 3.4                                | 11.8                               | 1.3                                | 2.1                                | 0.2                                | 1.1                                | 0.1                                | 30.5                              | 1.32   | 39.5   | 30.3  |
|         | 99.2   | 99.4  | 5,407                              | 9,975                | 947                                | 2,753                              | 185                                | 34.3                               | 60.3                               | 4.9                                | 16.1                               | 1.6                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 34.3                              | 1.94   | 41.2   | 8.8   |
|         | 99.4   | 100.4 | 6,181                              | 10,945               | 1,081                              | 3,219                              | 226                                | 36.2                               | 64.0                               | 4.7                                | 16.3                               | 1.6                                | 2.7                                | 0.2                                | 0.8                                | 0.1                                | 35.6                              | 2.18   | 49.6   | 14.6  |
|         | 100.4  | 101.4 | 4,081                              | 7,530                | 747                                | 2,251                              | 172                                | 28.5                               | 53.0                               | 4.1                                | 13.3                               | 1.4                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 33.0                              | 1.49   | 44.2   | 9.3   |
|         | 101.4  | 102.4 | 7,095                              | 12,100               | 1,145                              | 3,266                              | 219                                | 35.9                               | 66.6                               | 5.6                                | 19.4                               | 2.1                                | 3.0                                | 0.2                                | 1.3                                | 0.2                                | 50.8                              | 2.40   | 56.3   | 11.5  |
|         | 102.4  | 102.9 | 5,395                              | 9,962                | 952                                | 2,776                              | 187                                | 32.5                               | 62.8                               | 6.0                                | 23.8                               | 2.6                                | 3.4                                | 0.3                                | 1.1                                | 0.2                                | 57.2                              | 1.95   | 65.7   | 14.2  |
|         | 102.9  | 103.7 | 5,465                              | 9,852                | 982                                | 2,963                              | 221                                | 38.7                               | 69.0                               | 5.3                                | 17.9                               | 2.1                                | 2.6                                | 0.3                                | 0.9                                | 0.2                                | 41.9                              | 1.97   | 71     | 15.2  |
|         | 103.7  | 104.7 | 5,981                              | 11,142               | 1,138                              | 3,511                              | 271                                | 45.9                               | 83.0                               | 6.3                                | 20.3                               | 2.2                                | 2.6                                | 0.3                                | 1.1                                | 0.2                                | 44.5                              | 2.22   | 71.8   | 13.5  |
|         | 104.7  | 105.7 | 6,662                              | 11,756               | 1,126                              | 3,278                              | 230                                | 38.7                               | 72.3                               | 6.3                                | 22.3                               | 2.6                                | 3.7                                | 0.3                                | 1.8                                | 0.3                                | 64.8                              | 2.33   | 69.7   | 14.9  |
|         | 105.7  | 106.0 | 8,139                              | 15,294               | 1,528                              | 4,537                              | 313                                | 51.3                               | 86.8                               | 6.3                                | 17.9                               | 1.8                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 39.4                              | 3.00   | 86.9   | 26    |
|         | 106.0  | 106.8 | 1,818                              | 3,968                | 434                                | 1,493                              | 176                                | 38.0                               | 86.3                               | 9.4                                | 44.8                               | 7.3                                | 15.3                               | 1.7                                | 10.4                               | 1.6                                | 196.8                             | 0.83   | 50.8   | 16.6  |
|         | 106.8  | 107.3 | 6,310                              | 11,780               | 1,173                              | 3,558                              | 269                                | 43.4                               | 84.7                               | 7.1                                | 26.4                               | 3.1                                | 4.9                                | 0.4                                | 1.9                                | 0.3                                | 74.9                              | 2.33   | 91.1   | 14.4  |
|         | 107.3  | 107.7 | 4,750                              | 9,004                | 871                                | 2,648                              | 164                                | 25.8                               | 44.7                               | 3.8                                | 13.3                               | 1.6                                | 2.9                                | 0.2                                | 1.1                                | 0.2                                | 36.8                              | 1.76   | 47.3   | 25.6  |
|         | 107.7  | 108.7 | 3,835                              | 7,383                | 721                                | 2,269                              | 159                                | 25.7                               | 47.7                               | 4.2                                | 17.2                               | 2.2                                | 4.5                                | 0.4                                | 2.5                                | 0.3                                | 57.2                              | 1.45   | 48.4   | 21.6  |
|         | 108.7  | 109.7 | 6,403                              | 12,186               | 1,179                              | 3,686                              | 237                                | 35.2                               | 60.7                               | 4.6                                | 15.6                               | 1.7                                | 2.9                                | 0.2                                | 1.3                                | 0.2                                | 40.6                              | 2.39   | 52.8   | 14.5  |
|         | 109.7  | 110.7 | 5,325                              | 10,736               | 1,089                              | 3,511                              | 248                                | 40.5                               | 72.8                               | 5.8                                | 18.6                               | 1.9                                | 2.9                                | 0.2                                | 1.0                                | 0.2                                | 41.9                              | 2.11   | 76.7   | 12.4  |
|         | 110.7  | 111.1 | 2,111                              | 4,459                | 445                                | 1,470                              | 116                                | 20.2                               | 39.3                               | 3.6                                | 13.0                               | 1.6                                | 2.9                                | 0.3                                | 1.4                                | 0.2                                | 39.4                              | 0.87   | 53.1   | 8     |
|         | 111.1  | 112.0 | 7,307                              | 15,109               | 1,559                              | 4,607                              | 292                                | 44.7                               | 72.3                               | 5.0                                | 16.2                               | 1.6                                | 2.6                                | 0.2                                | 1.0                                | 0.1                                | 36.8                              | 2.91   | 58.3   | 17.5  |
|         | 112.0  | 112.6 | 4,386                              | 9,225                | 929                                | 2,951                              | 185                                | 29.2                               | 47.0                               | 3.2                                | 10.2                               | 1.0                                | 1.5                                | 0.2                                | 0.6                                | 0.1                                | 22.9                              | 1.78   | 37.5   | 14.6  |
|         | 112.6  | 113.2 | 2,475                              | 5,344                | 544                                | 1,785                              | 125                                | 20.8                               | 33.3                               | 2.1                                | 6.5                                | 0.8                                | 1.3                                | 0.2                                | 0.7                                | 0.1                                | 19.1                              | 1.04   | 20.9   | 8.1   |
|         | 113.2  | 113.6 | 2,522                              | 5,565                | 584                                | 1,930                              | 143                                | 23.3                               | 38.4                               | 2.9                                | 9.5                                | 1.1                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 27.9                              | 1.08   | 29.5   | 16.5  |
|         | 113.6  | 114.0 | 3,296                              | 7,088                | 736                                | 2,403                              | 177                                | 29.9                               | 49.3                               | 3.5                                | 10.6                               | 1.2                                | 2.4                                | 0.2                                | 1.4                                | 0.1                                | 27.9                              | 1.38   | 35     | 20.3  |
|         | 114.0  | 115.0 | 3,096                              | 6,842                | 737                                | 2,496                              | 205                                | 37.3                               | 67.7                               | 5.1                                | 17.9                               | 2.2                                | 4.5                                | 0.4                                | 2.2                                | 0.3                                | 55.9                              | 1.36   | 39.5   | 18.6  |
|         | 115.0  | 115.6 | 2,275                              | 5,049                | 542                                | 1,866                              | 172                                | 32.1                               | 62.0                               | 5.4                                | 19.2                               | 2.2                                | 3.9                                | 0.4                                | 2.2                                | 0.3                                | 58.4                              | 1.01   | 42.7   | 19.2  |
|         | 115.6  | 115.9 | 5,747                              | 12,026               | 1,220                              | 3,791                              | 250                                | 40.3                               | 62.8                               | 4.0                                | 12.2                               | 1.3                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 29.2                              | 2.32   | 46.6   | 18.2  |
|         | 115.9  | 116.4 | 2,082                              | 4,705                | 499                                | 1,703                              | 156                                | 29.6                               | 56.5                               | 4.4                                | 17.8                               | 2.5                                | 5.4                                | 0.6                                | 3.4                                | 0.4                                | 69.8                              | 0.93   | 40.4   | 23.1  |
|         | 116.4  | 117.0 | 2,176                              | 4,950                | 538                                | 1,855                              | 158                                | 30.2                               | 59.4                               | 5.1                                | 20.4                               | 2.9                                | 6.5                                | 0.7                                | 3.4                                | 0.4                                | 81.3                              | 0.99   | 36.3   | 19    |
|         | 117.0  | 117.2 | 4,808                              | 11,658               | 1,299                              | 4,409                              | 328                                | 52.2                               | 82.5                               | 5.0                                | 13.7                               | 1.3                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 30.5                              | 2.27   | 54.6   | 10.8  |
|         | 117.2  | 118.2 | 3,038                              | 6,326                | 638                                | 2,030                              | 140                                | 23.5                               | 39.8                               | 2.9                                | 9.6                                | 1.1                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 25.4                              | 1.23   | 36     | 17.9  |
|         | 118.2  | 118.5 | 2,838                              | 5,945                | 610                                | 2,000                              | 145                                | 22.9                               | 35.7                               | 2.3                                | 7.2                                | 0.9                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.16   | 24.4   | 11.7  |
|         | 118.5  | 118.9 | 2,357                              | 5,049                | 520                                | 1,703                              | 132                                | 23.5                               | 42.1                               | 3.7                                | 12.6                               | 1.5                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 35.6                              | 0.99   | 46.3   | 11.5  |
|         | 118.9  | 119.9 | 5,571                              | 11,891               | 1,208                              | 3,861                              | 268                                | 46.2                               | 86.6                               | 7.3                                | 26.3                               | 3.1                                | 5.2                                | 0.5                                | 2.6                                | 0.3                                | 76.2                              | 2.31   | 71.2   | 16.8  |
|         | 119.9  | 120.4 | 3,202                              | 7,309                | 796                                | 2,706                              | 217                                | 39.0                               | 73.3                               | 6.0                                | 20.5                               | 2.0                                | 3.3                                | 0.3                                | 1.6                                | 0.3                                | 54.6                              | 1.44   | 83.2   | 6.3   |
|         | 120.4  | 121.3 | 4,093                              | 8,230                | 893                                | 2,974                              | 225                                | 36.4                               | 62.0                               | 4.5                                | 15.4                               | 1.7                                | 3.1                                | 0.3                                | 1.8                                | 0.3                                | 44.5                              | 1.66   | 57.6   | 17.7  |
|         | 121.3  | 121.5 | 1,712                              | 4,029                | 455                                | 1,610                              | 130                                | 20.2                               | 32.7                               | 2.3                                | 6.2                                | 0.7                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 15.2                              | 0.80   | 20.2   | 20.9  |
|         | 121.5  | 122.5 | 1,472                              | 3,206                | 338                                | 1,117                              | 85                                 | 13.6                               | 23.1                               | 1.9                                | 6.5                                | 0.7                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 0.63   | 18.4   | 25.1  |
|         | 122.5  | 123.5 | 1,701                              | 3,673                | 381                                | 1,254                              | 87                                 | 13.6                               | 22.4                               | 1.7                                | 5.4                                | 0.6                                | 1.1                                | 0.1                                | 0.7                                | 0.1                                | 14.0                              | 0.72   | 16.8   | 28.8  |
|         | 123.5  | 124.5 | 1,777                              | 3,599                | 362                                | 1,157                              | 80                                 | 11.9                               | 21.9                               | 1.7                                | 6.2                                | 0.8                                | 1.7                                | 0.2                                | 0.9                                | 0.2                                | 20.3                              | 0.70   | 19     | 23.7  |
|         | 124.5  | 125.5 | 4,656                              | 8,427                | 848                                | 2,636                              | 188                                | 31.3                               | 57.4                               | 4.7                                | 14.4                               | 1.6                                | 2.3                                | 0.2                                | 1.1                                | 0.1                                | 31.8                              | 1.69   | 61.8   | 18.2  |
|         | 125.5  | 126.5 | 2,346                              | 4,594                | 459                                | 1,441                              | 105                                | 16.7                               | 29.6                               | 2.3                                | 8.0                                | 0.9                                | 1.5                                | 0.2                                | 1.0                                | 0.1                                | 20.3                              | 0.90   | 25.8   | 23.8  |
|         | 126.5  | 126.7 | 2,568                              | 4,852                | 459                                | 1,365                              | 86                                 | 13.8                               | 24.2                               | 2.0                                | 7.1                                | 0.8                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 0.94   | 25.1   | 25.3  |
|         | 126.7  | 127.0 | 2,639                              | 5,270                | 540                                | 1,755                              | 131                                | 22.0                               | 42.0                               | 3.6                                | 10.8                               | 1.2                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 1.04   | 54.2   | 24    |
|         | 127.0  | 127.3 | 1,742                              | 4,238                | 425                                | 1,341                              | 94                                 | 15.8                               | 24.3                               | 1.7                                | 5.6                                | 0.6                                | 1.6                                | 0.1                                | 0.8                                | 0.1                                | 14.0                              | 0.79   | 22.8   | 29.1  |
|         | 127.3  | 128.1 | 3,260                              | 7,407                | 791                                | 2,601                              | 188                                | 31.2                               | 49.9                               | 3.9                                | 10.7                               | 0.9                                | 1.7                                | 0.1                                | 0.8                                | 0.1                                | 21.6                              | 1.44   | 36.4   | 17.8  |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 128.1  | 129.0 | 2,193                              | 5,061                | 511                                | 1,580                              | 115                                | 21.3                               | 37.9                               | 3.0                                | 9.6                                | 1.2                                | 2.3                                | 0.2                                | 1.4                                | 0.3                                | 27.9                              | 0.96   | 20.2   | 24.7  |
|         | 129.0  | 129.9 | 1,964                              | 4,852                | 503                                | 1,580                              | 120                                | 20.4                               | 36.4                               | 2.9                                | 8.6                                | 1.0                                | 1.7                                | 0.2                                | 1.0                                | 0.2                                | 24.1                              | 0.91   | 38.4   | 29.9  |
|         | 129.9  | 130.4 | 4,691                              | 9,127                | 841                                | 2,315                              | 125                                | 20.2                               | 35.3                               | 2.9                                | 9.5                                | 1.1                                | 2.3                                | 0.3                                | 1.1                                | 0.2                                | 25.4                              | 1.72   | 31.2   | 25.3  |
|         | 130.4  | 131.1 | 4,117                              | 7,923                | 709                                | 2,006                              | 108                                | 18.3                               | 33.4                               | 2.9                                | 10.0                               | 1.3                                | 2.3                                | 0.2                                | 1.3                                | 0.2                                | 30.5                              | 1.50   | 36.9   | 25.7  |
|         | 131.1  | 131.8 | 2,756                              | 5,614                | 533                                | 1,528                              | 88                                 | 15.5                               | 25.7                               | 2.3                                | 7.1                                | 0.8                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 21.6                              | 1.06   | 25.9   | 28.6  |
|         | 131.8  | 132.4 | 4,081                              | 7,935                | 736                                | 2,094                              | 127                                | 22.1                               | 40.6                               | 3.4                                | 11.4                               | 1.3                                | 2.4                                | 0.3                                | 1.3                                | 0.2                                | 31.8                              | 1.51   | 42.8   | 25.8  |
|         | 132.4  | 132.9 | 1,349                              | 2,936                | 280                                | 795                                | 47                                 | 8.1                                | 15.2                               | 1.2                                | 4.4                                | 0.6                                | 1.3                                | 0.1                                | 0.7                                | 0.1                                | 14.0                              | 0.55   | 12.2   | 29.6  |
|         | 132.9  | 133.5 | 1,753                              | 3,489                | 314                                | 888                                | 56                                 | 9.6                                | 18.1                               | 1.9                                | 6.5                                | 0.8                                | 1.6                                | 0.2                                | 1.0                                | 0.1                                | 20.3                              | 0.66   | 18     | 36.1  |
|         | 133.5  | 134.0 | 2,316                              | 4,668                | 429                                | 1,242                              | 77                                 | 13.7                               | 23.7                               | 2.2                                | 7.8                                | 1.0                                | 1.9                                | 0.2                                | 1.1                                | 0.2                                | 26.7                              | 0.88   | 23.9   | 30.2  |
|         | 134.0  | 135.0 | 3,073                              | 6,117                | 573                                | 1,668                              | 103                                | 17.4                               | 28.9                               | 2.6                                | 7.9                                | 1.0                                | 2.1                                | 0.3                                | 1.4                                | 0.2                                | 25.4                              | 1.16   | 30.7   | 28.9  |
|         | 135.0  | 136.0 | 3,120                              | 6,461                | 616                                | 1,866                              | 115                                | 17.7                               | 28.7                               | 2.4                                | 7.2                                | 0.8                                | 1.5                                | 0.1                                | 0.9                                | 0.1                                | 17.8                              | 1.23   | 25.9   | 36.7  |
|         | 136.0  | 137.0 | 2,381                              | 5,307                | 517                                | 1,592                              | 104                                | 17.1                               | 28.4                               | 2.1                                | 6.7                                | 0.7                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 16.5                              | 1.00   | 28.5   | 32.3  |
|         | 137.0  | 138.0 | 3,284                              | 6,597                | 646                                | 1,948                              | 130                                | 25.4                               | 51.2                               | 5.4                                | 18.3                               | 2.3                                | 4.0                                | 0.4                                | 2.4                                | 0.4                                | 55.9                              | 1.28   | 55.9   | 22.3  |
|         | 138.0  | 139.0 | 2,047                              | 4,459                | 430                                | 1,306                              | 88                                 | 15.3                               | 24.4                               | 1.9                                | 6.0                                | 0.7                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 0.84   | 24.7   | 30.4  |
|         | 139.0  | 140.0 | 2,346                              | 4,754                | 439                                | 1,271                              | 83                                 | 13.9                               | 24.3                               | 2.0                                | 6.9                                | 0.9                                | 1.6                                | 0.1                                | 0.8                                | 0.1                                | 20.3                              | 0.90   | 28.8   | 28.3  |
|         | 140.0  | 141.0 | 24,042                             | 39,432               | 3,504                              | 8,456                              | 458                                | 76.7                               | 128.5                              | 10.5                               | 35.0                               | 3.8                                | 6.5                                | 0.5                                | 2.6                                | 0.3                                | 96.5                              | 7.63   | 107.5  | 3     |
|         | 141.0  | 142.0 | 16,302                             | 27,025               | 2,368                              | 6,042                              | 326                                | 56.3                               | 103.3                              | 10.6                               | 40.2                               | 5.0                                | 8.8                                | 0.9                                | 4.4                                | 0.5                                | 132.1                             | 5.24   | 95.5   | 2.7   |
|         | 142.0  | 142.8 | 15,070                             | 28,253               | 2,634                              | 7,057                              | 415                                | 64.8                               | 113.4                              | 9.5                                | 31.0                               | 3.6                                | 5.8                                | 0.6                                | 3.2                                | 0.4                                | 90.2                              | 5.38   | 98.4   | 3     |
|         | 142.8  | 143.7 | 2,862                              | 5,687                | 526                                | 1,522                              | 100                                | 16.4                               | 27.0                               | 2.4                                | 9.6                                | 1.0                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 26.7                              | 1.08   | 27.3   | 24.3  |
|         | 143.7  | 144.1 | 5,031                              | 9,803                | 944                                | 2,753                              | 176                                | 29.6                               | 50.3                               | 4.2                                | 13.4                               | 1.6                                | 3.2                                | 0.3                                | 1.4                                | 0.2                                | 36.8                              | 1.88   | 47.1   | 25.1  |
|         | 144.1  | 144.5 | 11,845                             | 22,725               | 2,102                              | 5,879                              | 357                                | 55.8                               | 92.0                               | 6.9                                | 18.6                               | 1.7                                | 3.2                                | 0.2                                | 1.0                                | 0.2                                | 39.4                              | 4.31   | 80     | 9.2   |
|         | 144.5  | 145.8 | 6,615                              | 12,653               | 1,214                              | 3,511                              | 228                                | 39.0                               | 65.8                               | 5.7                                | 17.5                               | 1.8                                | 3.0                                | 0.2                                | 1.0                                | 0.2                                | 41.9                              | 2.44   | 61.9   | 3.9   |
|         | 145.8  | 146.5 | 2,475                              | 5,110                | 486                                | 1,470                              | 96                                 | 15.3                               | 26.4                               | 2.4                                | 9.2                                | 1.1                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 26.7                              | 0.97   | 25.3   | 22.3  |
|         | 146.5  | 147.2 | 13,253                             | 30,464               | 3,371                              | 9,949                              | 688                                | 109.1                              | 171.7                              | 12.1                               | 36.6                               | 3.7                                | 4.9                                | 0.4                                | 2.7                                | 0.2                                | 77.5                              | 5.81   | 167    | 6.6   |
|         | 147.2  | 147.5 | 5,794                              | 12,468               | 1,287                              | 3,931                              | 262                                | 42.4                               | 69.9                               | 5.4                                | 17.9                               | 2.1                                | 3.7                                | 0.3                                | 1.9                                | 0.3                                | 52.1                              | 2.39   | 52.3   | 4.1   |
|         | 147.5  | 148.5 | 5,559                              | 11,031               | 1,091                              | 3,289                              | 221                                | 35.2                               | 57.9                               | 4.4                                | 13.3                               | 1.3                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 29.2                              | 2.13   | 45     | 11.6  |
|         | 148.5  | 149.5 | 2,439                              | 5,516                | 569                                | 1,755                              | 117                                | 19.5                               | 28.5                               | 2.3                                | 7.5                                | 0.8                                | 1.5                                | 0.1                                | 0.8                                | 0.2                                | 17.8                              | 1.05   | 28     | 28.7  |
|         | 149.5  | 149.8 | 3,425                              | 7,014                | 697                                | 2,123                              | 146                                | 24.6                               | 44.5                               | 4.2                                | 12.3                               | 1.2                                | 1.8                                | 0.1                                | 0.9                                | 0.1                                | 27.9                              | 1.35   | 86.8   | 19    |
|         | 149.8  | 150.3 | 6,228                              | 12,001               | 1,128                              | 3,348                              | 203                                | 33.5                               | 62.4                               | 5.1                                | 16.1                               | 1.6                                | 2.4                                | 0.2                                | 0.8                                | 0.1                                | 35.6                              | 2.31   | 63.8   | 1.4   |
|         | 150.3  | 151.2 | 2,803                              | 5,626                | 578                                | 1,855                              | 128                                | 21.2                               | 34.9                               | 2.6                                | 8.2                                | 1.0                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 1.11   | 33.2   | 25.7  |
|         | 151.2  | 151.6 | 1,074                              | 2,291                | 216                                | 672                                | 43                                 | 7.8                                | 14.1                               | 1.3                                | 5.1                                | 0.7                                | 1.6                                | 0.1                                | 0.8                                | 0.2                                | 17.8                              | 0.43   | 19.6   | 38.6  |
|         | 151.6  | 152.3 | 14,015                             | 29,973               | 3,178                              | 9,763                              | 613                                | 105.4                              | 170.6                              | 11.7                               | 34.7                               | 3.2                                | 5.0                                | 0.4                                | 1.7                                | 0.3                                | 76.2                              | 5.80   | 141.5  | 17.8  |
|         | 152.3  | 153.3 | 7,717                              | 15,908               | 1,698                              | 4,852                              | 318                                | 53.6                               | 86.9                               | 6.0                                | 17.5                               | 1.9                                | 3.1                                | 0.3                                | 1.4                                | 0.2                                | 44.5                              | 3.07   | 77.2   | 20.6  |
|         | 153.3  | 154.3 | 3,542                              | 6,977                | 679                                | 2,018                              | 133                                | 24.1                               | 40.7                               | 3.0                                | 10.1                               | 1.1                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 1.35   | 41.5   | 36.3  |
|         | 154.3  | 155.0 | 1,835                              | 3,513                | 324                                | 935                                | 57                                 | 10.4                               | 18.0                               | 1.6                                | 6.8                                | 0.8                                | 1.5                                | 0.2                                | 1.0                                | 0.2                                | 21.6                              | 0.67   | 23.8   | 33    |
|         | 155.0  | 155.8 | 1,402                              | 2,960                | 289                                | 898                                | 59                                 | 10.0                               | 16.8                               | 1.4                                | 4.7                                | 0.6                                | 1.1                                | 0.1                                | 0.8                                | 0.2                                | 15.2                              | 0.57   | 20.3   | 34.7  |
|         | 155.8  | 156.6 | 2,932                              | 6,240                | 652                                | 2,035                              | 139                                | 24.3                               | 47.3                               | 5.1                                | 18.4                               | 2.0                                | 3.2                                | 0.3                                | 1.7                                | 0.2                                | 50.8                              | 1.22   | 54.4   | 14.8  |
|         | 156.6  | 157.5 | 2,733                              | 5,823                | 613                                | 1,977                              | 140                                | 23.3                               | 39.9                               | 3.2                                | 9.8                                | 1.1                                | 1.9                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 1.14   | 41.9   | 26    |
|         | 157.5  | 157.8 | 2,791                              | 6,081                | 638                                | 2,070                              | 142                                | 23.2                               | 35.5                               | 2.2                                | 6.0                                | 0.6                                | 1.0                                | 0.1                                | 0.6                                | 0.1                                | 12.7                              | 1.18   | 28.9   | 24.4  |
|         | 157.8  | 158.5 | 3,988                              | 8,451                | 881                                | 2,753                              | 185                                | 30.2                               | 46.9                               | 2.9                                | 8.2                                | 0.9                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 17.8                              | 1.64   | 32.1   | 26.8  |
|         | 158.5  | 159.0 | 6,908                              | 14,495               | 1,474                              | 4,421                              | 275                                | 42.8                               | 68.0                               | 4.4                                | 14.1                               | 1.4                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 30.5                              | 2.77   | 51.9   | 21.3  |
|         | 159.0  | 160.0 | 6,978                              | 14,557               | 1,504                              | 4,491                              | 288                                | 45.0                               | 74.5                               | 5.6                                | 17.6                               | 1.8                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 40.6                              | 2.80   | 59.4   | 8.3   |
|         | 160.0  | 161.0 | 3,167                              | 6,670                | 692                                | 2,239                              | 158                                | 25.8                               | 42.2                               | 3.2                                | 10.8                               | 1.1                                | 1.9                                | 0.2                                | 0.7                                | 0.1                                | 27.9                              | 1.30   | 34.7   | 21.4  |
|         | 161.0  | 162.2 | 9,500                              | 20,699               | 2,241                              | 6,858                              | 456                                | 69.5                               | 108.9                              | 6.5                                | 18.3                               | 1.8                                | 2.5                                | 0.2                                | 1.1                                | 0.1                                | 39.4                              | 4.00   | 73     | 19    |
|         | 162.2  | 163.0 | 7,916                              | 16,153               | 1,637                              | 4,817                              | 296                                | 46.0                               | 75.8                               | 5.3                                | 16.9                               | 1.6                                | 2.4                                | 0.2                                | 0.8                                | 0.1                                | 38.1                              | 3.10   | 54.4   | 5.4   |
|         | 163.0  | 163.4 | 8,538                              | 16,891               | 1,710                              | 4,981                              | 304                                | 46.1                               | 73.1                               | 5.0                                | 14.4                               | 1.5                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 34.3                              | 3.26   | 45.4   | 11.7  |



| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 202.9  | 204.0 | 5,454                              | 11,080               | 1,164                              | 3,779                              | 268                                | 42.4                               | 67.8                               | 4.6                                | 12.9                               | 1.2                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 27.9                              | 2.19   | 41.2   | 7.3   |
|         | 204.0  | 204.9 | 5,559                              | 11,424               | 1,172                              | 3,663                              | 241                                | 37.6                               | 59.5                               | 4.0                                | 10.9                               | 1.1                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 2.22   | 34.6   | 8.4   |
|         | 204.9  | 205.3 | 5,465                              | 10,540               | 1,057                              | 3,324                              | 230                                | 35.9                               | 60.4                               | 4.2                                | 11.7                               | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 2.08   | 34.6   | 16.6  |
|         | 205.3  | 206.0 | 2,850                              | 5,614                | 569                                | 1,825                              | 132                                | 20.8                               | 33.4                               | 2.3                                | 6.9                                | 0.7                                | 1.4                                | 0.1                                | 0.9                                | 0.1                                | 15.2                              | 1.11   | 21.4   | 25.8  |
|         | 206.0  | 206.9 | 3,706                              | 7,223                | 736                                | 2,356                              | 166                                | 26.8                               | 42.9                               | 2.9                                | 8.2                                | 0.9                                | 1.8                                | 0.1                                | 0.9                                | 0.1                                | 17.8                              | 1.43   | 26     | 18.8  |
|         | 206.9  | 207.9 | 5,078                              | 10,011               | 1,032                              | 3,278                              | 224                                | 34.3                               | 56.0                               | 3.6                                | 9.5                                | 1.0                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.97   | 28.9   | 8.2   |
|         | 207.9  | 208.9 | 4,937                              | 10,061               | 1,044                              | 3,336                              | 226                                | 34.2                               | 54.6                               | 3.4                                | 9.0                                | 0.8                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.97   | 26.6   | 11    |
|         | 208.9  | 209.9 | 3,941                              | 7,444                | 737                                | 2,304                              | 153                                | 23.3                               | 38.5                               | 2.7                                | 8.5                                | 0.8                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 1.47   | 24.5   | 17.7  |
|         | 209.9  | 210.5 | 3,354                              | 6,633                | 667                                | 2,123                              | 144                                | 21.9                               | 33.8                               | 2.1                                | 6.5                                | 0.7                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 15.2                              | 1.30   | 18.3   | 10.7  |
|         | 210.5  | 211.1 | 4,937                              | 9,385                | 941                                | 2,939                              | 193                                | 30.2                               | 48.0                               | 3.0                                | 8.2                                | 0.8                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 1.85   | 24.1   | 18.2  |
|         | 211.1  | 211.6 | 9,042                              | 17,873               | 1,921                              | 5,657                              | 373                                | 55.9                               | 86.9                               | 5.3                                | 14.6                               | 1.5                                | 2.4                                | 0.2                                | 1.1                                | 0.1                                | 27.9                              | 3.51   | 40.3   | 15.4  |
|         | 211.6  | 212.6 | 5,102                              | 9,864                | 994                                | 3,079                              | 204                                | 29.9                               | 48.9                               | 3.3                                | 9.0                                | 0.9                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 20.3                              | 1.94   | 30.6   | 11.5  |
|         | 212.6  | 213.6 | 6,357                              | 12,161               | 1,214                              | 3,814                              | 267                                | 41.2                               | 69.4                               | 4.7                                | 14.0                               | 1.4                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 31.8                              | 2.40   | 46.9   | 9.5   |
|         | 213.6  | 214.6 | 3,530                              | 7,174                | 745                                | 2,391                              | 169                                | 26.8                               | 45.1                               | 3.0                                | 8.7                                | 0.8                                | 1.4                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.41   | 28.2   | 11.2  |
|         | 214.6  | 215.6 | 4,937                              | 10,257               | 1,067                              | 3,418                              | 234                                | 37.6                               | 62.4                               | 4.3                                | 12.1                               | 1.1                                | 1.6                                | 0.1                                | 0.6                                | 0.1                                | 21.6                              | 2.01   | 49.5   | 2.5   |
|         | 215.6  | 216.6 | 4,937                              | 10,208               | 1,077                              | 3,546                              | 262                                | 41.6                               | 68.5                               | 4.4                                | 10.4                               | 1.1                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 2.02   | 42     | 5     |
|         | 216.6  | 217.6 | 3,929                              | 8,083                | 808                                | 2,554                              | 168                                | 26.8                               | 41.7                               | 3.0                                | 8.6                                | 1.0                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 1.56   | 31.2   | 16.3  |
|         | 217.6  | 218.6 | 5,454                              | 10,368               | 992                                | 3,044                              | 198                                | 31.8                               | 50.4                               | 4.0                                | 11.6                               | 1.3                                | 2.3                                | 0.2                                | 1.1                                | 0.1                                | 29.2                              | 2.02   | 33.6   | 10    |
|         | 218.6  | 219.6 | 4,421                              | 8,844                | 884                                | 2,799                              | 180                                | 27.8                               | 41.0                               | 2.7                                | 7.9                                | 0.9                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 19.1                              | 1.72   | 27.3   | 11.3  |
|         | 219.6  | 220.5 | 5,653                              | 11,645               | 1,189                              | 3,686                              | 239                                | 36.6                               | 55.4                               | 3.9                                | 11.1                               | 1.2                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.25   | 37.7   | 6.7   |
|         | 220.5  | 221.2 | 2,967                              | 6,486                | 661                                | 2,129                              | 141                                | 22.1                               | 34.1                               | 2.2                                | 7.9                                | 0.9                                | 1.5                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.25   | 19.7   | 1.5   |
|         | 221.2  | 221.8 | 4,281                              | 8,783                | 875                                | 2,729                              | 180                                | 28.5                               | 43.6                               | 2.9                                | 8.8                                | 1.0                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 21.6                              | 1.70   | 30.2   | 22.7  |
|         | 221.8  | 222.3 | 1,923                              | 3,992                | 395                                | 1,254                              | 84                                 | 13.3                               | 20.8                               | 1.4                                | 4.6                                | 0.6                                | 1.1                                | 0.1                                | 0.8                                | 0.1                                | 14.0                              | 0.77   | 17.2   | 33.6  |
|         | 222.3  | 223.3 | 2,991                              | 6,277                | 629                                | 2,030                              | 136                                | 21.8                               | 34.0                               | 2.4                                | 7.4                                | 0.9                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 1.22   | 25.2   | 21.6  |
|         | 223.3  | 224.3 | 5,149                              | 10,945               | 1,116                              | 3,534                              | 247                                | 37.9                               | 57.1                               | 3.3                                | 9.8                                | 1.0                                | 1.7                                | 0.2                                | 0.7                                | 0.2                                | 21.6                              | 2.11   | 28.6   | 4.4   |
|         | 224.3  | 225.3 | 5,747                              | 12,026               | 1,238                              | 3,896                              | 277                                | 43.9                               | 67.1                               | 4.0                                | 10.8                               | 1.2                                | 1.9                                | 0.2                                | 0.7                                | 0.2                                | 22.9                              | 2.33   | 39.8   | 5.8   |
|         | 225.3  | 226.0 | 6,298                              | 13,267               | 1,347                              | 4,199                              | 278                                | 43.3                               | 65.9                               | 4.2                                | 11.4                               | 1.2                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.55   | 37.9   | 3.9   |
|         | 226.0  | 227.0 | 5,583                              | 11,387               | 1,156                              | 3,604                              | 246                                | 37.1                               | 59.5                               | 3.7                                | 11.6                               | 1.2                                | 1.9                                | 0.2                                | 0.7                                | 0.2                                | 26.7                              | 2.21   | 33.4   | 4.1   |
|         | 227.0  | 227.7 | 7,353                              | 15,171               | 1,625                              | 4,829                              | 333                                | 51.1                               | 79.3                               | 4.3                                | 12.3                               | 1.2                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 2.95   | 48.9   | 10.2  |
|         | 227.7  | 228.0 | 4,398                              | 9,238                | 961                                | 3,056                              | 215                                | 32.8                               | 48.1                               | 2.5                                | 7.6                                | 0.7                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 16.5                              | 1.80   | 25.8   | 16.6  |
|         | 228.0  | 228.5 | 5,536                              | 10,626               | 1,044                              | 3,219                              | 218                                | 34.4                               | 50.6                               | 3.0                                | 8.4                                | 0.9                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 19.1                              | 2.08   | 25.5   | 5.7   |
|         | 228.5  | 228.9 | 6,849                              | 13,021               | 1,257                              | 3,802                              | 259                                | 41.2                               | 67.3                               | 4.7                                | 14.4                               | 1.5                                | 2.5                                | 0.3                                | 1.1                                | 0.2                                | 33.0                              | 2.54   | 42.6   | 7.1   |
|         | 228.9  | 229.4 | 8,690                              | 17,136               | 1,758                              | 5,051                              | 334                                | 50.8                               | 80.9                               | 4.8                                | 13.5                               | 1.4                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 27.9                              | 3.32   | 48.5   | 6.2   |
|         | 229.4  | 230.1 | 6,849                              | 13,205               | 1,275                              | 3,872                              | 257                                | 39.1                               | 60.9                               | 3.5                                | 9.4                                | 1.0                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 2.56   | 29.9   | 9.3   |
|         | 230.1  | 231.1 | 9,898                              | 20,514               | 2,145                              | 6,334                              | 436                                | 67.4                               | 104.2                              | 5.9                                | 16.8                               | 1.7                                | 2.9                                | 0.3                                | 1.4                                | 0.2                                | 38.1                              | 3.96   | 57     | 2.4   |
|         | 231.1  | 232.1 | 8,362                              | 17,750               | 1,915                              | 5,680                              | 395                                | 65.0                               | 100.7                              | 6.0                                | 16.6                               | 1.7                                | 2.9                                | 0.2                                | 1.3                                | 0.2                                | 38.1                              | 3.43   | 55.3   | 3     |
|         | 232.1  | 233.1 | 7,846                              | 15,724               | 1,655                              | 4,817                              | 324                                | 49.9                               | 77.7                               | 5.1                                | 16.9                               | 1.8                                | 2.7                                | 0.3                                | 1.4                                | 0.2                                | 45.7                              | 3.06   | 50.7   | 5     |
|         | 233.1  | 234.1 | 11,189                             | 22,295               | 2,290                              | 6,648                              | 429                                | 65.5                               | 99.7                               | 6.5                                | 18.3                               | 1.9                                | 3.1                                | 0.3                                | 1.5                                | 0.2                                | 45.7                              | 4.31   | 60.8   | 2.5   |
|         | 234.1  | 234.8 | 16,595                             | 32,798               | 3,347                              | 10,031                             | 626                                | 97.3                               | 150.4                              | 8.9                                | 25.0                               | 2.4                                | 3.7                                | 0.3                                | 1.1                                | 0.2                                | 52.1                              | 6.37   | 75.5   | 9.1   |
|         | 234.8  | 235.0 | 6,040                              | 12,100               | 1,178                              | 3,499                              | 224                                | 35.7                               | 56.6                               | 3.8                                | 11.4                               | 1.3                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 2.32   | 40.4   | 14.9  |
|         | 235.0  | 236.3 | 12,373                             | 22,725               | 2,126                              | 6,065                              | 375                                | 56.3                               | 80.6                               | 4.5                                | 11.1                               | 1.1                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 20.3                              | 4.38   | 37.9   | 14.4  |
|         | 236.3  | 237.2 | 7,811                              | 15,724               | 1,547                              | 4,584                              | 290                                | 42.5                               | 64.4                               | 3.7                                | 9.5                                | 1.0                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 20.3                              | 3.01   | 30.9   | 14.6  |
|         | 237.2  | 238.0 | 8,280                              | 17,198               | 1,728                              | 5,155                              | 330                                | 50.4                               | 75.4                               | 5.0                                | 14.6                               | 1.5                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 30.5                              | 3.29   | 46.1   | 6     |
|         | 238.0  | 238.6 | 5,184                              | 10,294               | 1,011                              | 3,021                              | 201                                | 30.6                               | 45.9                               | 2.8                                | 7.1                                | 0.9                                | 1.3                                | 0.1                                | 0.8                                | 0.1                                | 16.5                              | 1.98   | 25.2   | 15.8  |
|         | 238.6  | 239.3 | 9,910                              | 21,067               | 2,132                              | 6,450                              | 399                                | 60.3                               | 85.1                               | 4.9                                | 12.7                               | 1.4                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 4.02   | 40.2   | 3.7   |
|         | 239.3  | 240.0 | 4,117                              | 8,267                | 832                                | 2,601                              | 179                                | 28.5                               | 45.0                               | 2.9                                | 9.1                                | 0.9                                | 1.8                                | 0.1                                | 0.8                                | 0.1                                | 22.9                              | 1.61   | 28.1   | 7.8   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 240.0  | 240.9 | 4,808                              | 9,729                | 971                                | 2,998                              | 202                                | 31.0                               | 47.5                               | 2.7                                | 8.0                                | 0.8                                | 1.5                                | 0.1                                | 0.8                                | 0.1                                | 19.1                              | 1.88   | 24.3   | 10.5  |
|         | 240.9  | 241.6 | 5,430                              | 10,564               | 1,032                              | 3,126                              | 200                                | 29.3                               | 44.4                               | 2.4                                | 6.9                                | 0.8                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 2.05   | 19.8   | 6.1   |
|         | 241.6  | 242.1 | 3,260                              | 6,425                | 628                                | 1,913                              | 124                                | 18.5                               | 28.6                               | 1.9                                | 5.9                                | 0.8                                | 1.5                                | 0.2                                | 0.9                                | 0.1                                | 16.5                              | 1.24   | 11.8   | 8     |
|         | 242.1  | 242.6 | 5,676                              | 10,761               | 1,034                              | 3,091                              | 192                                | 28.1                               | 41.3                               | 2.5                                | 7.6                                | 0.8                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 2.09   | 19.4   | 9.1   |
|         | 242.6  | 243.0 | 17,768                             | 28,130               | 2,368                              | 6,380                              | 395                                | 65.7                               | 109.4                              | 8.0                                | 24.7                               | 2.7                                | 3.7                                | 0.2                                | 1.1                                | 0.2                                | 55.9                              | 5.53   | 46.5   | 2.2   |
|         | 243.0  | 243.6 | 6,521                              | 10,871               | 945                                | 2,578                              | 165                                | 27.0                               | 43.9                               | 3.8                                | 12.7                               | 1.7                                | 2.6                                | 0.3                                | 1.3                                | 0.2                                | 35.6                              | 2.12   | 22.2   | 17.1  |
|         | 243.6  | 244.5 | 13,253                             | 21,804               | 2,048                              | 5,319                              | 341                                | 52.5                               | 84.7                               | 5.4                                | 16.1                               | 1.5                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 31.8                              | 4.30   | 32.7   | 9.9   |
|         | 244.5  | 245.5 | 5,020                              | 9,582                | 913                                | 2,753                              | 177                                | 25.1                               | 39.9                               | 2.4                                | 7.6                                | 0.9                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 19.1                              | 1.85   | 17.9   | 6.6   |
|         | 245.5  | 246.5 | 7,037                              | 13,021               | 1,206                              | 3,604                              | 226                                | 32.9                               | 52.7                               | 3.3                                | 10.6                               | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 2.52   | 29.1   | 5.6   |
|         | 246.5  | 247.5 | 6,145                              | 11,522               | 1,085                              | 3,219                              | 199                                | 27.4                               | 42.5                               | 2.6                                | 6.7                                | 0.8                                | 1.3                                | 0.2                                | 0.8                                | 0.1                                | 17.8                              | 2.23   | 19.3   | 7.4   |
|         | 247.5  | 248.5 | 3,929                              | 7,248                | 673                                | 2,000                              | 121                                | 16.9                               | 25.4                               | 1.5                                | 4.6                                | 0.6                                | 1.1                                | 0.2                                | 0.7                                | 0.1                                | 14.0                              | 1.40   | 9.7    | 5.6   |
|         | 248.5  | 249.5 | 4,679                              | 8,562                | 799                                | 2,368                              | 150                                | 23.0                               | 36.5                               | 2.5                                | 7.4                                | 0.9                                | 1.7                                | 0.2                                | 1.0                                | 0.1                                | 20.3                              | 1.67   | 20.4   | 5.3   |
|         | 249.5  | 250.5 | 5,700                              | 11,559               | 1,145                              | 3,499                              | 228                                | 32.3                               | 50.6                               | 3.2                                | 10.4                               | 1.1                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 2.23   | 31.7   | 3.5   |
|         | 250.5  | 251.5 | 8,632                              | 17,628               | 1,867                              | 5,202                              | 321                                | 44.9                               | 66.3                               | 4.1                                | 10.4                               | 1.0                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 21.6                              | 3.38   | 34.2   | 2.6   |
|         | 251.5  | 252.5 | 5,489                              | 10,331               | 974                                | 2,881                              | 169                                | 24.7                               | 36.1                               | 2.2                                | 6.2                                | 0.8                                | 1.5                                | 0.2                                | 0.9                                | 0.2                                | 15.2                              | 1.99   | 14.6   | 4.6   |
|         | 252.5  | 253.0 | 7,529                              | 14,372               | 1,371                              | 4,082                              | 250                                | 36.0                               | 54.6                               | 3.3                                | 8.5                                | 0.8                                | 1.6                                | 0.2                                | 0.7                                | 0.1                                | 17.8                              | 2.77   | 22.1   | 5.7   |
|         | 253.0  | 254.0 | 7,905                              | 15,539               | 1,474                              | 4,362                              | 268                                | 37.4                               | 55.6                               | 3.2                                | 8.7                                | 1.0                                | 1.4                                | 0.2                                | 0.7                                | 0.1                                | 19.1                              | 2.97   | 24     | 4.5   |
|         | 254.0  | 255.0 | 6,873                              | 12,898               | 1,206                              | 3,569                              | 227                                | 33.7                               | 53.8                               | 3.6                                | 11.5                               | 1.3                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 2.49   | 32.4   | 7.7   |
|         | 255.0  | 256.0 | 6,087                              | 11,608               | 1,090                              | 3,324                              | 217                                | 33.0                               | 52.4                               | 3.4                                | 11.3                               | 1.2                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 29.2                              | 2.25   | 33.7   | 10.6  |
|         | 256.0  | 257.0 | 4,339                              | 8,181                | 767                                | 2,269                              | 151                                | 22.6                               | 35.6                               | 2.6                                | 9.4                                | 1.1                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 25.4                              | 1.58   | 20.3   | 13.9  |
|         | 257.0  | 258.0 | 4,914                              | 9,225                | 859                                | 2,578                              | 166                                | 25.5                               | 40.1                               | 2.6                                | 7.5                                | 0.9                                | 1.3                                | 0.1                                | 0.6                                | 0.1                                | 17.8                              | 1.78   | 24.1   | 13.4  |
|         | 258.0  | 259.0 | 4,973                              | 9,250                | 860                                | 2,601                              | 165                                | 24.1                               | 37.0                               | 2.2                                | 7.0                                | 0.8                                | 1.5                                | 0.1                                | 0.8                                | 0.1                                | 17.8                              | 1.79   | 18.2   | 11.2  |
|         | 259.0  | 260.0 | 4,328                              | 8,353                | 803                                | 2,426                              | 163                                | 24.1                               | 38.3                               | 2.4                                | 7.0                                | 0.8                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.62   | 21.4   | 17.1  |
|         | 260.0  | 261.0 | 4,199                              | 8,378                | 806                                | 2,484                              | 178                                | 28.4                               | 54.2                               | 4.8                                | 16.1                               | 1.5                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 39.4                              | 1.62   | 58.7   | 2.5   |
|         | 261.0  | 262.0 | 7,647                              | 15,232               | 1,462                              | 4,351                              | 277                                | 41.7                               | 66.0                               | 4.1                                | 11.1                               | 1.1                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 2.91   | 35     | 2.2   |
|         | 262.0  | 263.0 | 7,342                              | 14,986               | 1,468                              | 4,502                              | 298                                | 41.8                               | 66.5                               | 4.0                                | 11.3                               | 1.2                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.87   | 31.2   | 2.3   |
|         | 263.0  | 263.9 | 6,650                              | 13,820               | 1,353                              | 4,129                              | 267                                | 38.8                               | 63.9                               | 4.4                                | 13.0                               | 1.3                                | 1.7                                | 0.1                                | 0.7                                | 0.1                                | 26.7                              | 2.64   | 40.9   | 0.8   |
|         | 263.9  | 264.9 | 8,092                              | 17,136               | 1,843                              | 5,202                              | 344                                | 48.8                               | 79.0                               | 4.8                                | 13.5                               | 1.3                                | 2.1                                | 0.2                                | 0.7                                | 0.1                                | 27.9                              | 3.28   | 44.9   | 1.1   |
|         | 264.9  | 265.9 | 7,858                              | 15,171               | 1,438                              | 4,351                              | 289                                | 42.8                               | 67.1                               | 4.1                                | 10.9                               | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 2.93   | 30     | 4.8   |
|         | 265.9  | 266.9 | 17,299                             | 33,044               | 3,383                              | 9,774                              | 573                                | 83.1                               | 123.9                              | 6.9                                | 18.4                               | 1.9                                | 2.7                                | 0.2                                | 0.9                                | 0.1                                | 35.6                              | 6.43   | 47.9   | 1.3   |
|         | 266.9  | 267.8 | 7,846                              | 15,539               | 1,553                              | 4,631                              | 320                                | 46.9                               | 77.1                               | 5.3                                | 14.9                               | 1.5                                | 2.2                                | 0.2                                | 0.7                                | 0.1                                | 30.5                              | 3.01   | 51.6   | 13.1  |
|         | 267.8  | 268.8 | 7,049                              | 14,925               | 1,486                              | 4,631                              | 311                                | 45.7                               | 73.1                               | 4.5                                | 13.1                               | 1.3                                | 2.2                                | 0.2                                | 0.9                                | 0.2                                | 29.2                              | 2.86   | 43.8   | 4.3   |
|         | 268.8  | 269.8 | 3,237                              | 6,474                | 637                                | 1,965                              | 135                                | 19.6                               | 31.2                               | 1.8                                | 6.0                                | 0.7                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 1.25   | 15.4   | 5.3   |
|         | 269.8  | 270.8 | 7,389                              | 14,065               | 1,347                              | 4,082                              | 282                                | 41.8                               | 65.7                               | 3.8                                | 10.8                               | 1.2                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 2.73   | 29.8   | 6.1   |
|         | 270.8  | 271.8 | 8,714                              | 15,601               | 1,462                              | 4,316                              | 267                                | 41.5                               | 67.2                               | 3.9                                | 10.6                               | 1.0                                | 1.6                                | 0.2                                | 0.8                                | 0.2                                | 19.1                              | 3.05   | 26.7   | 5.1   |
|         | 271.8  | 272.8 | 6,955                              | 12,407               | 1,174                              | 3,488                              | 216                                | 33.2                               | 56.5                               | 3.8                                | 10.9                               | 1.1                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 2.44   | 27.9   | 3.9   |
|         | 272.8  | 273.8 | 5,876                              | 10,834               | 1,040                              | 3,103                              | 198                                | 31.2                               | 54.8                               | 3.3                                | 10.1                               | 1.0                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 20.3                              | 2.12   | 27     | 3.8   |
|         | 273.8  | 274.8 | 7,729                              | 14,372               | 1,547                              | 4,257                              | 282                                | 46.4                               | 71.2                               | 4.5                                | 13.1                               | 1.2                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 2.84   | 35.1   | 4.6   |
|         | 274.8  | 275.8 | 5,489                              | 11,129               | 1,165                              | 3,511                              | 233                                | 36.1                               | 54.1                               | 3.7                                | 11.3                               | 1.2                                | 1.9                                | 0.3                                | 1.3                                | 0.2                                | 25.4                              | 2.17   | 25.4   | 7.4   |
|         | 275.8  | 276.8 | 2,475                              | 4,742                | 481                                | 1,429                              | 95                                 | 14.6                               | 23.5                               | 1.5                                | 5.2                                | 0.5                                | 1.4                                | 0.1                                | 0.8                                | 0.1                                | 14.0                              | 0.93   | 13.9   | 6.9   |
|         | 276.8  | 277.8 | 4,515                              | 8,501                | 849                                | 2,461                              | 162                                | 25.7                               | 40.9                               | 2.6                                | 7.9                                | 0.9                                | 1.6                                | 0.2                                | 0.7                                | 0.2                                | 20.3                              | 1.66   | 17.4   | 3.8   |
|         | 277.8  | 278.6 | 4,386                              | 8,169                | 816                                | 2,379                              | 159                                | 25.5                               | 39.2                               | 2.6                                | 7.8                                | 0.9                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 1.60   | 16.6   | 1.3   |
|         | 278.6  | 279.4 | 5,149                              | 9,274                | 910                                | 2,671                              | 183                                | 29.8                               | 46.8                               | 3.0                                | 8.6                                | 0.9                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 19.1                              | 1.83   | 24.3   | 4     |
|         | 279.4  | 279.9 | 12,314                             | 22,173               | 2,271                              | 6,439                              | 385                                | 58.0                               | 85.9                               | 5.1                                | 14.5                               | 1.4                                | 2.6                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 4.38   | 36.1   | 6.6   |
|         | 279.9  | 280.5 | 1,841                              | 3,489                | 350                                | 1,040                              | 72                                 | 11.2                               | 17.5                               | 1.2                                | 3.6                                | 0.4                                | 0.8                                | 0.1                                | 0.5                                | 0.1                                | 10.2                              | 0.68   | 11.7   | 10.6  |
|         | 280.5  | 281.1 | 5,946                              | 11,436               | 1,149                              | 3,348                              | 212                                | 31.8                               | 48.8                               | 3.0                                | 9.9                                | 0.9                                | 1.6                                | 0.1                                | 0.8                                | 0.1                                | 20.3                              | 2.22   | 26.3   | 3.2   |



| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 281.1  | 281.9 | 8,761                              | 15,109               | 1,408                              | 4,094                              | 253                                | 40.9                               | 68.7                               | 4.2                                | 11.8                               | 1.1                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 2.98   | 37.2   | 3.8   |
|                 | 281.9  | 282.9 | 9,113                              | 15,969               | 1,504                              | 4,444                              | 292                                | 46.9                               | 88.4                               | 6.2                                | 18.1                               | 1.8                                | 2.3                                | 0.2                                | 1.1                                | 0.1                                | 36.8                              | 3.15   | 45.7   | 5.2   |
|                 | 282.9  | 283.9 | 4,891                              | 9,127                | 912                                | 2,846                              | 198                                | 32.5                               | 58.4                               | 4.0                                | 12.1                               | 1.2                                | 1.9                                | 0.2                                | 0.9                                | 0.2                                | 27.9                              | 1.81   | 44.4   | 6.7   |
|                 | 283.9  | 284.9 | 3,905                              | 8,243                | 860                                | 2,811                              | 210                                | 35.6                               | 62.8                               | 4.4                                | 14.0                               | 1.3                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 27.9                              | 1.62   | 41.6   | 5.1   |
|                 | 284.9  | 285.9 | 5,289                              | 10,036               | 1,012                              | 3,184                              | 227                                | 37.4                               | 64.3                               | 4.3                                | 11.4                               | 1.2                                | 1.9                                | 0.2                                | 0.7                                | 0.1                                | 24.1                              | 1.99   | 34.8   | 7.8   |
|                 | 285.9  | 286.9 | 14,250                             | 25,551               | 2,489                              | 6,952                              | 438                                | 72.6                               | 123.3                              | 7.4                                | 19.3                               | 1.7                                | 2.5                                | 0.2                                | 0.8                                | 0.2                                | 33.0                              | 4.99   | 50.9   | 4.4   |
|                 | 286.9  | 287.9 | 10,778                             | 18,795               | 1,764                              | 5,202                              | 347                                | 56.6                               | 101.2                              | 6.6                                | 19.1                               | 1.7                                | 2.7                                | 0.2                                | 0.9                                | 0.2                                | 36.8                              | 3.71   | 51.3   | 4.3   |
|                 | 287.9  | 288.8 | 6,145                              | 11,154               | 1,101                              | 3,383                              | 246                                | 40.4                               | 71.4                               | 5.0                                | 14.0                               | 1.2                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 27.9                              | 2.22   | 44.8   | 6.4   |
|                 | 288.8  | 289.6 | 7,506                              | 13,820               | 1,359                              | 4,129                              | 281                                | 47.4                               | 83.1                               | 5.5                                | 16.5                               | 1.6                                | 2.6                                | 0.3                                | 1.4                                | 0.2                                | 36.8                              | 2.73   | 53.5   | 7.2   |
|                 | 289.6  | 290.6 | 6,099                              | 11,965               | 1,238                              | 3,919                              | 288                                | 49.8                               | 97.2                               | 7.7                                | 24.3                               | 2.4                                | 2.9                                | 0.3                                | 1.7                                | 0.2                                | 50.8                              | 2.37   | 90.2   | 5     |
|                 | 290.6  | 291.2 | 2,486                              | 5,221                | 512                                | 1,592                              | 106                                | 17.1                               | 33.0                               | 2.5                                | 8.4                                | 0.8                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 1.00   | 21.6   | 7     |
|                 | 291.2  | 291.7 | 7,189                              | 13,144               | 1,250                              | 3,721                              | 235                                | 37.5                               | 68.1                               | 4.7                                | 14.9                               | 1.5                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 29.2                              | 2.57   | 39.1   | 2.7   |
|                 | 291.7  | 292.5 | 11,200                             | 20,637               | 1,963                              | 5,785                              | 361                                | 55.6                               | 92.4                               | 5.4                                | 14.0                               | 1.4                                | 2.1                                | 0.2                                | 0.8                                | 0.2                                | 26.7                              | 4.01   | 31     | 2.9   |
|                 | 292.5  | 293.1 | 8,257                              | 15,539               | 1,486                              | 4,456                              | 282                                | 43.7                               | 73.9                               | 4.2                                | 11.4                               | 1.1                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 3.02   | 27.1   | 5.1   |
|                 | 293.1  | 294.5 | 3,905                              | 7,579                | 750                                | 2,333                              | 159                                | 25.4                               | 42.9                               | 2.5                                | 7.2                                | 0.8                                | 1.4                                | 0.1                                | 0.9                                | 0.1                                | 15.2                              | 1.48   | 15.4   | 4.2   |
|                 | 294.5  | 295.4 | 6,169                              | 11,596               | 1,162                              | 3,593                              | 245                                | 37.2                               | 62.8                               | 3.5                                | 9.6                                | 1.0                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 20.3                              | 2.29   | 24     | 4.3   |
|                 | 295.4  | 296.0 | 5,594                              | 11,756               | 1,244                              | 4,001                              | 293                                | 47.0                               | 81.7                               | 5.3                                | 15.2                               | 1.4                                | 1.7                                | 0.1                                | 0.7                                | 0.1                                | 26.7                              | 2.31   | 55.9   | 1.6   |
|                 | 296.0  | 296.9 | 9,253                              | 16,522               | 1,583                              | 4,677                              | 290                                | 44.5                               | 74.5                               | 4.9                                | 14.0                               | 1.2                                | 1.9                                | 0.2                                | 0.6                                | 0.1                                | 27.9                              | 3.25   | 43.8   | 3.3   |
|                 | 296.9  | 297.9 | 3,518                              | 7,346                | 748                                | 2,368                              | 152                                | 22.1                               | 38.6                               | 2.9                                | 8.4                                | 0.8                                | 1.5                                | 0.1                                | 0.6                                | 0.1                                | 17.8                              | 1.42   | 27.1   | 2.8   |
|                 | 297.9  | 298.9 | 12,959                             | 25,305               | 2,694                              | 8,002                              | 494                                | 68.9                               | 111.9                              | 7.5                                | 20.4                               | 1.9                                | 2.9                                | 0.2                                | 0.9                                | 0.1                                | 38.1                              | 4.97   | 66.7   | 5.9   |
|                 | 298.9  | 299.8 | 4,633                              | 9,016                | 910                                | 2,799                              | 187                                | 26.5                               | 45.2                               | 3.1                                | 9.3                                | 0.9                                | 1.8                                | 0.2                                | 1.1                                | 0.1                                | 21.6                              | 1.77   | 24.5   | 9.2   |
|                 | 299.8  | 300.6 | 10,438                             | 20,944               | 2,217                              | 6,159                              | 363                                | 50.1                               | 81.0                               | 5.4                                | 15.6                               | 1.6                                | 2.4                                | 0.2                                | 1.0                                | 0.1                                | 34.3                              | 4.03   | 48.3   | 2.1   |
| <b>KGKDD003</b> | 0.0    | 1.0   | 2,475                              | 5,638                | 598                                | 2,012                              | 172                                | 28.5                               | 50.0                               | 3.4                                | 11.9                               | 1.5                                | 3.2                                | 0.3                                | 2.1                                | 0.3                                | 36.8                              | 1.10   | 43.6   | 29.1  |
|                 | 1.0    | 2.0   | 1,806                              | 4,631                | 544                                | 2,059                              | 248                                | 46.0                               | 85.4                               | 6.4                                | 21.2                               | 2.5                                | 4.4                                | 0.5                                | 2.7                                | 0.4                                | 61.0                              | 0.95   | 62.5   | 19.1  |
|                 | 2.0    | 3.0   | 993                                | 2,678                | 317                                | 1,207                              | 139                                | 26.6                               | 49.3                               | 3.7                                | 12.4                               | 1.5                                | 3.2                                | 0.3                                | 2.2                                | 0.3                                | 39.4                              | 0.55   | 46.5   | 25.5  |
|                 | 3.0    | 4.0   | 1,724                              | 4,029                | 437                                | 1,528                              | 141                                | 25.8                               | 45.3                               | 3.4                                | 11.7                               | 1.3                                | 3.0                                | 0.3                                | 1.8                                | 0.2                                | 35.6                              | 0.80   | 45.1   | 27    |
|                 | 4.0    | 5.0   | 1,929                              | 4,680                | 530                                | 1,925                              | 188                                | 30.5                               | 50.9                               | 3.1                                | 9.0                                | 0.9                                | 1.4                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 0.94   | 43.7   | 23.2  |
|                 | 5.0    | 6.0   | 2,627                              | 6,167                | 687                                | 2,344                              | 199                                | 33.4                               | 56.9                               | 3.8                                | 10.8                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 26.7                              | 1.22   | 51.5   | 20.3  |
|                 | 6.0    | 7.0   | 1,853                              | 4,521                | 495                                | 1,697                              | 145                                | 25.9                               | 46.2                               | 3.5                                | 11.9                               | 1.2                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 29.2                              | 0.88   | 57.1   | 23.5  |
|                 | 7.0    | 8.0   | 1,378                              | 3,132                | 332                                | 1,113                              | 95                                 | 16.6                               | 32.7                               | 2.8                                | 10.0                               | 1.2                                | 2.4                                | 0.3                                | 2.3                                | 0.3                                | 31.8                              | 0.62   | 34.7   | 43.2  |
|                 | 8.0    | 9.0   | 1,255                              | 3,182                | 359                                | 1,306                              | 136                                | 24.4                               | 44.7                               | 3.2                                | 11.9                               | 1.3                                | 3.1                                | 0.3                                | 2.3                                | 0.4                                | 36.8                              | 0.64   | 30.5   | 28.8  |
|                 | 9.0    | 10.0  | 1,970                              | 4,791                | 540                                | 1,942                              | 205                                | 36.8                               | 62.7                               | 4.5                                | 13.0                               | 1.6                                | 2.6                                | 0.3                                | 1.8                                | 0.2                                | 34.3                              | 0.96   | 59.2   | 23.4  |
|                 | 10.0   | 11.0  | 3,342                              | 6,670                | 651                                | 2,012                              | 147                                | 24.7                               | 41.6                               | 3.1                                | 9.9                                | 1.1                                | 1.9                                | 0.2                                | 1.6                                | 0.2                                | 30.5                              | 1.29   | 39.1   | 25.5  |
|                 | 11.0   | 12.0  | 2,041                              | 4,864                | 551                                | 2,024                              | 217                                | 38.6                               | 65.5                               | 4.5                                | 13.5                               | 1.6                                | 3.2                                | 0.4                                | 2.5                                | 0.4                                | 39.4                              | 0.99   | 65.9   | 23.6  |
|                 | 12.0   | 13.0  | 992                                | 2,432                | 286                                | 1,100                              | 146                                | 28.7                               | 52.9                               | 3.9                                | 13.8                               | 1.8                                | 3.7                                | 0.5                                | 2.9                                | 0.4                                | 48.3                              | 0.51   | 49.6   | 17    |
|                 | 13.0   | 14.0  | 2,381                              | 5,479                | 619                                | 2,199                              | 224                                | 42.2                               | 74.6                               | 5.6                                | 18.1                               | 2.1                                | 3.7                                | 0.4                                | 2.6                                | 0.3                                | 48.3                              | 1.11   | 58.4   | 28.4  |
|                 | 14.0   | 15.0  | 3,988                              | 8,390                | 912                                | 3,091                              | 276                                | 50.7                               | 91.3                               | 7.1                                | 23.6                               | 2.5                                | 4.5                                | 0.5                                | 2.3                                | 0.4                                | 59.7                              | 1.69   | 96.8   | 26.4  |
|                 | 15.0   | 16.0  | 2,334                              | 5,073                | 528                                | 1,691                              | 124                                | 20.8                               | 36.7                               | 3.0                                | 10.3                               | 1.2                                | 2.3                                | 0.3                                | 1.4                                | 0.2                                | 29.2                              | 0.99   | 40.1   | 29.3  |
|                 | 16.0   | 17.0  | 8,550                              | 17,628               | 1,849                              | 5,832                              | 405                                | 65.2                               | 108.7                              | 8.1                                | 23.3                               | 2.4                                | 3.8                                | 0.3                                | 1.7                                | 0.2                                | 53.3                              | 3.45   | 87.7   | 13.6  |
|                 | 17.0   | 18.0  | 3,131                              | 6,326                | 652                                | 2,164                              | 190                                | 34.4                               | 63.1                               | 4.8                                | 16.3                               | 1.9                                | 3.5                                | 0.3                                | 2.2                                | 0.3                                | 48.3                              | 1.26   | 64.4   | 28.1  |
|                 | 18.0   | 19.0  | 2,439                              | 5,307                | 558                                | 1,872                              | 151                                | 27.7                               | 50.7                               | 4.6                                | 15.4                               | 2.1                                | 3.4                                | 0.5                                | 3.4                                | 0.4                                | 57.2                              | 1.05   | 44.7   | 18.8  |
|                 | 19.0   | 20.0  | 1,360                              | 3,132                | 337                                | 1,172                              | 114                                | 21.3                               | 37.5                               | 3.1                                | 9.8                                | 1.1                                | 2.1                                | 0.2                                | 1.4                                | 0.2                                | 25.4                              | 0.62   | 41.8   | 22.4  |
|                 | 20.0   | 21.0  | 4,633                              | 11,068               | 1,183                              | 3,919                              | 325                                | 54.4                               | 90.8                               | 6.4                                | 18.0                               | 1.9                                | 2.7                                | 0.2                                | 1.3                                | 0.2                                | 39.4                              | 2.13   | 68     | 9.8   |
|                 | 21.0   | 22.0  | 3,859                              | 8,488                | 853                                | 2,659                              | 195                                | 32.2                               | 55.9                               | 4.5                                | 14.7                               | 1.6                                | 3.2                                | 0.3                                | 1.6                                | 0.2                                | 44.5                              | 1.62   | 45.8   | 23.9  |
|                 | 22.0   | 23.0  | 6,427                              | 12,898               | 1,317                              | 4,106                              | 292                                | 48.6                               | 81.5                               | 6.2                                | 20.0                               | 2.1                                | 3.3                                | 0.4                                | 1.7                                | 0.3                                | 52.1                              | 2.53   | 64.5   | 21.8  |
|                 | 23.0   | 24.0  | 3,964                              | 8,623                | 940                                | 3,114                              | 255                                | 44.4                               | 81.8                               | 6.5                                | 19.1                               | 1.7                                | 2.5                                | 0.2                                | 0.9                                | 0.1                                | 38.1                              | 1.71   | 81.6   | 14.8  |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 24.0   | 25.0 | 2,463                              | 5,675                | 607                                | 2,018                              | 161                                | 25.8                               | 45.1                               | 3.3                                | 10.4                               | 1.2                                | 1.9                                | 0.2                                | 1.3                                | 0.2                                | 24.1                              | 1.10   | 43.4   | 26.3  |
|         | 25.0   | 26.0 | 2,111                              | 4,889                | 529                                | 1,855                              | 180                                | 34.9                               | 65.8                               | 5.2                                | 17.7                               | 2.0                                | 3.9                                | 0.4                                | 3.2                                | 0.4                                | 52.1                              | 0.97   | 59.2   | 30.8  |
|         | 26.0   | 27.0 | 9,347                              | 16,706               | 1,571                              | 4,572                              | 289                                | 48.5                               | 86.7                               | 7.0                                | 21.4                               | 2.2                                | 3.7                                | 0.3                                | 1.6                                | 0.2                                | 50.8                              | 3.27   | 78.5   | 18.1  |
|         | 27.0   | 28.0 | 2,170                              | 5,196                | 584                                | 2,018                              | 184                                | 34.6                               | 61.2                               | 5.2                                | 17.2                               | 2.0                                | 4.4                                | 0.6                                | 3.4                                | 0.6                                | 59.7                              | 1.03   | 63.4   | 23.1  |
|         | 28.0   | 29.0 | 1,835                              | 4,299                | 486                                | 1,674                              | 146                                | 28.1                               | 46.6                               | 3.4                                | 10.9                               | 1.2                                | 2.2                                | 0.2                                | 1.5                                | 0.1                                | 29.2                              | 0.86   | 51.4   | 26.9  |
|         | 29.0   | 30.0 | 3,941                              | 7,456                | 739                                | 2,245                              | 161                                | 30.9                               | 53.3                               | 4.2                                | 11.9                               | 1.4                                | 2.3                                | 0.3                                | 1.3                                | 0.2                                | 30.5                              | 1.47   | 54.8   | 27.8  |
|         | 30.0   | 31.0 | 3,436                              | 7,014                | 729                                | 2,245                              | 161                                | 28.3                               | 49.8                               | 4.1                                | 13.1                               | 1.2                                | 2.4                                | 0.3                                | 1.3                                | 0.2                                | 31.8                              | 1.37   | 49.4   | 17.2  |
|         | 31.0   | 32.0 | 2,510                              | 5,516                | 594                                | 1,925                              | 153                                | 27.6                               | 46.3                               | 3.8                                | 11.5                               | 1.3                                | 1.8                                | 0.2                                | 1.0                                | 0.2                                | 29.2                              | 1.08   | 45.4   | 23    |
|         | 32.0   | 32.9 | 3,178                              | 7,358                | 881                                | 3,161                              | 279                                | 48.1                               | 73.9                               | 4.8                                | 13.1                               | 1.3                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 25.4                              | 1.50   | 55.5   | 24    |
|         | 32.9   | 33.9 | 3,882                              | 8,341                | 886                                | 2,881                              | 217                                | 37.5                               | 62.8                               | 5.0                                | 14.0                               | 1.3                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 30.5                              | 1.64   | 55.6   | 17.8  |
|         | 33.9   | 34.9 | 1,812                              | 3,906                | 388                                | 1,196                              | 87                                 | 14.8                               | 26.7                               | 2.1                                | 7.1                                | 0.7                                | 1.4                                | 0.2                                | 0.8                                | 0.1                                | 17.8                              | 0.75   | 25.7   | 25.2  |
|         | 34.9   | 35.9 | 3,425                              | 7,395                | 830                                | 2,799                              | 233                                | 40.4                               | 68.6                               | 4.7                                | 13.7                               | 1.4                                | 1.8                                | 0.2                                | 0.7                                | 0.1                                | 26.7                              | 1.48   | 52.7   | 14.9  |
|         | 35.9   | 36.9 | 7,049                              | 13,697               | 1,389                              | 4,234                              | 293                                | 54.4                               | 106.7                              | 9.7                                | 32.1                               | 2.7                                | 3.5                                | 0.3                                | 0.9                                | 0.2                                | 59.7                              | 2.69   | 146    | 14.5  |
|         | 36.9   | 37.9 | 3,014                              | 6,707                | 730                                | 2,414                              | 186                                | 35.7                               | 78.2                               | 8.6                                | 26.4                               | 2.2                                | 2.4                                | 0.2                                | 0.7                                | 0.1                                | 43.2                              | 1.32   | 136    | 4.6   |
|         | 37.9   | 38.9 | 6,861                              | 14,004               | 1,492                              | 4,642                              | 306                                | 50.6                               | 84.8                               | 6.0                                | 15.6                               | 1.4                                | 1.8                                | 0.2                                | 0.6                                | 0.1                                | 27.9                              | 2.75   | 64.4   | 5.5   |
|         | 38.9   | 39.9 | 3,448                              | 7,076                | 736                                | 2,321                              | 163                                | 24.8                               | 43.2                               | 3.4                                | 11.4                               | 1.1                                | 2.2                                | 0.2                                | 0.9                                | 0.2                                | 26.7                              | 1.39   | 32.5   | 16.4  |
|         | 39.9   | 40.7 | 4,457                              | 9,360                | 987                                | 3,079                              | 197                                | 29.9                               | 46.8                               | 3.4                                | 10.7                               | 1.2                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 24.1                              | 1.82   | 32.2   | 8.3   |
|         | 40.7   | 41.2 | 3,038                              | 6,388                | 662                                | 2,065                              | 152                                | 25.2                               | 45.2                               | 3.4                                | 11.1                               | 1.2                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 26.7                              | 1.24   | 39.6   | 19    |
|         | 41.2   | 41.9 | 3,073                              | 6,523                | 675                                | 2,123                              | 157                                | 29.0                               | 50.1                               | 3.8                                | 12.9                               | 1.2                                | 1.6                                | 0.2                                | 0.8                                | 0.2                                | 24.1                              | 1.27   | 51.5   | 8     |
|         | 41.9   | 42.6 | 3,155                              | 6,891                | 752                                | 2,484                              | 202                                | 34.6                               | 55.0                               | 4.2                                | 11.5                               | 1.2                                | 2.1                                | 0.2                                | 0.8                                | 0.2                                | 25.4                              | 1.36   | 41.4   | 21.3  |
|         | 42.6   | 43.0 | 2,674                              | 5,552                | 562                                | 1,726                              | 107                                | 16.6                               | 26.7                               | 2.4                                | 8.8                                | 1.0                                | 1.7                                | 0.2                                | 0.9                                | 0.2                                | 24.1                              | 1.07   | 21.7   | 6.1   |
|         | 43.0   | 44.0 | 5,160                              | 10,183               | 1,028                              | 3,079                              | 183                                | 28.1                               | 43.9                               | 3.3                                | 11.6                               | 1.1                                | 1.8                                | 0.1                                | 0.9                                | 0.1                                | 25.4                              | 1.98   | 33.9   | 7.4   |
|         | 44.0   | 44.3 | 6,310                              | 12,259               | 1,244                              | 3,697                              | 213                                | 30.7                               | 48.3                               | 3.1                                | 10.2                               | 1.1                                | 1.6                                | 0.2                                | 0.7                                | 0.1                                | 22.9                              | 2.38   | 30.8   | 14.1  |
|         | 44.3   | 44.9 | 7,260                              | 15,232               | 1,649                              | 5,202                              | 346                                | 55.1                               | 86.7                               | 5.9                                | 15.3                               | 1.5                                | 2.5                                | 0.2                                | 1.1                                | 0.1                                | 33.0                              | 2.99   | 52.7   | 14.2  |
|         | 44.9   | 45.7 | 3,823                              | 7,481                | 794                                | 2,554                              | 191                                | 29.4                               | 48.8                               | 3.6                                | 11.1                               | 1.0                                | 1.7                                | 0.1                                | 0.7                                | 0.1                                | 21.6                              | 1.50   | 36.2   | 21.4  |
|         | 45.7   | 46.6 | 3,038                              | 6,302                | 675                                | 2,164                              | 155                                | 27.0                               | 45.1                               | 3.2                                | 9.4                                | 1.0                                | 2.1                                | 0.3                                | 1.4                                | 0.2                                | 25.4                              | 1.24   | 38     | 21.9  |
|         | 46.6   | 47.0 | 1,882                              | 4,385                | 498                                | 1,726                              | 161                                | 33.0                               | 70.3                               | 6.4                                | 20.2                               | 1.8                                | 2.7                                | 0.2                                | 1.7                                | 0.3                                | 43.2                              | 0.88   | 119    | 11.2  |
|         | 47.0   | 48.0 | 2,064                              | 4,607                | 498                                | 1,685                              | 135                                | 24.8                               | 45.9                               | 4.3                                | 17.0                               | 2.1                                | 5.2                                | 0.7                                | 4.0                                | 0.7                                | 66.0                              | 0.92   | 38.8   | 22.3  |
|         | 48.0   | 49.0 | 2,205                              | 4,840                | 523                                | 1,744                              | 137                                | 22.0                               | 36.3                               | 2.5                                | 7.6                                | 0.8                                | 1.7                                | 0.2                                | 1.1                                | 0.2                                | 19.1                              | 0.95   | 29.1   | 19.6  |
|         | 49.0   | 50.0 | 3,260                              | 7,297                | 807                                | 2,624                              | 191                                | 31.4                               | 49.2                               | 3.2                                | 9.1                                | 0.8                                | 1.7                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.43   | 34.9   | 27    |
|         | 50.0   | 50.9 | 2,234                              | 5,184                | 568                                | 1,919                              | 167                                | 33.1                               | 61.2                               | 5.2                                | 20.3                               | 2.5                                | 5.4                                | 0.6                                | 3.3                                | 0.4                                | 64.8                              | 1.03   | 32.5   | 16.2  |
|         | 50.9   | 51.9 | 2,369                              | 4,987                | 517                                | 1,680                              | 139                                | 27.3                               | 53.8                               | 4.9                                | 23.4                               | 3.3                                | 7.9                                | 0.9                                | 5.1                                | 0.9                                | 91.4                              | 0.99   | 39.8   | 7.3   |
|         | 51.9   | 52.6 | 3,765                              | 7,739                | 805                                | 2,531                              | 181                                | 32.3                               | 58.4                               | 5.1                                | 19.1                               | 2.7                                | 6.8                                | 0.7                                | 3.9                                | 0.4                                | 72.4                              | 1.52   | 41     | 12    |
|         | 52.6   | 53.6 | 3,378                              | 7,493                | 800                                | 2,624                              | 187                                | 30.8                               | 49.9                               | 3.4                                | 11.0                               | 1.2                                | 2.4                                | 0.2                                | 1.4                                | 0.1                                | 29.2                              | 1.46   | 34.6   | 14    |
|         | 53.6   | 54.3 | 2,187                              | 5,233                | 584                                | 1,965                              | 152                                | 24.3                               | 37.6                               | 2.3                                | 7.6                                | 0.9                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 19.1                              | 1.02   | 32.1   | 25.8  |
|         | 54.3   | 54.9 | 2,744                              | 6,228                | 674                                | 2,239                              | 169                                | 27.8                               | 46.5                               | 3.4                                | 10.2                               | 1.1                                | 2.2                                | 0.3                                | 1.4                                | 0.2                                | 27.9                              | 1.22   | 34.6   | 14.8  |
|         | 54.9   | 55.5 | 2,662                              | 5,896                | 621                                | 2,006                              | 144                                | 23.3                               | 39.0                               | 2.9                                | 10.0                               | 1.0                                | 1.6                                | 0.2                                | 1.1                                | 0.1                                | 24.1                              | 1.14   | 29.1   | 15.9  |
|         | 55.5   | 56.3 | 8,761                              | 18,979               | 2,036                              | 6,334                              | 379                                | 59.5                               | 100.7                              | 8.0                                | 22.0                               | 2.0                                | 2.9                                | 0.2                                | 0.9                                | 0.1                                | 41.9                              | 3.67   | 90.9   | 5.2   |
|         | 56.3   | 56.9 | 3,120                              | 7,198                | 801                                | 2,718                              | 215                                | 35.7                               | 59.6                               | 4.2                                | 12.3                               | 1.2                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 1.42   | 43.6   | 24    |
|         | 56.9   | 57.3 | 3,577                              | 7,935                | 883                                | 2,951                              | 216                                | 36.0                               | 58.0                               | 4.5                                | 13.4                               | 1.3                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 30.5                              | 1.57   | 39     | 19.1  |
|         | 57.3   | 58.2 | 3,776                              | 7,899                | 849                                | 2,811                              | 220                                | 39.0                               | 67.3                               | 5.3                                | 16.1                               | 1.7                                | 2.9                                | 0.2                                | 1.1                                | 0.2                                | 38.1                              | 1.57   | 54.5   | 14.3  |
|         | 58.2   | 58.9 | 3,554                              | 7,690                | 838                                | 2,788                              | 213                                | 36.4                               | 64.7                               | 4.6                                | 13.1                               | 1.3                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 33.0                              | 1.52   | 49.3   | 14.1  |
|         | 58.9   | 59.3 | 3,964                              | 7,739                | 794                                | 2,461                              | 181                                | 31.3                               | 58.4                               | 4.3                                | 11.4                               | 1.1                                | 1.6                                | 0.1                                | 0.5                                | -0.1                               | 24.1                              | 1.53   | 46.9   | 3.9   |
|         | 59.3   | 59.8 | 4,609                              | 9,545                | 1,012                              | 3,243                              | 234                                | 39.1                               | 65.0                               | 4.6                                | 13.3                               | 1.2                                | 2.1                                | 0.2                                | 0.7                                | 0.1                                | 27.9                              | 1.88   | 46.7   | 7.3   |
|         | 59.8   | 60.3 | 2,615                              | 5,847                | 642                                | 2,152                              | 183                                | 33.5                               | 62.7                               | 5.2                                | 17.1                               | 1.8                                | 3.2                                | 0.3                                | 1.8                                | 0.2                                | 43.2                              | 1.16   | 53.1   | 16.5  |
|         | 60.3   | 61.3 | 3,342                              | 7,456                | 824                                | 2,741                              | 205                                | 33.7                               | 55.3                               | 4.0                                | 11.3                               | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.2                                | 22.9                              | 1.47   | 39.6   | 17.5  |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 61.3   | 62.3 | 2,897                              | 6,375                | 679                                | 2,210                              | 161                                | 27.4                               | 46.5                               | 3.5                                | 10.1                               | 1.0                                | 1.8                                | 0.1                                | 0.7                                | 0.1                                | 22.9                              | 1.24   | 44.9   | 14.2  |
|         | 62.3   | 63.3 | 12,842                             | 21,067               | 1,921                              | 5,470                              | 343                                | 57.7                               | 101.8                              | 8.7                                | 27.4                               | 2.8                                | 3.9                                | 0.3                                | 1.4                                | 0.2                                | 63.5                              | 4.19   | 68.7   | 4.2   |
|         | 63.3   | 64.3 | 6,955                              | 12,407               | 1,203                              | 3,604                              | 252                                | 45.0                               | 88.3                               | 8.9                                | 30.2                               | 3.0                                | 4.0                                | 0.3                                | 1.1                                | 0.1                                | 64.8                              | 2.47   | 79.6   | 2.6   |
|         | 64.3   | 65.0 | 4,398                              | 9,213                | 975                                | 3,161                              | 237                                | 41.2                               | 75.2                               | 5.9                                | 19.5                               | 1.8                                | 3.0                                | 0.3                                | 1.3                                | 0.2                                | 40.6                              | 1.82   | 75.3   | 3.3   |
|         | 65.0   | 65.9 | 4,949                              | 10,024               | 1,069                              | 3,394                              | 234                                | 38.8                               | 66.9                               | 4.9                                | 13.4                               | 1.3                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 29.2                              | 1.98   | 46.3   | 4.5   |
|         | 65.9   | 66.5 | 7,295                              | 14,004               | 1,462                              | 4,584                              | 337                                | 55.6                               | 99.7                               | 7.8                                | 21.4                               | 1.9                                | 2.6                                | 0.2                                | 1.1                                | 0.1                                | 41.9                              | 2.79   | 74     | 2.7   |
|         | 66.5   | 67.4 | 6,849                              | 14,925               | 1,637                              | 5,295                              | 355                                | 55.6                               | 84.0                               | 5.7                                | 14.9                               | 1.5                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 30.5                              | 2.93   | 44.9   | 3.3   |
|         | 67.4   | 68.1 | 7,213                              | 15,232               | 1,649                              | 5,330                              | 386                                | 61.8                               | 96.6                               | 6.2                                | 16.2                               | 1.5                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 30.5                              | 3.00   | 49.1   | 8.9   |
|         | 68.1   | 69.0 | 4,656                              | 9,655                | 1,031                              | 3,324                              | 238                                | 36.2                               | 57.4                               | 3.5                                | 10.2                               | 1.0                                | 1.7                                | 0.1                                | 0.8                                | 0.1                                | 21.6                              | 1.90   | 31.2   | 16.6  |
|         | 69.0   | 70.0 | 4,222                              | 8,697                | 907                                | 2,881                              | 208                                | 37.2                               | 67.8                               | 6.4                                | 23.0                               | 2.9                                | 5.6                                | 0.6                                | 2.7                                | 0.3                                | 76.2                              | 1.71   | 44.7   | 6.3   |
|         | 70.0   | 70.6 | 5,266                              | 10,564               | 1,108                              | 3,523                              | 246                                | 40.4                               | 67.4                               | 4.9                                | 14.6                               | 1.4                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 33.0                              | 2.09   | 45     | 7.9   |
|         | 70.6   | 71.1 | 6,650                              | 13,328               | 1,395                              | 4,386                              | 303                                | 50.4                               | 82.3                               | 5.8                                | 17.2                               | 1.6                                | 2.6                                | 0.2                                | 0.8                                | 0.1                                | 35.6                              | 2.63   | 47.4   | 2.9   |
|         | 71.1   | 71.9 | 16,947                             | 34,887               | 3,516                              | 10,591                             | 657                                | 94.8                               | 147.0                              | 7.9                                | 22.0                               | 2.2                                | 2.7                                | 0.2                                | 0.7                                | 0.1                                | 40.6                              | 6.69   | 59.7   | 1.1   |
|         | 71.9   | 72.9 | 5,360                              | 10,982               | 1,155                              | 3,616                              | 238                                | 38.2                               | 59.9                               | 4.1                                | 12.5                               | 1.2                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 2.15   | 33.3   | 2.5   |
|         | 72.9   | 73.9 | 5,887                              | 11,301               | 1,165                              | 3,674                              | 248                                | 40.5                               | 67.2                               | 4.7                                | 14.5                               | 1.5                                | 1.9                                | 0.1                                | 0.9                                | 0.1                                | 31.8                              | 2.24   | 38.3   | 3.8   |
|         | 73.9   | 74.8 | 2,756                              | 5,945                | 636                                | 2,076                              | 157                                | 24.4                               | 41.0                               | 2.6                                | 7.6                                | 0.7                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 15.2                              | 1.17   | 26.2   | 13.1  |
|         | 74.8   | 75.8 | 2,662                              | 5,405                | 553                                | 1,767                              | 126                                | 19.7                               | 31.5                               | 2.4                                | 8.3                                | 0.9                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 1.06   | 20.5   | 5.6   |
|         | 75.8   | 76.5 | 10,778                             | 20,760               | 2,006                              | 5,914                              | 363                                | 55.0                               | 83.5                               | 5.4                                | 17.2                               | 1.7                                | 2.7                                | 0.2                                | 1.0                                | 0.1                                | 39.4                              | 4.00   | 42.3   | 1.1   |
|         | 76.5   | 77.2 | 5,887                              | 11,694               | 1,170                              | 3,534                              | 238                                | 38.7                               | 64.6                               | 4.5                                | 14.1                               | 1.5                                | 2.5                                | 0.2                                | 1.4                                | 0.2                                | 34.3                              | 2.27   | 31.7   | 1.4   |
|         | 77.2   | 77.7 | 3,167                              | 5,970                | 598                                | 1,884                              | 160                                | 30.2                               | 55.3                               | 4.2                                | 15.0                               | 1.9                                | 3.9                                | 0.4                                | 2.6                                | 0.3                                | 48.3                              | 1.19   | 29.2   | 4.1   |
|         | 77.7   | 78.4 | 5,242                              | 10,785               | 1,112                              | 3,476                              | 256                                | 41.0                               | 64.8                               | 4.1                                | 11.7                               | 1.3                                | 1.8                                | 0.2                                | 1.0                                | 0.2                                | 27.9                              | 2.10   | 30.3   | 10.7  |
|         | 78.4   | 79.2 | 2,334                              | 4,778                | 494                                | 1,545                              | 114                                | 18.34                              | 31.2                               | 2.1                                | 6.8                                | 0.9                                | 1.5                                | 0.1                                | 0.8                                | 0.1                                | 19.1                              | 0.93   | 16.6   | 6.3   |
|         | 79.2   | 79.9 | 1,284                              | 2,739                | 295                                | 991                                | 105                                | 22.4                               | 52.4                               | 5.7                                | 25.8                               | 4.1                                | 9.8                                | 1.1                                | 6.3                                | 0.8                                | 115.6                             | 0.57   | 25.7   | 8     |
|         | 79.9   | 80.9 | 1,613                              | 3,440                | 370                                | 1,207                              | 102                                | 18.5                               | 34.5                               | 2.8                                | 10.2                               | 1.5                                | 3.0                                | 0.3                                | 1.9                                | 0.3                                | 38.1                              | 0.68   | 19.2   | 3.8   |
|         | 80.9   | 81.9 | 1,777                              | 3,808                | 417                                | 1,394                              | 145                                | 31.6                               | 68.0                               | 6.6                                | 25.6                               | 3.7                                | 8.7                                | 0.9                                | 5.7                                | 0.8                                | 101.6                             | 0.78   | 40     | 6.3   |
|         | 81.9   | 82.9 | 1,093                              | 2,260                | 243                                | 828                                | 93                                 | 22.5                               | 53.9                               | 6.4                                | 29.5                               | 4.5                                | 10.3                               | 1.0                                | 5.9                                | 0.8                                | 125.7                             | 0.48   | 30.7   | 7.5   |
|         | 82.9   | 83.9 | 2,176                              | 4,754                | 505                                | 1,592                              | 120                                | 19.7                               | 34.1                               | 2.2                                | 7.1                                | 0.8                                | 1.7                                | 0.2                                | 0.9                                | 0.2                                | 22.9                              | 0.92   | 18.6   | 2.7   |
|         | 83.9   | 84.4 | 3,776                              | 7,923                | 807                                | 2,484                              | 168                                | 26.8                               | 40.7                               | 2.6                                | 6.7                                | 0.7                                | 1.0                                | 0.1                                | 0.6                                | -0.1                               | 15.2                              | 1.53   | 21.3   | 3     |
|         | 84.4   | 85.1 | 3,870                              | 7,456                | 742                                | 2,263                              | 162                                | 26.3                               | 42.7                               | 2.7                                | 8.8                                | 1.1                                | 1.6                                | 0.2                                | 0.7                                | 0.1                                | 24.1                              | 1.46   | 21.4   | 4     |
|         | 85.1   | 86.0 | 4,433                              | 8,525                | 835                                | 2,519                              | 180                                | 28.7                               | 45.3                               | 2.8                                | 8.4                                | 1.0                                | 1.5                                | 0.2                                | 1.0                                | 0.2                                | 21.6                              | 1.66   | 21.8   | 4.5   |
|         | 86.0   | 86.9 | 4,515                              | 10,417               | 1,124                              | 3,686                              | 254                                | 39.1                               | 58.9                               | 3.3                                | 9.5                                | 1.0                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 2.01   | 21.3   | 1.5   |
|         | 86.9   | 87.9 | 4,222                              | 9,176                | 961                                | 3,079                              | 220                                | 34.3                               | 52.8                               | 2.9                                | 8.7                                | 1.0                                | 1.6                                | 0.1                                | 0.8                                | 0.1                                | 20.3                              | 1.78   | 21.5   | 1.5   |
|         | 87.9   | 88.7 | 3,366                              | 7,334                | 771                                | 2,461                              | 171                                | 27.2                               | 43.3                               | 2.6                                | 8.0                                | 0.9                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.42   | 18.9   | 2.4   |
|         | 88.7   | 89.4 | 5,758                              | 12,259               | 1,275                              | 4,012                              | 275                                | 42.2                               | 65.8                               | 3.9                                | 11.8                               | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 2.37   | 30.4   | 4.1   |
|         | 89.4   | 89.9 | 4,492                              | 9,655                | 1,012                              | 3,231                              | 226                                | 34.6                               | 51.5                               | 2.9                                | 7.8                                | 0.7                                | 1.1                                | 0.1                                | 0.5                                | 0.1                                | 15.2                              | 1.87   | 22.8   | 1.1   |
|         | 89.9   | 90.6 | 5,430                              | 10,233               | 993                                | 3,044                              | 224                                | 37.8                               | 60.5                               | 3.7                                | 10.6                               | 1.0                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 21.6                              | 2.01   | 26.8   | 3.8   |
|         | 90.6   | 91.0 | 7,189                              | 14,925               | 1,565                              | 4,876                              | 332                                | 51.1                               | 78.2                               | 4.3                                | 11.7                               | 1.1                                | 1.5                                | 0.1                                | 0.5                                | -0.1                               | 20.3                              | 2.91   | 30.6   | 1.1   |
|         | 91.0   | 91.8 | 3,905                              | 8,230                | 853                                | 2,718                              | 191                                | 29.0                               | 43.9                               | 2.6                                | 7.1                                | 0.7                                | 1.1                                | 0.1                                | 0.6                                | 0.1                                | 14.0                              | 1.60   | 16.6   | 1     |
|         | 91.8   | 92.5 | 4,492                              | 9,496                | 999                                | 3,184                              | 220                                | 34.3                               | 53.3                               | 2.9                                | 8.2                                | 0.8                                | 1.3                                | 0.1                                | 0.5                                | 0.1                                | 15.2                              | 1.85   | 20.8   | 0.8   |
|         | 92.5   | 93.3 | 3,460                              | 7,309                | 758                                | 2,379                              | 170                                | 27.4                               | 43.8                               | 2.5                                | 6.9                                | 0.7                                | 0.9                                | 0.1                                | 0.5                                | 0.1                                | 14.0                              | 1.42   | 17.4   | 0.6   |
|         | 93.3   | 94.1 | 3,917                              | 8,255                | 851                                | 2,694                              | 181                                | 28.8                               | 45.9                               | 2.6                                | 7.4                                | 0.7                                | 1.0                                | 0.1                                | 0.3                                | 0.1                                | 12.7                              | 1.60   | 17.4   | 1     |
|         | 94.1   | 95.1 | 7,142                              | 14,557               | 1,480                              | 4,537                              | 293                                | 45.7                               | 70.9                               | 4.2                                | 11.9                               | 1.2                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 2.82   | 26.5   | 1.1   |
|         | 95.1   | 95.9 | 4,715                              | 9,839                | 1,009                              | 3,184                              | 223                                | 35.7                               | 56.6                               | 3.4                                | 9.5                                | 1.0                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 1.91   | 27.1   | 3.3   |
|         | 95.9   | 96.2 | 3,554                              | 7,137                | 723                                | 2,210                              | 159                                | 25.2                               | 42.4                               | 2.4                                | 7.6                                | 0.9                                | 1.1                                | 0.1                                | 0.6                                | 0.1                                | 17.8                              | 1.39   | 18.2   | 0.7   |
|         | 96.2   | 97.2 | 3,624                              | 7,284                | 739                                | 2,263                              | 164                                | 27.6                               | 45.5                               | 3.6                                | 11.0                               | 1.1                                | 1.9                                | 0.1                                | 0.9                                | 0.1                                | 25.4                              | 1.42   | 30.7   | 1.6   |
|         | 97.2   | 97.9 | 4,832                              | 9,483                | 939                                | 2,869                              | 209                                | 35.1                               | 65.1                               | 5.8                                | 20.4                               | 2.2                                | 3.3                                | 0.3                                | 1.5                                | 0.2                                | 49.5                              | 1.85   | 49     | 2.8   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 97.9   | 98.4  | 4,152                              | 7,985                | 781                                | 2,327                              | 153                                | 25.5                               | 45.0                               | 3.3                                | 11.4                               | 1.3                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 30.5                              | 1.55   | 25.3   | 2.6   |
|         | 98.4   | 99.4  | 4,762                              | 9,324                | 910                                | 2,729                              | 174                                | 27.3                               | 44.1                               | 2.7                                | 8.2                                | 0.8                                | 1.3                                | 0.1                                | 0.5                                | 0.1                                | 17.8                              | 1.80   | 21.3   | 0.6   |
|         | 99.4   | 100.3 | 9,488                              | 17,689               | 1,788                              | 5,435                              | 386                                | 61.4                               | 104.1                              | 6.7                                | 19.1                               | 1.8                                | 3.0                                | 0.3                                | 0.9                                | 0.1                                | 35.6                              | 3.50   | 53.8   | 6     |
|         | 100.3  | 101.0 | 7,295                              | 13,082               | 1,293                              | 3,896                              | 267                                | 42.0                               | 71.2                               | 4.8                                | 11.9                               | 1.2                                | 1.7                                | 0.1                                | 0.6                                | -0.1                               | 20.3                              | 2.60   | 32.2   | 5.5   |
|         | 101.0  | 101.9 | 4,586                              | 8,402                | 819                                | 2,461                              | 164                                | 26.9                               | 45.3                               | 3.3                                | 9.9                                | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 24.1                              | 1.65   | 19.4   | 1.7   |
|         | 101.9  | 102.5 | 7,799                              | 14,065               | 1,389                              | 4,211                              | 276                                | 44.0                               | 77.5                               | 5.1                                | 16.1                               | 1.7                                | 2.6                                | 0.2                                | 0.8                                | 0.1                                | 33.0                              | 2.79   | 30.7   | 1.6   |
|         | 102.5  | 103.2 | 5,712                              | 10,589               | 1,084                              | 3,324                              | 226                                | 35.8                               | 59.4                               | 3.9                                | 10.3                               | 1.0                                | 1.8                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 2.11   | 23.2   | 2.1   |
|         | 103.2  | 103.6 | 3,366                              | 6,486                | 656                                | 2,024                              | 143                                | 22.2                               | 37.1                               | 2.4                                | 7.4                                | 0.9                                | 1.4                                | 0.2                                | 1.0                                | 0.2                                | 19.1                              | 1.28   | 15.4   | 1.9   |
|         | 103.6  | 104.6 | 6,861                              | 12,407               | 1,220                              | 3,686                              | 239                                | 38.0                               | 62.9                               | 4.1                                | 11.7                               | 1.3                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 2.46   | 27.6   | 4     |
|         | 104.6  | 105.6 | 15,950                             | 28,130               | 2,634                              | 7,570                              | 501                                | 83.7                               | 134.3                              | 8.2                                | 23.0                               | 2.3                                | 3.7                                | 0.3                                | 1.6                                | 0.2                                | 44.5                              | 5.51   | 65.5   | 2.3   |
|         | 105.6  | 106.6 | 12,842                             | 22,295               | 2,096                              | 6,065                              | 390                                | 61.5                               | 109.8                              | 7.1                                | 19.5                               | 2.0                                | 3.5                                | 0.3                                | 1.9                                | 0.2                                | 43.2                              | 4.39   | 49.8   | 0.9   |
|         | 106.6  | 107.4 | 18,823                             | 35,255               | 3,576                              | 10,673                             | 733                                | 114.4                              | 190.2                              | 11.3                               | 29.2                               | 2.7                                | 4.2                                | 0.3                                | 1.7                                | 0.1                                | 55.9                              | 6.95   | 82.1   | 1.2   |
|         | 107.4  | 108.2 | 24,746                             | 47,048               | 4,688                              | 14,113                             | 938                                | 149.4                              | 250.1                              | 15.3                               | 41.8                               | 3.9                                | 5.7                                | 0.5                                | 1.9                                | 0.3                                | 74.9                              | 9.21   | 123.5  | 2.8   |
|         | 108.2  | 108.9 | 16,654                             | 31,447               | 3,250                              | 9,390                              | 623                                | 94.6                               | 156.2                              | 9.1                                | 24.1                               | 2.4                                | 3.1                                | 0.3                                | 1.4                                | 0.2                                | 43.2                              | 6.17   | 77.4   | 1.6   |
|         | 108.9  | 109.5 | 10,203                             | 19,409               | 1,951                              | 5,914                              | 402                                | 61.0                               | 99.4                               | 5.6                                | 15.4                               | 1.5                                | 2.4                                | 0.2                                | 0.8                                | 0.2                                | 25.4                              | 3.81   | 45.2   | 1.1   |
|         | 109.5  | 110.5 | 18,706                             | 36,483               | 3,625                              | 10,976                             | 772                                | 124.5                              | 204.6                              | 12.1                               | 28.9                               | 2.7                                | 3.1                                | 0.2                                | 1.1                                | 0.1                                | 47.0                              | 7.10   | 91     | 3.3   |
|         | 110.5  | 111.4 | 6,439                              | 12,837               | 1,299                              | 4,001                              | 288                                | 46.3                               | 77.1                               | 4.7                                | 12.5                               | 1.3                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 2.50   | 36.4   | 4.1   |
|         | 111.4  | 111.9 | 6,028                              | 12,051               | 1,214                              | 3,744                              | 264                                | 42.8                               | 67.9                               | 4.0                                | 10.7                               | 1.0                                | 1.6                                | 0.1                                | 0.8                                | 0.1                                | 21.6                              | 2.35   | 35.9   | 16.7  |
|         | 111.9  | 112.9 | 1,759                              | 3,354                | 336                                | 1,010                              | 75                                 | 12.9                               | 22.8                               | 1.7                                | 5.9                                | 0.7                                | 1.4                                | 0.1                                | 0.8                                | 0.1                                | 15.2                              | 0.66   | 15.2   | 14.1  |
|         | 112.9  | 113.9 | 1,712                              | 3,341                | 338                                | 1,093                              | 106                                | 22.7                               | 48.3                               | 4.7                                | 20.0                               | 3.1                                | 6.8                                | 0.7                                | 4.6                                | 0.6                                | 85.1                              | 0.68   | 25.5   | 11.7  |
|         | 113.9  | 114.6 | 2,885                              | 5,430                | 538                                | 1,627                              | 135                                | 26.1                               | 50.6                               | 4.6                                | 18.7                               | 2.6                                | 5.2                                | 0.6                                | 3.3                                | 0.4                                | 68.6                              | 1.08   | 40.2   | 13.8  |
|         | 114.6  | 115.4 | 4,703                              | 9,029                | 877                                | 2,566                              | 176                                | 29.5                               | 49.9                               | 3.3                                | 8.8                                | 1.0                                | 1.7                                | 0.1                                | 0.9                                | 0.1                                | 20.3                              | 1.75   | 30.7   | 7.9   |
|         | 115.4  | 116.2 | 3,366                              | 6,363                | 627                                | 1,901                              | 137                                | 22.9                               | 38.2                               | 2.5                                | 7.8                                | 0.9                                | 1.4                                | 0.1                                | 0.8                                | 0.1                                | 17.8                              | 1.25   | 23.8   | 18.2  |
|         | 116.2  | 117.2 | 4,457                              | 8,009                | 761                                | 2,234                              | 157                                | 26.9                               | 41.8                               | 2.9                                | 8.3                                | 0.9                                | 1.5                                | 0.1                                | 0.7                                | 0.2                                | 20.3                              | 1.57   | 32.3   | 4.8   |
|         | 117.2  | 118.2 | 6,439                              | 10,798               | 969                                | 2,706                              | 170                                | 27.3                               | 45.5                               | 2.9                                | 8.2                                | 0.9                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 2.12   | 22.4   | 2     |
|         | 118.2  | 118.6 | 6,310                              | 10,491               | 939                                | 2,636                              | 164                                | 25.9                               | 42.3                               | 2.7                                | 7.4                                | 0.8                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 2.06   | 19     | 1.9   |
|         | 118.6  | 119.2 | 7,928                              | 13,205               | 1,191                              | 3,336                              | 201                                | 31.8                               | 53.4                               | 3.3                                | 9.5                                | 1.2                                | 1.7                                | 0.2                                | 1.3                                | 0.2                                | 25.4                              | 2.60   | 22.4   | 1.2   |
|         | 119.2  | 120.2 | 7,201                              | 12,051               | 1,090                              | 3,068                              | 195                                | 30.3                               | 49.0                               | 2.9                                | 8.5                                | 0.7                                | 1.0                                | 0.1                                | 0.5                                | 0.1                                | 16.5                              | 2.37   | 23.4   | 1.5   |
|         | 120.2  | 121.2 | 8,362                              | 14,311               | 1,311                              | 3,779                              | 237                                | 39.0                               | 61.8                               | 3.7                                | 10.2                               | 1.2                                | 1.5                                | 0.1                                | 0.9                                | 0.1                                | 22.9                              | 2.81   | 29.7   | 1.7   |
|         | 121.2  | 122.2 | 8,081                              | 13,758               | 1,263                              | 3,604                              | 223                                | 35.6                               | 57.4                               | 3.6                                | 8.3                                | 1.0                                | 1.4                                | 0.2                                | 0.6                                | 0.1                                | 19.1                              | 2.71   | 25     | 0.6   |
|         | 122.2  | 122.7 | 8,468                              | 15,048               | 1,438                              | 4,164                              | 273                                | 43.0                               | 70.1                               | 4.2                                | 10.3                               | 1.1                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 21.6                              | 2.95   | 36.9   | 1.6   |
|         | 122.7  | 123.0 | 7,119                              | 12,653               | 1,170                              | 3,394                              | 220                                | 34.3                               | 54.1                               | 3.4                                | 8.2                                | 0.9                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 2.47   | 24.5   | 0.6   |
|         | 123.0  | 123.6 | 7,389                              | 13,021               | 1,244                              | 3,628                              | 237                                | 36.4                               | 60.5                               | 3.4                                | 9.1                                | 0.9                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 2.56   | 26.7   | 0.6   |
|         | 123.6  | 124.6 | 8,761                              | 15,416               | 1,450                              | 4,257                              | 275                                | 42.6                               | 68.6                               | 4.0                                | 10.2                               | 1.1                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 22.9                              | 3.03   | 29     | 1.9   |
|         | 124.6  | 125.6 | 7,482                              | 12,591               | 1,132                              | 3,161                              | 198                                | 32.1                               | 53.5                               | 3.6                                | 11.0                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 27.9                              | 2.47   | 26.6   | 5     |
|         | 125.6  | 126.3 | 14,132                             | 24,015               | 2,247                              | 6,520                              | 442                                | 74.0                               | 122.2                              | 7.4                                | 20.0                               | 1.9                                | 3.1                                | 0.2                                | 1.0                                | 0.2                                | 41.9                              | 4.76   | 53.7   | 1.8   |
|         | 126.3  | 127.3 | 6,310                              | 11,535               | 1,101                              | 3,324                              | 259                                | 45.6                               | 81.3                               | 6.5                                | 26.4                               | 3.7                                | 8.1                                | 1.0                                | 6.6                                | 1.0                                | 105.4                             | 2.28   | 69.7   | 4.8   |
|         | 127.3  | 128.3 | 1,941                              | 3,550                | 361                                | 1,162                              | 133                                | 31.0                               | 68.4                               | 7.2                                | 30.9                               | 4.7                                | 11.2                               | 1.5                                | 9.3                                | 1.3                                | 137.2                             | 0.74   | 58     | 6.4   |
|         | 128.3  | 129.3 | 2,117                              | 4,361                | 458                                | 1,470                              | 141                                | 29.0                               | 58.1                               | 5.6                                | 23.2                               | 3.4                                | 7.7                                | 0.9                                | 5.5                                | 0.7                                | 96.5                              | 0.88   | 38.9   | 9.1   |
|         | 129.3  | 129.9 | 1,572                              | 2,838                | 292                                | 986                                | 109                                | 24.8                               | 53.3                               | 5.3                                | 22.8                               | 3.4                                | 7.8                                | 0.9                                | 5.1                                | 0.6                                | 99.1                              | 0.60   | 36.8   | 6.3   |
|         | 129.9  | 130.7 | 1,196                              | 2,131                | 213                                | 693                                | 80                                 | 18.8                               | 43.9                               | 5.1                                | 20.1                               | 2.8                                | 6.5                                | 0.7                                | 3.8                                | 0.3                                | 80.0                              | 0.45   | 26.9   | 9.2   |
|         | 130.7  | 131.3 | 2,522                              | 5,258                | 558                                | 1,825                              | 177                                | 36.2                               | 76.2                               | 7.5                                | 30.5                               | 4.3                                | 8.8                                | 0.8                                | 4.7                                | 0.7                                | 118.1                             | 1.06   | 54.8   | 8.7   |
|         | 131.3  | 132.2 | 2,862                              | 5,663                | 569                                | 1,767                              | 134                                | 21.8                               | 37.5                               | 2.3                                | 7.8                                | 0.9                                | 1.4                                | 0.2                                | 0.9                                | 0.2                                | 17.8                              | 1.11   | 29.4   | 2.1   |
|         | 132.2  | 132.8 | 2,475                              | 4,938                | 501                                | 1,540                              | 108                                | 17.8                               | 31.0                               | 2.0                                | 7.2                                | 0.9                                | 1.7                                | 0.2                                | 1.0                                | 0.1                                | 20.3                              | 0.96   | 15.1   | 1.3   |
|         | 132.8  | 133.2 | 3,026                              | 6,031                | 625                                | 1,995                              | 165                                | 30.2                               | 59.2                               | 4.8                                | 18.1                               | 2.6                                | 5.3                                | 0.6                                | 3.8                                | 0.5                                | 68.6                              | 1.20   | 46.7   | 4.4   |
|         | 133.2  | 133.7 | 1,959                              | 3,783                | 382                                | 1,213                              | 109                                | 23.3                               | 49.6                               | 5.0                                | 23.2                               | 3.7                                | 8.5                                | 1.0                                | 6.3                                | 0.9                                | 104.1                             | 0.77   | 42.2   | 5.2   |

| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 133.7  | 134.1 | 2,780                              | 5,380                | 540                                | 1,726                              | 157                                | 32.3                               | 68.2                               | 6.6                                | 30.1                               | 4.4                                | 9.7                                | 1.1                                | 5.9                                | 0.8                                | 123.2                             | 1.09   | 47.4   | 2.9   |
|                 | 134.1  | 135.1 | 13,604                             | 22,787               | 2,048                              | 5,785                              | 363                                | 57.8                               | 92.6                               | 5.5                                | 16.0                               | 1.6                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 31.8                              | 4.48   | 41     | 2.2   |
|                 | 135.1  | 135.9 | 19,703                             | 34,518               | 3,214                              | 9,308                              | 593                                | 96.6                               | 151.0                              | 8.8                                | 23.4                               | 2.2                                | 2.9                                | 0.3                                | 1.1                                | 0.2                                | 44.5                              | 6.77   | 72.3   | 4.2   |
|                 | 135.9  | 136.6 | 19,410                             | 35,869               | 3,419                              | 9,961                              | 632                                | 100.7                              | 152.7                              | 8.8                                | 24.0                               | 2.2                                | 3.0                                | 0.2                                | 1.0                                | 0.2                                | 43.2                              | 6.96   | 80     | 2.8   |
|                 | 136.6  | 137.6 | 12,901                             | 23,033               | 2,175                              | 6,380                              | 408                                | 67.7                               | 107.5                              | 6.8                                | 22.0                               | 2.3                                | 3.2                                | 0.3                                | 0.9                                | 0.1                                | 47.0                              | 4.52   | 57.8   | 2     |
|                 | 137.6  | 138.6 | 14,191                             | 23,954               | 2,175                              | 6,380                              | 411                                | 68.3                               | 109.8                              | 7.2                                | 19.6                               | 2.0                                | 2.9                                | 0.2                                | 1.1                                | 0.1                                | 39.4                              | 4.74   | 54.9   | 2     |
|                 | 138.6  | 139.3 | 6,134                              | 10,896               | 1,011                              | 3,033                              | 201                                | 32.2                               | 53.4                               | 3.6                                | 12.4                               | 1.3                                | 2.2                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 2.14   | 27.9   | 2.1   |
|                 | 139.3  | 140.2 | 21,462                             | 36,729               | 3,383                              | 10,183                             | 683                                | 115.3                              | 191.3                              | 13.4                               | 36.2                               | 3.3                                | 4.8                                | 0.4                                | 2.1                                | 0.2                                | 73.7                              | 7.29   | 116.5  | 3     |
|                 | 140.2  | 141.1 | 26,857                             | 44,959               | 4,047                              | 11,839                             | 780                                | 130.3                              | 219.0                              | 14.8                               | 39.0                               | 3.7                                | 5.3                                | 0.4                                | 2.3                                | 0.3                                | 81.3                              | 8.90   | 118    | 5.1   |
|                 | 141.1  | 141.9 | 16,185                             | 27,148               | 2,513                              | 7,687                              | 557                                | 101.3                              | 181.0                              | 15.2                               | 45.7                               | 4.3                                | 6.1                                | 0.5                                | 3.0                                | 0.4                                | 97.8                              | 5.45   | 193.5  | 8.2   |
|                 | 141.9  | 142.9 | 715                                | 1,247                | 120                                | 363                                | 32                                 | 6.4                                | 13.8                               | 1.6                                | 7.7                                | 1.3                                | 3.4                                | 0.4                                | 2.7                                | 0.4                                | 38.1                              | 0.26   | 30.9   | 3.7   |
|                 | 142.9  | 143.9 | 127                                | 241                  | 25                                 | 85                                 | 12                                 | 3.0                                | 7.6                                | 1.2                                | 6.3                                | 1.2                                | 3.2                                | 0.4                                | 2.5                                | 0.4                                | 34.3                              | 0.05   | 29.7   | 3     |
|                 | 143.9  | 144.9 | 118                                | 228                  | 24                                 | 80                                 | 11                                 | 3.1                                | 8.4                                | 1.1                                | 6.1                                | 1.0                                | 3.4                                | 0.5                                | 4.0                                | 0.6                                | 33.0                              | 0.05   | 19.2   | 2.9   |
|                 | 144.9  | 145.2 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    |
| <b>KGKDD004</b> | 0.0    | 3.0   | 6,415                              | 13,082               | 1,414                              | 4,362                              | 351                                | 59.8                               | 117.6                              | 10.9                               | 46.6                               | 6.8                                | 16.4                               | 2.0                                | 10.5                               | 1.4                                | 207.0                             | 2.61   | 116    | 12.2  |
|                 | 3.0    | 5.0   | 5,981                              | 11,572               | 1,162                              | 3,581                              | 257                                | 38.9                               | 66.7                               | 5.2                                | 17.0                               | 1.9                                | 3.0                                | 0.3                                | 1.4                                | 0.2                                | 44.5                              | 2.27   | 48.6   | 8.3   |
|                 | 5.0    | 6.0   | 5,747                              | 11,203               | 1,130                              | 3,476                              | 256                                | 40.5                               | 71.8                               | 5.8                                | 17.5                               | 1.6                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 35.6                              | 2.20   | 54.9   | 10.2  |
|                 | 6.0    | 7.0   | 6,685                              | 14,679               | 1,649                              | 5,412                              | 504                                | 90.3                               | 166.0                              | 13.2                               | 38.1                               | 3.3                                | 4.1                                | 0.3                                | 1.3                                | 0.2                                | 69.8                              | 2.93   | 176    | 4.5   |
|                 | 7.0    | 8.0   | 8,362                              | 17,382               | 1,855                              | 5,657                              | 392                                | 57.1                               | 92.3                               | 6.3                                | 18.3                               | 1.8                                | 3.0                                | 0.2                                | 1.0                                | 0.1                                | 40.6                              | 3.39   | 54.4   | 5.5   |
|                 | 8.0    | 8.9   | 4,527                              | 9,262                | 958                                | 3,079                              | 249                                | 41.6                               | 81.0                               | 6.7                                | 20.8                               | 1.7                                | 2.4                                | 0.2                                | 0.8                                | 0.1                                | 39.4                              | 1.83   | 89.9   | 3.6   |
|                 | 8.9    | 9.8   | 12,314                             | 22,848               | 2,271                              | 6,683                              | 429                                | 63.9                               | 107.5                              | 7.5                                | 21.4                               | 2.1                                | 2.6                                | 0.4                                | 0.9                                | 0.3                                | 40.6                              | 4.48   | 80.9   | 4.2   |
|                 | 9.8    | 10.3  | 4,867                              | 9,606                | 985                                | 3,068                              | 231                                | 38.2                               | 76.3                               | 7.4                                | 24.6                               | 2.4                                | 3.0                                | 0.2                                | 1.0                                | 0.1                                | 52.1                              | 1.90   | 69.4   | 3.9   |
|                 | 10.3   | 11.2  | 5,465                              | 10,675               | 1,086                              | 3,383                              | 256                                | 40.6                               | 77.2                               | 7.1                                | 22.0                               | 2.1                                | 2.7                                | 0.2                                | 0.9                                | 0.1                                | 45.7                              | 2.11   | 69.2   | 3.4   |
|                 | 11.2   | 12.0  | 7,213                              | 14,188               | 1,504                              | 4,537                              | 337                                | 52.2                               | 92.0                               | 7.6                                | 24.3                               | 2.3                                | 3.2                                | 0.2                                | 1.0                                | 0.1                                | 49.5                              | 2.80   | 82.6   | 4.3   |
|                 | 12.0   | 13.0  | 6,251                              | 12,530               | 1,335                              | 4,152                              | 322                                | 51.3                               | 86.5                               | 6.7                                | 21.6                               | 2.1                                | 3.0                                | 0.2                                | 1.0                                | 0.1                                | 44.5                              | 2.48   | 72.2   | 4.1   |
|                 | 13.0   | 14.0  | 7,881                              | 15,232               | 1,577                              | 4,794                              | 340                                | 50.3                               | 78.6                               | 5.2                                | 14.9                               | 1.3                                | 1.8                                | 0.1                                | 0.6                                | -0.1                               | 29.2                              | 3.00   | 53.1   | 3.5   |
|                 | 14.0   | 15.0  | 5,371                              | 10,798               | 1,133                              | 3,628                              | 322                                | 56.9                               | 108.7                              | 9.5                                | 32.0                               | 3.1                                | 4.8                                | 0.4                                | 2.1                                | 0.3                                | 73.7                              | 2.15   | 109.5  | 2     |
|                 | 15.0   | 15.7  | 6,228                              | 12,591               | 1,353                              | 4,082                              | 337                                | 56.5                               | 103.9                              | 8.4                                | 24.7                               | 2.2                                | 3.1                                | 0.2                                | 1.3                                | 0.1                                | 48.3                              | 2.48   | 104.5  | 2.1   |
|                 | 15.7   | 16.7  | 8,819                              | 17,443               | 1,818                              | 5,459                              | 458                                | 82.0                               | 155.0                              | 13.5                               | 43.7                               | 4.2                                | 6.0                                | 0.5                                | 2.3                                | 0.2                                | 97.8                              | 3.44   | 120    | 3.6   |
|                 | 16.7   | 17.7  | 4,609                              | 9,827                | 1,080                              | 3,628                              | 336                                | 57.1                               | 106.9                              | 8.5                                | 26.3                               | 2.6                                | 3.9                                | 0.3                                | 2.1                                | 0.3                                | 58.4                              | 1.97   | 88.3   | 2.4   |
|                 | 17.7   | 18.7  | 4,562                              | 9,950                | 1,106                              | 3,732                              | 342                                | 58.6                               | 107.3                              | 8.2                                | 25.3                               | 2.4                                | 3.7                                | 0.3                                | 1.7                                | 0.2                                | 57.2                              | 2.00   | 99.7   | 2.7   |
|                 | 18.7   | 19.3  | 2,310                              | 5,282                | 597                                | 2,065                              | 209                                | 41.6                               | 90.9                               | 7.7                                | 21.4                               | 1.8                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 40.6                              | 1.07   | 134.5  | 1.4   |
|                 | 19.3   | 20.3  | 6,685                              | 14,311               | 1,565                              | 4,946                              | 417                                | 68.7                               | 128.5                              | 10.4                               | 30.4                               | 2.9                                | 3.7                                | 0.3                                | 1.5                                | 0.2                                | 63.5                              | 2.82   | 124    | 2.6   |
|                 | 20.3   | 21.3  | 5,559                              | 12,530               | 1,456                              | 4,922                              | 470                                | 77.7                               | 138.3                              | 10.5                               | 31.1                               | 2.7                                | 3.9                                | 0.3                                | 1.4                                | 0.2                                | 64.8                              | 2.53   | 148.5  | 2.1   |
|                 | 21.3   | 22.0  | 5,090                              | 10,552               | 1,145                              | 3,814                              | 357                                | 58.7                               | 104.7                              | 7.4                                | 21.4                               | 1.7                                | 2.5                                | 0.2                                | 0.9                                | 0.1                                | 41.9                              | 2.12   | 120.5  | 1.1   |
|                 | 22.0   | 22.8  | 4,937                              | 11,510               | 1,347                              | 4,421                              | 411                                | 66.0                               | 112.3                              | 7.2                                | 17.6                               | 1.6                                | 2.1                                | 0.2                                | 0.6                                | -0.1                               | 27.9                              | 2.29   | 96.2   | 0.8   |
|                 | 22.8   | 23.8  | 965                                | 2,432                | 283                                | 1,001                              | 103                                | 16.9                               | 29.1                               | 1.6                                | 4.4                                | 0.3                                | 0.5                                | -0.1                               | 0.2                                | -0.1                               | 7.6                               | 0.48   | 47.2   | 0.5   |
|                 | 23.8   | 24.4  | 4,281                              | 9,164                | 1,015                              | 3,359                              | 286                                | 46.9                               | 83.1                               | 5.6                                | 14.5                               | 1.3                                | 1.7                                | 0.1                                | 0.5                                | 0.1                                | 26.7                              | 1.83   | 66.5   | 1.1   |
|                 | 24.4   | 25.4  | 3,847                              | 8,673                | 1,000                              | 3,511                              | 357                                | 65.0                               | 127.4                              | 9.6                                | 25.4                               | 2.1                                | 2.9                                | 0.2                                | 1.0                                | 0.1                                | 44.5                              | 1.77   | 174.5  | 1.3   |
|                 | 25.4   | 26.4  | 2,697                              | 6,203                | 727                                | 2,636                              | 291                                | 53.3                               | 97.2                               | 5.6                                | 13.7                               | 1.0                                | 1.4                                | 0.1                                | 0.3                                | 0.1                                | 20.3                              | 1.27   | 186    | 0.8   |
|                 | 26.4   | 27.2  | 2,029                              | 4,656                | 538                                | 1,930                              | 209                                | 38.9                               | 76.8                               | 6.0                                | 17.2                               | 1.6                                | 2.4                                | 0.2                                | 1.0                                | 0.2                                | 34.3                              | 0.95   | 92.4   | 0.8   |
|                 | 27.2   | 28.0  | 745                                | 1,861                | 225                                | 846                                | 107                                | 20.4                               | 42.9                               | 3.6                                | 12.2                               | 1.3                                | 2.2                                | 0.3                                | 1.4                                | 0.2                                | 29.2                              | 0.39   | 49.6   | 1     |
|                 | 28.0   | 29.0  | 2,152                              | 4,766                | 536                                | 1,890                              | 197                                | 36.7                               | 72.8                               | 5.5                                | 15.4                               | 1.4                                | 1.9                                | 0.2                                | 0.7                                | 0.1                                | 30.5                              | 0.97   | 120.5  | 1.1   |
|                 | 29.0   | 30.0  | 6,486                              | 13,144               | 1,456                              | 4,654                              | 373                                | 58.1                               | 96.6                               | 6.9                                | 21.4                               | 2.1                                | 3.2                                | 0.2                                | 1.0                                | 0.1                                | 48.3                              | 2.64   | 75     | 4.2   |
|                 | 30.0   | 31.0  | 8,245                              | 16,092               | 1,685                              | 5,074                              | 346                                | 48.8                               | 78.0                               | 5.4                                | 15.8                               | 1.6                                | 2.5                                | 0.2                                | 1.0                                | 0.1                                | 38.1                              | 3.16   | 43.6   | 2.7   |
|                 | 31.0   | 32.0  | 7,600                              | 14,925               | 1,553                              | 4,712                              | 342                                | 52.8                               | 94.4                               | 8.0                                | 26.3                               | 2.7                                | 4.0                                | 0.3                                | 1.5                                | 0.2                                | 64.8                              | 2.94   | 93.9   | 4     |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 32.0   | 33.0 | 5,465                              | 10,466               | 1,051                              | 3,196                              | 210                                | 31.3                               | 54.3                               | 4.9                                | 18.0                               | 1.9                                | 2.7                                | 0.2                                | 1.3                                | 0.1                                | 44.5                              | 2.05   | 45.7   | 5.1   |
|         | 33.0   | 34.0 | 4,773                              | 9,299                | 944                                | 2,916                              | 205                                | 31.2                               | 53.9                               | 4.5                                | 15.7                               | 1.7                                | 2.6                                | 0.2                                | 1.3                                | 0.1                                | 40.6                              | 1.83   | 49.8   | 4.4   |
|         | 34.0   | 35.0 | 9,242                              | 17,812               | 1,818                              | 5,319                              | 359                                | 53.7                               | 94.2                               | 8.7                                | 31.5                               | 3.1                                | 4.5                                | 0.3                                | 1.4                                | 0.2                                | 74.9                              | 3.48   | 87     | 5.5   |
|         | 35.0   | 36.9 | 7,236                              | 14,311               | 1,510                              | 4,537                              | 334                                | 51.4                               | 97.5                               | 9.4                                | 32.8                               | 3.3                                | 4.7                                | 0.3                                | 1.7                                | 0.1                                | 78.7                              | 2.82   | 86.7   | 3.9   |
|         | 36.9   | 37.3 | 5,489                              | 10,650               | 1,057                              | 3,184                              | 202                                | 33.2                               | 58.2                               | 4.5                                | 15.4                               | 1.5                                | 2.4                                | 0.3                                | 0.7                                | 0.2                                | 34.3                              | 2.07   | 46.8   | 2.3   |
|         | 37.3   | 38.2 | 6,063                              | 11,670               | 1,148                              | 3,429                              | 212                                | 35.4                               | 68.1                               | 7.1                                | 25.7                               | 2.4                                | 3.4                                | 0.2                                | 0.9                                | 0.1                                | 58.4                              | 2.27   | 63.1   | 2.9   |
|         | 38.2   | 38.7 | 2,580                              | 4,963                | 494                                | 1,499                              | 95                                 | 16.1                               | 28.4                               | 2.5                                | 9.8                                | 1.0                                | 1.8                                | 0.2                                | 0.9                                | 0.2                                | 27.9                              | 0.97   | 24.8   | 10.3  |
|         | 38.7   | 39.4 | 5,970                              | 11,965               | 1,220                              | 3,732                              | 235                                | 37.8                               | 63.4                               | 5.5                                | 16.1                               | 1.7                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 38.1                              | 2.33   | 48.6   | 4     |
|         | 39.4   | 40.2 | 6,087                              | 12,161               | 1,232                              | 3,732                              | 231                                | 37.1                               | 59.9                               | 4.5                                | 13.8                               | 1.4                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 31.8                              | 2.36   | 38.5   | 6.2   |
|         | 40.2   | 41.2 | 10,532                             | 19,654               | 1,957                              | 5,529                              | 341                                | 55.8                               | 100.9                              | 9.2                                | 32.8                               | 3.3                                | 4.7                                | 0.3                                | 1.6                                | 0.2                                | 77.5                              | 3.83   | 82.5   | 3.2   |
|         | 41.2   | 41.9 | 4,996                              | 10,527               | 1,144                              | 3,791                              | 291                                | 52.2                               | 95.7                               | 8.9                                | 32.8                               | 3.1                                | 4.6                                | 0.3                                | 1.3                                | 0.1                                | 73.7                              | 2.10   | 88.7   | 2.8   |
|         | 41.9   | 42.8 | 7,565                              | 14,495               | 1,468                              | 4,234                              | 253                                | 42.2                               | 71.5                               | 6.1                                | 18.0                               | 1.7                                | 2.7                                | 0.2                                | 0.8                                | 0.1                                | 41.9                              | 2.82   | 54.9   | 3     |
|         | 42.8   | 43.8 | 11,845                             | 22,234               | 2,235                              | 6,357                              | 377                                | 61.8                               | 106.0                              | 8.8                                | 27.5                               | 2.7                                | 4.1                                | 0.3                                | 1.1                                | 0.1                                | 59.7                              | 4.33   | 73     | 2.9   |
|         | 43.8   | 44.8 | 5,078                              | 11,719               | 1,335                              | 4,666                              | 405                                | 71.3                               | 118.1                              | 7.5                                | 20.3                               | 2.0                                | 2.9                                | 0.2                                | 1.0                                | 0.1                                | 43.2                              | 2.35   | 98.8   | 2     |
|         | 44.8   | 45.8 | 6,544                              | 12,898               | 1,287                              | 3,896                              | 249                                | 40.4                               | 69.9                               | 5.2                                | 16.2                               | 1.6                                | 2.5                                | 0.2                                | 0.7                                | 0.1                                | 36.8                              | 2.50   | 50.2   | 4.9   |
|         | 45.8   | 46.8 | 5,371                              | 10,159               | 994                                | 2,974                              | 187                                | 31.6                               | 56.3                               | 4.6                                | 14.8                               | 1.4                                | 2.1                                | 0.2                                | 0.7                                | 0.1                                | 33.0                              | 1.98   | 51.6   | 1.5   |
|         | 46.8   | 47.6 | 5,911                              | 11,031               | 1,079                              | 3,243                              | 217                                | 38.3                               | 69.9                               | 6.2                                | 18.5                               | 1.8                                | 2.4                                | 0.2                                | 0.9                                | 0.2                                | 41.9                              | 2.17   | 70.1   | 1     |
|         | 47.6   | 48.3 | 4,527                              | 8,783                | 875                                | 2,613                              | 158                                | 24.4                               | 39.1                               | 3.0                                | 10.3                               | 1.1                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 1.71   | 22.8   | 8.5   |
|         | 48.3   | 49.3 | 4,433                              | 8,869                | 912                                | 2,858                              | 195                                | 32.2                               | 55.6                               | 5.1                                | 16.9                               | 1.7                                | 2.9                                | 0.2                                | 1.0                                | 0.1                                | 39.4                              | 1.74   | 47.6   | 4.2   |
|         | 49.3   | 50.0 | 5,008                              | 9,827                | 1,002                              | 3,126                              | 209                                | 34.9                               | 63.2                               | 5.8                                | 19.9                               | 2.0                                | 2.7                                | 0.3                                | 1.0                                | 0.1                                | 44.5                              | 1.93   | 60.7   | 5.1   |
|         | 50.0   | 51.0 | 6,779                              | 13,574               | 1,408                              | 4,199                              | 252                                | 39.1                               | 63.4                               | 4.7                                | 15.5                               | 1.6                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 35.6                              | 2.64   | 44.6   | 5     |
|         | 51.0   | 52.0 | 6,427                              | 12,468               | 1,238                              | 3,756                              | 229                                | 36.6                               | 60.4                               | 5.0                                | 16.6                               | 1.7                                | 2.7                                | 0.2                                | 0.9                                | 0.1                                | 39.4                              | 2.43   | 44.2   | 3.3   |
|         | 52.0   | 53.0 | 8,491                              | 16,215               | 1,631                              | 4,712                              | 282                                | 45.6                               | 78.2                               | 6.4                                | 20.0                               | 1.9                                | 2.9                                | 0.2                                | 0.9                                | 0.1                                | 43.2                              | 3.15   | 56.6   | 5.7   |
|         | 53.0   | 54.0 | 5,219                              | 9,962                | 996                                | 3,021                              | 195                                | 33.6                               | 59.6                               | 5.3                                | 16.9                               | 1.8                                | 2.4                                | 0.2                                | 1.0                                | 0.2                                | 39.4                              | 1.96   | 60.1   | 4.7   |
|         | 54.0   | 55.0 | 6,920                              | 13,451               | 1,359                              | 4,082                              | 260                                | 44.0                               | 85.3                               | 8.0                                | 27.3                               | 2.4                                | 3.4                                | 0.2                                | 1.3                                | 0.1                                | 57.2                              | 2.63   | 85.6   | 2.7   |
|         | 55.0   | 56.0 | 5,477                              | 10,884               | 1,113                              | 3,464                              | 247                                | 44.6                               | 89.8                               | 9.0                                | 30.1                               | 2.6                                | 3.4                                | 0.2                                | 1.0                                | 0.1                                | 61.0                              | 2.14   | 97.8   | 2     |
|         | 56.0   | 57.0 | 9,758                              | 17,505               | 1,728                              | 4,946                              | 313                                | 53.4                               | 100.5                              | 9.8                                | 33.3                               | 3.1                                | 4.2                                | 0.3                                | 1.3                                | 0.2                                | 71.1                              | 3.45   | 94.4   | 2.3   |
|         | 57.0   | 57.9 | 6,216                              | 12,591               | 1,341                              | 4,152                              | 304                                | 53.5                               | 95.8                               | 7.4                                | 22.8                               | 2.2                                | 3.1                                | 0.3                                | 1.0                                | 0.1                                | 52.1                              | 2.48   | 87.8   | 2.4   |
|         | 57.9   | 58.9 | 9,347                              | 17,812               | 1,818                              | 5,342                              | 382                                | 68.7                               | 133.7                              | 11.9                               | 38.8                               | 4.0                                | 5.6                                | 0.4                                | 1.9                                | 0.2                                | 91.4                              | 3.51   | 121.5  | 2.6   |
|         | 58.9   | 59.9 | 6,638                              | 13,144               | 1,341                              | 4,152                              | 289                                | 50.5                               | 87.1                               | 6.3                                | 18.9                               | 1.8                                | 2.6                                | 0.2                                | 0.8                                | 0.1                                | 41.9                              | 2.58   | 65.5   | 2.9   |
|         | 59.9   | 60.9 | 6,826                              | 14,065               | 1,534                              | 4,689                              | 361                                | 64.5                               | 115.8                              | 9.0                                | 27.8                               | 2.6                                | 3.7                                | 0.2                                | 1.1                                | 0.1                                | 53.3                              | 2.78   | 95.3   | 2.2   |
|         | 60.9   | 61.9 | 8,268                              | 17,996               | 1,981                              | 6,252                              | 493                                | 90.4                               | 154.5                              | 10.3                               | 27.5                               | 2.5                                | 3.3                                | 0.2                                | 0.7                                | 0.1                                | 48.3                              | 3.53   | 123.5  | 1     |
|         | 61.9   | 62.4 | 13,370                             | 28,499               | 3,069                              | 10,136                             | 795                                | 148.2                              | 273.2                              | 21.3                               | 64.2                               | 6.1                                | 8.2                                | 0.6                                | 2.5                                | 0.4                                | 133.3                             | 5.65   | 264    | 1.4   |
|         | 62.4   | 65.4 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    |
|         | 65.4   | 65.9 | 14,484                             | 30,833               | 3,395                              | 10,929                             | 767                                | 126.8                              | 212.1                              | 15.3                               | 45.7                               | 4.3                                | 6.4                                | 0.5                                | 2.1                                | 0.2                                | 91.4                              | 6.09   | 155    | 5.5   |
|         | 65.9   | 66.9 | 7,084                              | 13,942               | 1,414                              | 4,211                              | 292                                | 44.9                               | 77.9                               | 6.2                                | 19.3                               | 1.8                                | 2.5                                | 0.2                                | 0.8                                | 0.1                                | 39.4                              | 2.71   | 57.3   | 6.4   |
|         | 66.9   | 67.9 | 7,189                              | 14,741               | 1,553                              | 4,806                              | 372                                | 54.5                               | 88.9                               | 6.1                                | 17.9                               | 1.6                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 33.0                              | 2.89   | 73.4   | 5.1   |
|         | 67.9   | 68.4 | 22,459                             | 38,449               | 3,576                              | 10,521                             | 676                                | 100.6                              | 160.8                              | 10.8                               | 30.5                               | 2.9                                | 4.4                                | 0.3                                | 1.5                                | 0.2                                | 61.0                              | 7.61   | 93.9   | 2.7   |
|         | 68.4   | 68.8 | 5,160                              | 10,110               | 1,004                              | 3,103                              | 220                                | 32.4                               | 52.7                               | 3.7                                | 11.5                               | 1.3                                | 1.9                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 1.97   | 29     | 6.7   |
|         | 68.8   | 69.4 | 5,723                              | 11,780               | 1,195                              | 3,744                              | 264                                | 39.5                               | 69.2                               | 6.3                                | 30.1                               | 5.0                                | 11.8                               | 1.5                                | 8.8                                | 1.2                                | 147.3                             | 2.30   | 49.4   | 12.4  |
|         | 69.4   | 69.9 | 7,729                              | 15,969               | 1,661                              | 5,027                              | 329                                | 47.6                               | 75.2                               | 4.8                                | 13.0                               | 1.4                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 29.2                              | 3.09   | 38.1   | 7.2   |
|         | 69.9   | 70.9 | 7,365                              | 14,864               | 1,547                              | 4,596                              | 312                                | 45.9                               | 75.5                               | 5.1                                | 14.5                               | 1.6                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 30.5                              | 2.89   | 45.5   | 5.9   |
|         | 70.9   | 71.5 | 7,283                              | 14,065               | 1,426                              | 4,141                              | 281                                | 42.3                               | 71.0                               | 5.0                                | 14.5                               | 1.4                                | 2.2                                | 0.2                                | 0.6                                | 0.1                                | 29.2                              | 2.74   | 50.2   | 7.2   |
|         | 71.5   | 72.3 | 14,250                             | 25,919               | 2,465                              | 7,138                              | 444                                | 68.2                               | 113.5                              | 7.6                                | 20.9                               | 1.9                                | 3.2                                | 0.3                                | 1.4                                | 0.1                                | 40.6                              | 5.05   | 65.8   | 3.7   |
|         | 72.3   | 72.6 | 5,348                              | 10,933               | 1,114                              | 3,499                              | 237                                | 33.9                               | 52.3                               | 3.2                                | 8.5                                | 0.9                                | 1.5                                | 0.1                                | 0.8                                | 0.1                                | 19.1                              | 2.13   | 27.5   | 8     |
|         | 72.6   | 73.1 | 7,307                              | 14,741               | 1,516                              | 4,502                              | 318                                | 48.5                               | 81.4                               | 5.6                                | 16.6                               | 1.6                                | 2.9                                | 0.2                                | 0.9                                | 0.1                                | 35.6                              | 2.86   | 55.5   | 3.7   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 73.1   | 73.4  | 4,996                              | 10,073               | 1,014                              | 3,138                              | 213                                | 31.2                               | 50.1                               | 3.2                                | 9.1                                | 0.9                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.95   | 29.2   | 7.7   |
|         | 73.4   | 74.4  | 6,978                              | 13,758               | 1,347                              | 4,036                              | 278                                | 41.0                               | 67.3                               | 4.5                                | 12.7                               | 1.4                                | 2.5                                | 0.3                                | 1.4                                | 0.2                                | 30.5                              | 2.66   | 30.4   | 3.6   |
|         | 74.4   | 75.3  | 7,471                              | 15,539               | 1,619                              | 4,957                              | 349                                | 49.9                               | 81.4                               | 5.1                                | 15.4                               | 1.6                                | 2.7                                | 0.3                                | 1.4                                | 0.2                                | 34.3                              | 3.01   | 41.4   | 4.3   |
|         | 75.3   | 75.9  | 4,375                              | 8,734                | 860                                | 2,694                              | 198                                | 30.7                               | 51.9                               | 3.9                                | 11.1                               | 1.1                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 27.9                              | 1.70   | 44.4   | 6     |
|         | 75.9   | 76.6  | 9,136                              | 18,610               | 1,933                              | 5,715                              | 387                                | 56.4                               | 92.4                               | 6.4                                | 18.7                               | 1.8                                | 2.9                                | 0.3                                | 1.3                                | 0.1                                | 40.6                              | 3.60   | 55.7   | 1.7   |
|         | 76.6   | 77.6  | 11,106                             | 21,374               | 2,096                              | 6,065                              | 413                                | 62.1                               | 100.3                              | 6.7                                | 19.1                               | 1.9                                | 3.3                                | 0.3                                | 1.6                                | 0.2                                | 40.6                              | 4.13   | 49.1   | 1.5   |
|         | 77.6   | 78.4  | 10,203                             | 19,286               | 1,885                              | 5,424                              | 356                                | 52.5                               | 83.7                               | 5.4                                | 14.6                               | 1.4                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 29.2                              | 3.73   | 42.3   | 2     |
|         | 78.4   | 79.1  | 12,666                             | 24,138               | 2,374                              | 6,812                              | 448                                | 66.4                               | 105.2                              | 6.6                                | 19.6                               | 1.9                                | 3.3                                | 0.3                                | 1.4                                | 0.2                                | 43.2                              | 4.67   | 55.5   | 1.8   |
|         | 79.1   | 80.1  | 6,685                              | 13,144               | 1,275                              | 3,907                              | 270                                | 40.1                               | 63.9                               | 4.1                                | 12.1                               | 1.3                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 2.54   | 28.5   | 1.4   |
|         | 80.1   | 80.9  | 8,503                              | 16,768               | 1,704                              | 5,062                              | 350                                | 51.3                               | 85.6                               | 5.9                                | 16.0                               | 1.5                                | 2.3                                | 0.2                                | 1.0                                | 0.2                                | 33.0                              | 3.26   | 53.1   | 0.9   |
|         | 80.9   | 81.9  | 9,406                              | 18,856               | 1,921                              | 5,669                              | 379                                | 55.4                               | 85.3                               | 5.3                                | 14.5                               | 1.5                                | 2.3                                | 0.2                                | 1.0                                | 0.2                                | 29.2                              | 3.64   | 39.3   | 3     |
|         | 81.9   | 82.9  | 12,197                             | 23,524               | 2,398                              | 7,162                              | 486                                | 71.4                               | 114.7                              | 7.0                                | 18.4                               | 1.8                                | 2.7                                | 0.2                                | 1.1                                | 0.2                                | 38.1                              | 4.60   | 58.8   | 1.6   |
|         | 82.9   | 83.9  | 7,025                              | 14,249               | 1,480                              | 4,514                              | 321                                | 48.5                               | 81.0                               | 5.3                                | 14.5                               | 1.3                                | 1.9                                | 0.2                                | 0.6                                | 0.1                                | 26.7                              | 2.78   | 63.6   | 1.8   |
|         | 83.9   | 84.4  | 6,286                              | 13,390               | 1,420                              | 4,327                              | 293                                | 42.6                               | 68.8                               | 4.5                                | 12.9                               | 1.3                                | 1.9                                | 0.2                                | 0.7                                | 0.1                                | 24.1                              | 2.59   | 44.2   | 1.7   |
|         | 84.4   | 85.1  | 9,230                              | 18,795               | 1,951                              | 5,867                              | 395                                | 54.5                               | 83.6                               | 4.9                                | 13.2                               | 1.2                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 3.64   | 35.2   | 0.8   |
|         | 85.1   | 85.6  | 942                                | 2,217                | 234                                | 776                                | 57                                 | 8.9                                | 15.9                               | 1.4                                | 4.4                                | 0.5                                | 0.9                                | 0.1                                | 0.8                                | 0.1                                | 11.4                              | 0.43   | 13.2   | 1     |
|         | 85.6   | 86.6  | 9,031                              | 18,426               | 1,891                              | 5,785                              | 413                                | 60.9                               | 99.2                               | 6.7                                | 17.0                               | 1.8                                | 2.7                                | 0.3                                | 1.1                                | 0.2                                | 34.3                              | 3.58   | 51.4   | 1.5   |
|         | 86.6   | 87.6  | 10,672                             | 20,760               | 2,102                              | 6,217                              | 465                                | 76.9                               | 137.7                              | 10.5                               | 30.4                               | 2.9                                | 4.2                                | 0.5                                | 1.7                                | 0.3                                | 58.4                              | 4.05   | 99.8   | 1.1   |
|         | 87.6   | 88.6  | 10,227                             | 20,944               | 2,108                              | 6,555                              | 468                                | 77.8                               | 127.4                              | 8.0                                | 22.5                               | 2.3                                | 3.3                                | 0.3                                | 1.1                                | 0.2                                | 45.7                              | 4.06   | 67.4   | 2.9   |
|         | 88.6   | 89.2  | 6,802                              | 13,820               | 1,389                              | 4,246                              | 302                                | 48.5                               | 78.5                               | 4.8                                | 12.6                               | 1.3                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 2.67   | 35.5   | 3.6   |
|         | 89.2   | 89.8  | 18,941                             | 36,361               | 3,576                              | 10,509                             | 683                                | 108.0                              | 169.4                              | 10.0                               | 25.1                               | 2.4                                | 3.4                                | 0.2                                | 1.0                                | 0.1                                | 44.5                              | 7.04   | 82.1   | 1.7   |
|         | 89.8   | 90.8  | 14,425                             | 24,138               | 2,175                              | 6,065                              | 391                                | 65.9                               | 116.4                              | 8.3                                | 25.1                               | 2.7                                | 4.0                                | 0.4                                | 1.7                                | 0.2                                | 61.0                              | 4.75   | 58.8   | 1.5   |
|         | 90.8   | 91.8  | 8,315                              | 15,601               | 1,492                              | 4,409                              | 291                                | 47.8                               | 79.5                               | 5.1                                | 14.5                               | 1.4                                | 2.3                                | 0.2                                | 0.9                                | 0.2                                | 31.8                              | 3.03   | 36.6   | 3.4   |
|         | 91.8   | 92.8  | 8,374                              | 16,215               | 1,577                              | 4,736                              | 333                                | 57.0                               | 94.7                               | 6.3                                | 18.6                               | 1.9                                | 3.2                                | 0.3                                | 1.7                                | 0.2                                | 47.0                              | 3.15   | 56     | 2.2   |
|         | 92.8   | 93.6  | 8,210                              | 16,461               | 1,631                              | 4,899                              | 318                                | 51.2                               | 79.3                               | 4.7                                | 11.8                               | 1.2                                | 2.3                                | 0.2                                | 1.1                                | 0.1                                | 29.2                              | 3.17   | 33.7   | 2.7   |
|         | 93.6   | 94.2  | 11,353                             | 22,787               | 2,265                              | 6,777                              | 452                                | 74.1                               | 119.3                              | 7.4                                | 18.8                               | 1.8                                | 2.9                                | 0.2                                | 1.1                                | 0.1                                | 36.8                              | 4.39   | 52.5   | 2.2   |
|         | 94.2   | 95.2  | 7,095                              | 14,004               | 1,377                              | 4,176                              | 275                                | 43.8                               | 69.0                               | 4.1                                | 11.1                               | 1.1                                | 1.5                                | 0.2                                | 1.0                                | 0.1                                | 22.9                              | 2.71   | 28.8   | 5.2   |
|         | 95.2   | 96.0  | 8,350                              | 17,136               | 1,716                              | 5,202                              | 346                                | 54.3                               | 85.3                               | 4.9                                | 13.2                               | 1.5                                | 2.4                                | 0.2                                | 1.3                                | 0.1                                | 29.2                              | 3.29   | 37.9   | 2.2   |
|         | 96.0   | 97.0  | 5,559                              | 10,970               | 1,091                              | 3,278                              | 222                                | 35.4                               | 55.1                               | 3.5                                | 9.5                                | 0.9                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 2.12   | 21.3   | 3     |
|         | 97.0   | 97.5  | 11,177                             | 21,988               | 2,157                              | 6,415                              | 419                                | 67.0                               | 105.9                              | 6.1                                | 15.0                               | 1.4                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 4.24   | 48.8   | 13.5  |
|         | 97.5   | 98.1  | 10,977                             | 22,173               | 2,211                              | 6,730                              | 465                                | 74.0                               | 118.1                              | 6.8                                | 17.7                               | 1.7                                | 2.5                                | 0.2                                | 1.3                                | 0.1                                | 34.3                              | 4.28   | 55.5   | 10.6  |
|         | 98.1   | 98.6  | 3,730                              | 7,641                | 787                                | 2,461                              | 181                                | 28.5                               | 47.4                               | 2.8                                | 7.7                                | 0.8                                | 1.4                                | 0.2                                | 0.7                                | 0.1                                | 16.5                              | 1.49   | 27.2   | 20.2  |
|         | 98.6   | 99.3  | 2,381                              | 5,184                | 546                                | 1,750                              | 140                                | 23.7                               | 40.9                               | 2.7                                | 8.7                                | 1.0                                | 1.9                                | 0.2                                | 1.4                                | 0.2                                | 22.9                              | 1.01   | 31.7   | 20.7  |
|         | 99.3   | 100.0 | 4,891                              | 10,331               | 1,079                              | 3,394                              | 247                                | 38.4                               | 60.4                               | 3.5                                | 9.5                                | 0.9                                | 1.6                                | 0.2                                | 0.7                                | 0.1                                | 19.1                              | 2.01   | 26.2   | 6.9   |
|         | 100.0  | 100.9 | 7,787                              | 17,443               | 1,885                              | 6,042                              | 457                                | 73.8                               | 122.2                              | 7.7                                | 19.4                               | 1.7                                | 2.4                                | 0.2                                | 1.0                                | 0.1                                | 34.3                              | 3.39   | 84.3   | 1.9   |
|         | 100.9  | 101.9 | 2,909                              | 6,547                | 698                                | 2,286                              | 182                                | 32.1                               | 59.4                               | 4.7                                | 13.4                               | 1.4                                | 1.8                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 1.28   | 67.3   | 1.6   |
|         | 101.9  | 102.2 | 10,966                             | 21,866               | 2,187                              | 6,625                              | 472                                | 78.3                               | 131.4                              | 8.9                                | 24.0                               | 2.2                                | 3.9                                | 0.3                                | 1.5                                | 0.2                                | 50.8                              | 4.24   | 91.6   | 2.9   |
|         | 102.2  | 102.7 | 7,565                              | 15,048               | 1,522                              | 4,724                              | 358                                | 61.8                               | 113.8                              | 8.5                                | 23.2                               | 2.4                                | 3.9                                | 0.4                                | 2.1                                | 0.2                                | 58.4                              | 2.95   | 132.5  | 3.1   |
|         | 102.7  | 103.2 | 11,060                             | 20,821               | 2,012                              | 5,937                              | 401                                | 65.7                               | 112.7                              | 7.7                                | 22.0                               | 2.0                                | 2.9                                | 0.3                                | 1.5                                | 0.2                                | 45.7                              | 4.05   | 83     | 9.8   |
|         | 103.2  | 103.7 | 15,540                             | 28,745               | 2,743                              | 8,002                              | 520                                | 84.5                               | 138.3                              | 8.3                                | 22.3                               | 2.2                                | 3.3                                | 0.3                                | 1.6                                | 0.2                                | 45.7                              | 5.59   | 81.8   | 2.3   |
|         | 103.7  | 104.4 | 7,635                              | 14,864               | 1,480                              | 4,491                              | 312                                | 49.2                               | 80.1                               | 5.2                                | 13.8                               | 1.5                                | 2.6                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 2.90   | 42.4   | 7.1   |
|         | 104.4  | 105.5 | 14,132                             | 29,727               | 3,105                              | 9,728                              | 703                                | 116.4                              | 195.9                              | 12.7                               | 34.4                               | 3.2                                | 4.5                                | 0.4                                | 1.6                                | 0.2                                | 64.8                              | 5.78   | 112    | 7.3   |
|         | 105.5  | 106.3 | 4,445                              | 9,029                | 912                                | 2,834                              | 207                                | 36.0                               | 66.6                               | 5.3                                | 17.3                               | 2.1                                | 4.0                                | 0.5                                | 2.6                                | 0.3                                | 49.5                              | 1.76   | 32.2   | 7.4   |
|         | 106.3  | 107.0 | 5,348                              | 11,043               | 1,132                              | 3,499                              | 245                                | 41.7                               | 66.7                               | 4.8                                | 14.0                               | 1.6                                | 3.1                                | 0.3                                | 1.8                                | 0.2                                | 38.1                              | 2.14   | 34     | 11.6  |
|         | 107.0  | 107.5 | 14,836                             | 30,341               | 3,105                              | 9,623                              | 706                                | 117.5                              | 195.9                              | 12.9                               | 36.2                               | 3.7                                | 6.5                                | 0.6                                | 3.1                                | 0.4                                | 83.8                              | 5.91   | 98.7   | 4.9   |
|         | 107.5  | 108.1 | 7,248                              | 14,434               | 1,426                              | 4,362                              | 298                                | 47.4                               | 77.5                               | 4.6                                | 12.1                               | 1.3                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 2.79   | 38.8   | 8.7   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 108.1  | 108.9 | 6,075                              | 12,653               | 1,335                              | 4,281                              | 339                                | 56.0                               | 93.9                               | 5.9                                | 16.0                               | 1.5                                | 2.4                                | 0.2                                | 1.1                                | 0.1                                | 31.8                              | 2.49   | 54.6   | 9.6   |
|         | 108.9  | 109.9 | 5,371                              | 11,080               | 1,151                              | 3,651                              | 277                                | 45.2                               | 74.6                               | 4.5                                | 12.4                               | 1.3                                | 1.9                                | 0.2                                | 0.9                                | 0.2                                | 25.4                              | 2.17   | 41.2   | 7.5   |
|         | 109.9  | 110.9 | 4,961                              | 10,073               | 1,031                              | 3,289                              | 237                                | 36.8                               | 58.7                               | 3.9                                | 9.8                                | 1.1                                | 1.7                                | 0.3                                | 1.1                                | 0.2                                | 21.6                              | 1.97   | 29.8   | 5.2   |
|         | 110.9  | 111.9 | 4,891                              | 10,527               | 1,143                              | 3,779                              | 297                                | 47.0                               | 75.6                               | 4.5                                | 11.7                               | 1.2                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 2.08   | 41     | 7.5   |
|         | 111.9  | 112.6 | 4,433                              | 9,704                | 1,070                              | 3,604                              | 290                                | 44.9                               | 72.5                               | 4.5                                | 11.1                               | 1.2                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 24.1                              | 1.93   | 38.4   | 6.7   |
|         | 112.6  | 113.1 | 2,662                              | 5,835                | 608                                | 2,012                              | 156                                | 25.6                               | 44.3                               | 3.3                                | 9.3                                | 1.2                                | 2.2                                | 0.3                                | 1.5                                | 0.2                                | 27.9                              | 1.14   | 30.7   | 17.6  |
|         | 113.1  | 114.0 | 4,750                              | 9,741                | 991                                | 3,126                              | 239                                | 39.5                               | 65.2                               | 4.4                                | 12.6                               | 1.3                                | 2.3                                | 0.2                                | 1.1                                | 0.1                                | 27.9                              | 1.90   | 43.3   | 7.9   |
|         | 114.0  | 115.0 | 6,028                              | 12,284               | 1,311                              | 4,117                              | 324                                | 50.6                               | 84.1                               | 5.7                                | 17.0                               | 2.0                                | 3.9                                | 0.4                                | 2.5                                | 0.3                                | 45.7                              | 2.43   | 51.7   | 7.4   |
|         | 115.0  | 116.0 | 7,776                              | 15,908               | 1,631                              | 4,911                              | 354                                | 57.3                               | 94.9                               | 6.5                                | 17.7                               | 1.9                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 41.9                              | 3.08   | 58.3   | 11.8  |
|         | 116.0  | 117.0 | 4,140                              | 8,574                | 893                                | 2,904                              | 222                                | 34.9                               | 57.5                               | 4.0                                | 11.3                               | 1.3                                | 2.2                                | 0.2                                | 1.6                                | 0.2                                | 31.8                              | 1.69   | 34.7   | 12.6  |
|         | 117.0  | 118.0 | 6,075                              | 12,653               | 1,402                              | 4,292                              | 326                                | 51.8                               | 85.1                               | 5.9                                | 16.3                               | 1.8                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 39.4                              | 2.50   | 52.2   | 8.2   |
|         | 118.0  | 119.0 | 5,278                              | 11,019               | 1,137                              | 3,651                              | 274                                | 42.0                               | 71.2                               | 4.7                                | 14.0                               | 1.7                                | 2.7                                | 0.3                                | 1.6                                | 0.2                                | 35.6                              | 2.15   | 38.8   | 7     |
|         | 119.0  | 119.7 | 4,515                              | 9,102                | 947                                | 3,068                              | 234                                | 38.2                               | 64.2                               | 4.6                                | 14.2                               | 1.9                                | 3.4                                | 0.4                                | 2.2                                | 0.3                                | 44.5                              | 1.80   | 33.8   | 11.6  |
|         | 119.7  | 120.1 | 3,202                              | 6,744                | 708                                | 2,356                              | 201                                | 34.2                               | 62.7                               | 5.0                                | 17.6                               | 2.3                                | 4.9                                | 0.5                                | 3.2                                | 0.5                                | 59.7                              | 1.34   | 40.9   | 14.7  |
|         | 120.1  | 120.7 | 1,132                              | 2,715                | 304                                | 1,116                              | 142                                | 33.4                               | 81.7                               | 9.2                                | 41.7                               | 6.6                                | 14.9                               | 1.9                                | 12.3                               | 1.6                                | 189.2                             | 0.58   | 52.1   | 23.3  |
|         | 120.7  | 121.6 | 2,639                              | 5,540                | 579                                | 1,907                              | 159                                | 29.1                               | 57.3                               | 5.2                                | 20.0                               | 2.9                                | 6.6                                | 0.8                                | 5.5                                | 0.7                                | 81.3                              | 1.10   | 35.2   | 14.6  |
|         | 121.6  | 122.2 | 3,084                              | 6,437                | 672                                | 2,187                              | 191                                | 36.1                               | 76.9                               | 7.5                                | 31.2                               | 4.8                                | 10.4                               | 1.2                                | 7.6                                | 1.0                                | 132.1                             | 1.29   | 42.3   | 18.7  |
|         | 122.2  | 123.2 | 3,366                              | 6,867                | 712                                | 2,304                              | 192                                | 34.4                               | 69.3                               | 6.3                                | 23.4                               | 3.5                                | 7.0                                | 0.8                                | 5.0                                | 0.6                                | 88.9                              | 1.37   | 33.3   | 11.1  |
|         | 123.2  | 124.0 | 1,208                              | 2,850                | 312                                | 1,112                              | 130                                | 28.3                               | 69.5                               | 7.7                                | 34.4                               | 5.6                                | 11.7                               | 1.4                                | 9.0                                | 1.2                                | 147.3                             | 0.59   | 38.2   | 15    |
|         | 124.0  | 125.0 | 4,152                              | 8,353                | 854                                | 2,718                              | 206                                | 35.2                               | 66.2                               | 5.6                                | 22.3                               | 3.1                                | 6.5                                | 0.7                                | 4.2                                | 0.5                                | 78.7                              | 1.65   | 30     | 13.7  |
|         | 125.0  | 126.0 | 3,683                              | 7,420                | 762                                | 2,473                              | 197                                | 34.0                               | 64.0                               | 5.5                                | 19.7                               | 2.8                                | 6.2                                | 0.7                                | 3.6                                | 0.4                                | 73.7                              | 1.47   | 30     | 13.9  |
|         | 126.0  | 127.0 | 3,296                              | 6,633                | 620                                | 2,047                              | 155                                | 26.5                               | 56.8                               | 4.4                                | 17.6                               | 2.4                                | 5.3                                | 0.6                                | 3.1                                | 0.4                                | 62.2                              | 1.29   | 27.7   | 15.4  |
|         | 127.0  | 128.0 | 8,819                              | 18,672               | 2,036                              | 6,497                              | 448                                | 69.8                               | 113.3                              | 7.4                                | 20.8                               | 2.5                                | 4.5                                | 0.5                                | 2.4                                | 0.3                                | 58.4                              | 3.68   | 60.5   | 10.7  |
|         | 128.0  | 129.0 | 4,457                              | 9,078                | 928                                | 2,963                              | 215                                | 33.0                               | 55.3                               | 3.6                                | 10.2                               | 1.1                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 1.78   | 28.7   | 10.8  |
|         | 129.0  | 130.0 | 2,709                              | 5,737                | 613                                | 2,094                              | 192                                | 35.4                               | 69.3                               | 6.0                                | 23.5                               | 3.3                                | 7.0                                | 0.9                                | 5.4                                | 0.6                                | 94.0                              | 1.16   | 42.9   | 11.8  |
|         | 130.0  | 130.7 | 7,295                              | 15,355               | 1,655                              | 5,086                              | 358                                | 55.6                               | 91.3                               | 6.3                                | 18.0                               | 2.0                                | 3.5                                | 0.3                                | 1.6                                | 0.2                                | 44.5                              | 3.00   | 45     | 9.9   |
|         | 130.7  | 131.7 | 5,149                              | 11,056               | 1,161                              | 3,709                              | 249                                | 37.8                               | 61.4                               | 4.3                                | 12.3                               | 1.4                                | 2.7                                | 0.2                                | 1.5                                | 0.2                                | 35.6                              | 2.15   | 26.1   | 7.5   |
|         | 131.7  | 132.2 | 3,096                              | 6,474                | 694                                | 2,309                              | 199                                | 36.2                               | 70.2                               | 6.3                                | 24.6                               | 3.6                                | 7.8                                | 0.8                                | 4.3                                | 0.4                                | 97.8                              | 1.30   | 35.1   | 13    |
|         | 132.2  | 133.2 | 5,008                              | 10,663               | 1,138                              | 3,732                              | 283                                | 44.2                               | 76.7                               | 6.3                                | 22.3                               | 3.0                                | 6.2                                | 0.7                                | 4.4                                | 0.5                                | 81.3                              | 2.11   | 38.1   | 12    |
|         | 133.2  | 134.2 | 5,395                              | 10,908               | 1,108                              | 3,476                              | 254                                | 40.1                               | 67.2                               | 4.9                                | 13.5                               | 1.5                                | 2.4                                | 0.2                                | 1.0                                | 0.1                                | 33.0                              | 2.13   | 49.1   | 8.3   |
|         | 134.2  | 134.8 | 2,275                              | 4,742                | 500                                | 1,685                              | 152                                | 28.5                               | 56.9                               | 5.0                                | 18.4                               | 2.6                                | 5.5                                | 0.6                                | 3.9                                | 0.5                                | 69.8                              | 0.95   | 37.7   | 7.5   |
|         | 134.8  | 135.3 | 3,847                              | 7,149                | 789                                | 2,473                              | 175                                | 27.2                               | 42.7                               | 2.5                                | 7.1                                | 0.8                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 17.8                              | 1.45   | 20.3   | 9.8   |
|         | 135.3  | 135.8 | 2,967                              | 6,375                | 702                                | 2,414                              | 219                                | 37.2                               | 62.9                               | 4.5                                | 13.5                               | 1.7                                | 3.3                                | 0.3                                | 2.2                                | 0.3                                | 41.9                              | 1.28   | 37.7   | 9.6   |
|         | 135.8  | 136.4 | 4,128                              | 9,078                | 987                                | 3,324                              | 291                                | 49.7                               | 82.4                               | 5.3                                | 14.9                               | 1.5                                | 2.7                                | 0.3                                | 1.4                                | 0.2                                | 34.3                              | 1.80   | 54.2   | 16.4  |
|         | 136.4  | 137.2 | 4,527                              | 9,839                | 1,058                              | 3,499                              | 292                                | 49.1                               | 83.5                               | 5.6                                | 16.2                               | 1.6                                | 2.5                                | 0.3                                | 1.1                                | 0.2                                | 35.6                              | 1.94   | 60.7   | 7.9   |
|         | 137.2  | 138.2 | 5,794                              | 12,468               | 1,329                              | 4,316                              | 328                                | 50.8                               | 79.1                               | 4.7                                | 12.2                               | 1.2                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 2.44   | 37.2   | 2.3   |
|         | 138.2  | 139.2 | 5,360                              | 11,486               | 1,208                              | 3,896                              | 286                                | 43.9                               | 70.7                               | 4.1                                | 11.0                               | 1.1                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 2.24   | 33.2   | 0.6   |
|         | 139.2  | 140.0 | 5,442                              | 11,707               | 1,263                              | 4,176                              | 337                                | 53.0                               | 84.8                               | 5.1                                | 13.4                               | 1.4                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 2.31   | 52.7   | 1     |
|         | 140.0  | 140.9 | 11,482                             | 23,033               | 2,290                              | 6,928                              | 465                                | 71.9                               | 112.6                              | 7.2                                | 19.2                               | 1.9                                | 3.1                                | 0.3                                | 1.4                                | 0.1                                | 44.5                              | 4.45   | 58     | 3     |
|         | 140.9  | 141.6 | 3,131                              | 6,756                | 696                                | 2,170                              | 151                                | 24.1                               | 37.9                               | 2.3                                | 7.1                                | 0.8                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.30   | 20.2   | 6.3   |
|         | 141.6  | 142.2 | 2,428                              | 5,147                | 521                                | 1,610                              | 110                                | 16.8                               | 27.1                               | 1.7                                | 5.4                                | 0.7                                | 1.1                                | 0.1                                | 0.7                                | 0.1                                | 15.2                              | 0.99   | 12.5   | 6.4   |
|         | 142.2  | 142.6 | 4,785                              | 9,569                | 963                                | 2,939                              | 197                                | 30.3                               | 45.9                               | 3.1                                | 9.1                                | 1.1                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 24.1                              | 1.86   | 26.7   | 9.9   |
|         | 142.6  | 143.5 | 6,943                              | 14,557               | 1,613                              | 4,957                              | 385                                | 60.1                               | 104.7                              | 6.9                                | 18.9                               | 1.8                                | 3.0                                | 0.3                                | 1.1                                | 0.2                                | 38.1                              | 2.87   | 66.9   | 2.1   |
|         | 143.5  | 144.5 | 7,834                              | 16,338               | 1,691                              | 5,307                              | 380                                | 60.1                               | 99.1                               | 6.1                                | 17.6                               | 1.6                                | 2.5                                | 0.2                                | 1.0                                | 0.1                                | 34.3                              | 3.18   | 67.2   | 1.3   |
|         | 144.5  | 145.3 | 5,125                              | 10,405               | 1,041                              | 3,173                              | 212                                | 34.3                               | 58.8                               | 4.5                                | 15.0                               | 1.6                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 39.4                              | 2.01   | 36.2   | 2.9   |
|         | 145.3  | 145.7 | 4,140                              | 8,402                | 820                                | 2,473                              | 153                                | 24.0                               | 39.0                               | 2.8                                | 8.4                                | 0.9                                | 1.6                                | 0.2                                | 0.5                                | 0.1                                | 22.9                              | 1.61   | 22.2   | 5.9   |



| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 145.7  | 146.5 | 9,852                              | 19,286               | 1,909                              | 6,030                              | 507                                | 88.8                               | 151.6                              | 9.9                                | 26.1                               | 2.5                                | 3.4                                | 0.3                                | 1.3                                | 0.2                                | 52.1                              | 3.79   | 134    | 3.7   |
|         | 146.5  | 147.1 | 9,535                              | 17,935               | 1,691                              | 4,934                              | 330                                | 55.8                               | 94.3                               | 7.0                                | 21.0                               | 2.2                                | 3.1                                | 0.2                                | 1.1                                | 0.2                                | 48.3                              | 3.47   | 74.6   | 2     |
|         | 147.1  | 147.9 | 14,601                             | 25,305               | 2,694                              | 7,045                              | 442                                | 68.1                               | 117.0                              | 8.1                                | 24.3                               | 2.3                                | 3.5                                | 0.2                                | 1.1                                | 0.2                                | 50.8                              | 5.04   | 84.7   | 1.3   |
|         | 147.9  | 148.9 | 8,327                              | 16,706               | 1,667                              | 5,132                              | 341                                | 52.8                               | 85.1                               | 5.7                                | 15.8                               | 1.7                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 35.6                              | 3.24   | 51.7   | 2.9   |
|         | 148.9  | 149.6 | 10,262                             | 20,330               | 1,975                              | 5,914                              | 383                                | 59.2                               | 91.2                               | 5.8                                | 16.6                               | 1.7                                | 2.6                                | 0.2                                | 0.8                                | 0.1                                | 35.6                              | 3.91   | 49.6   | 2.1   |
|         | 149.6  | 150.6 | 20,172                             | 35,746               | 3,298                              | 9,343                              | 598                                | 99.2                               | 168.3                              | 11.3                               | 31.7                               | 3.0                                | 4.4                                | 0.4                                | 1.3                                | 0.2                                | 66.0                              | 6.95   | 106    | 2.3   |
|         | 150.6  | 150.9 | 16,419                             | 28,745               | 2,646                              | 7,558                              | 500                                | 85.2                               | 149.8                              | 10.8                               | 33.2                               | 3.4                                | 4.9                                | 0.4                                | 1.6                                | 0.2                                | 74.9                              | 5.62   | 99.7   | 2.6   |
|         | 150.9  | 151.6 | 16,478                             | 29,604               | 2,743                              | 7,990                              | 544                                | 87.8                               | 142.9                              | 9.7                                | 26.5                               | 2.6                                | 4.4                                | 0.3                                | 1.6                                | 0.2                                | 58.4                              | 5.77   | 87.6   | 3     |
|         | 151.6  | 152.0 | 11,177                             | 19,593               | 2,145                              | 5,879                              | 373                                | 56.5                               | 87.8                               | 5.2                                | 14.1                               | 1.4                                | 2.3                                | 0.2                                | 0.7                                | 0.1                                | 30.5                              | 3.94   | 43.5   | 2.7   |
|         | 152.0  | 152.7 | 5,207                              | 10,355               | 1,037                              | 3,138                              | 217                                | 36.1                               | 59.6                               | 4.3                                | 13.0                               | 1.5                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 34.3                              | 2.01   | 44.1   | 4.9   |
|         | 152.7  | 153.7 | 6,873                              | 13,820               | 1,377                              | 4,187                              | 283                                | 45.4                               | 75.3                               | 5.3                                | 15.7                               | 1.7                                | 3.0                                | 0.3                                | 1.3                                | 0.2                                | 41.9                              | 2.67   | 52.6   | 5.4   |
|         | 153.7  | 154.7 | 4,808                              | 9,410                | 928                                | 2,811                              | 192                                | 31.4                               | 53.4                               | 3.6                                | 11.4                               | 1.3                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 29.2                              | 1.83   | 37.6   | 4.7   |
|         | 154.7  | 155.6 | 4,527                              | 9,324                | 944                                | 2,881                              | 197                                | 31.5                               | 52.2                               | 3.6                                | 10.8                               | 1.2                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 26.7                              | 1.80   | 36.2   | 1.9   |
|         | 155.6  | 156.3 | 3,929                              | 8,193                | 836                                | 2,589                              | 181                                | 29.2                               | 46.5                               | 3.0                                | 9.0                                | 1.1                                | 1.6                                | 0.2                                | 1.1                                | 0.1                                | 24.1                              | 1.58   | 22.8   | 3.8   |
|         | 156.3  | 156.8 | 10,473                             | 19,470               | 1,824                              | 5,295                              | 336                                | 51.4                               | 87.3                               | 5.9                                | 16.6                               | 1.9                                | 2.9                                | 0.3                                | 1.4                                | 0.2                                | 40.6                              | 3.76   | 52.3   | 2.6   |
|         | 156.8  | 157.8 | 8,538                              | 16,153               | 1,553                              | 4,642                              | 319                                | 52.5                               | 86.9                               | 6.3                                | 20.0                               | 2.1                                | 3.3                                | 0.3                                | 1.4                                | 0.2                                | 49.5                              | 3.14   | 69.1   | 2.2   |
|         | 157.8  | 158.3 | 4,163                              | 7,309                | 683                                | 2,164                              | 153                                | 27.7                               | 52.6                               | 4.5                                | 15.2                               | 1.7                                | 3.4                                | 0.3                                | 1.8                                | 0.2                                | 47.0                              | 1.46   | 38.5   | 1.5   |
|         | 158.3  | 159.3 | 9,277                              | 16,092               | 1,468                              | 4,561                              | 285                                | 48.4                               | 79.5                               | 6.6                                | 19.3                               | 2.0                                | 3.2                                | 0.2                                | 1.0                                | 0.1                                | 41.9                              | 3.19   | 67.6   | 1.7   |
|         | 159.3  | 159.8 | 3,331                              | 5,945                | 552                                | 1,715                              | 115                                | 19.2                               | 36.5                               | 3.3                                | 10.8                               | 1.0                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 25.4                              | 1.18   | 35.7   | 1.8   |
|         | 159.8  | 160.8 | 9,242                              | 16,583               | 1,540                              | 4,852                              | 291                                | 47.9                               | 80.3                               | 6.0                                | 17.7                               | 1.7                                | 2.6                                | 0.2                                | 1.1                                | 0.1                                | 38.1                              | 3.27   | 52.5   | 1.2   |
|         | 160.8  | 161.4 | 4,855                              | 9,238                | 893                                | 2,881                              | 183                                | 30.3                               | 52.9                               | 4.4                                | 13.3                               | 1.4                                | 2.3                                | 0.2                                | 1.0                                | 0.2                                | 30.5                              | 1.82   | 38.3   | 2.1   |
|         | 161.4  | 162.4 | 11,963                             | 21,374               | 2,096                              | 5,972                              | 354                                | 58.6                               | 99.9                               | 7.8                                | 22.8                               | 2.4                                | 4.4                                | 0.3                                | 1.5                                | 0.2                                | 61.0                              | 4.20   | 66.8   | 1.6   |
|         | 162.4  | 163.4 | 6,732                              | 11,608               | 1,043                              | 3,173                              | 185                                | 32.1                               | 55.2                               | 5.3                                | 17.9                               | 1.9                                | 3.1                                | 0.2                                | 1.3                                | 0.1                                | 44.5                              | 2.29   | 41.7   | 0.9   |
|         | 163.4  | 163.8 | 15,716                             | 27,762               | 2,670                              | 7,383                              | 407                                | 67.9                               | 113.2                              | 9.4                                | 30.5                               | 3.3                                | 5.6                                | 0.4                                | 2.1                                | 0.2                                | 73.7                              | 5.42   | 80.2   | 1.5   |
|         | 163.8  | 164.7 | 38,702                             | 71,739               | 6,645                              | 20,062                             | 1,071                              | 176.0                              | 288.2                              | 19.9                               | 53.8                               | 4.7                                | 6.9                                | 0.5                                | 1.4                                | 0.1                                | 101.6                             | 13.89  | 222    | 1.6   |
|         | 164.7  | 165.7 | 15,070                             | 25,674               | 2,477                              | 7,068                              | 437                                | 74.3                               | 130.8                              | 10.3                               | 31.1                               | 3.1                                | 4.4                                | 0.3                                | 1.4                                | 0.2                                | 67.3                              | 5.10   | 120    | 1.6   |
|         | 165.7  | 166.4 | 10,368                             | 16,583               | 1,414                              | 3,837                              | 237                                | 41.5                               | 75.8                               | 6.1                                | 20.1                               | 2.1                                | 3.1                                | 0.2                                | 0.9                                | 0.1                                | 47.0                              | 3.26   | 60.6   | 1.1   |
|         | 166.4  | 167.4 | 17,944                             | 33,290               | 3,262                              | 9,914                              | 732                                | 123.9                              | 211.5                              | 14.1                               | 41.0                               | 3.7                                | 5.0                                | 0.3                                | 1.4                                | 0.2                                | 80.0                              | 6.56   | 160.5  | 3     |
|         | 167.4  | 168.0 | 6,884                              | 12,960               | 1,341                              | 4,467                              | 429                                | 79.0                               | 138.3                              | 9.5                                | 26.9                               | 2.5                                | 3.3                                | 0.2                                | 1.0                                | 0.1                                | 54.6                              | 2.64   | 115.5  | 1.3   |
|         | 168.0  | 168.9 | 5,758                              | 9,557                | 866                                | 2,706                              | 180                                | 31.2                               | 55.6                               | 4.6                                | 14.1                               | 1.3                                | 2.6                                | 0.2                                | 0.8                                | 0.1                                | 35.6                              | 1.92   | 51.8   | 3.6   |
|         | 168.9  | 169.7 | 3,213                              | 5,491                | 484                                | 1,470                              | 89                                 | 15.9                               | 27.1                               | 2.3                                | 6.8                                | 0.7                                | 1.3                                | 0.1                                | 0.5                                | 0.1                                | 17.8                              | 1.08   | 26.4   | 1.8   |
|         | 169.7  | 170.4 | 5,289                              | 9,287                | 913                                | 3,254                              | 337                                | 66.7                               | 121.6                              | 8.8                                | 25.5                               | 2.6                                | 4.1                                | 0.4                                | 1.7                                | 0.2                                | 59.7                              | 1.94   | 110.5  | 3.4   |
|         | 170.4  | 170.9 | 7,987                              | 12,898               | 1,130                              | 3,441                              | 223                                | 40.0                               | 72.6                               | 6.7                                | 21.4                               | 2.3                                | 3.5                                | 0.2                                | 1.1                                | 0.1                                | 52.1                              | 2.59   | 67.1   | 3.6   |
|         | 170.9  | 171.9 | 6,720                              | 10,220               | 870                                | 2,566                              | 164                                | 28.7                               | 51.8                               | 4.4                                | 13.4                               | 1.4                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 34.3                              | 2.07   | 39.1   | 2.6   |
|         | 171.9  | 172.9 | 22,635                             | 37,098               | 3,443                              | 9,518                              | 532                                | 88.7                               | 149.3                              | 11.0                               | 31.2                               | 3.0                                | 4.4                                | 0.3                                | 1.1                                | 0.1                                | 67.3                              | 7.36   | 103.5  | 3.2   |
|         | 172.9  | 173.6 | 6,415                              | 10,540               | 917                                | 2,729                              | 169                                | 29.3                               | 54.2                               | 4.7                                | 15.8                               | 1.7                                | 2.9                                | 0.2                                | 1.1                                | 0.2                                | 40.6                              | 2.09   | 39.6   | 4.8   |
|         | 173.6  | 174.6 | 4,152                              | 7,813                | 747                                | 2,426                              | 155                                | 25.9                               | 45.8                               | 4.0                                | 13.1                               | 1.4                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 33.0                              | 1.54   | 46.9   | 3.5   |
|         | 174.6  | 175.6 | 5,911                              | 11,006               | 1,066                              | 3,441                              | 212                                | 33.5                               | 57.3                               | 4.2                                | 13.4                               | 1.4                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 33.0                              | 2.18   | 37.2   | 6.7   |
|         | 175.6  | 176.2 | 4,093                              | 7,899                | 770                                | 2,508                              | 154                                | 24.1                               | 39.7                               | 2.9                                | 9.8                                | 1.0                                | 1.7                                | 0.2                                | 1.1                                | 0.1                                | 26.7                              | 1.55   | 24.8   | 6.4   |
|         | 176.2  | 176.9 | 6,122                              | 11,928               | 1,185                              | 3,849                              | 240                                | 36.9                               | 58.2                               | 4.1                                | 11.8                               | 1.2                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 30.5                              | 2.35   | 33.1   | 4     |
|         | 176.9  | 177.3 | 7,776                              | 15,478               | 1,601                              | 5,377                              | 343                                | 53.0                               | 79.5                               | 5.0                                | 13.9                               | 1.4                                | 2.5                                | 0.2                                | 1.0                                | 0.2                                | 33.0                              | 3.08   | 37.6   | 9.6   |
|         | 177.3  | 178.3 | 6,791                              | 13,328               | 1,341                              | 4,456                              | 270                                | 40.3                               | 62.9                               | 4.0                                | 11.4                               | 1.2                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 29.2                              | 2.63   | 31.1   | 6.3   |
|         | 178.3  | 179.3 | 4,820                              | 9,311                | 932                                | 3,079                              | 214                                | 34.0                               | 58.7                               | 4.5                                | 14.5                               | 1.4                                | 3.4                                | 0.2                                | 1.0                                | 0.2                                | 35.6                              | 1.85   | 49.6   | 3.6   |
|         | 179.3  | 180.3 | 8,339                              | 16,829               | 1,758                              | 5,680                              | 364                                | 53.7                               | 83.8                               | 5.7                                | 15.2                               | 1.7                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 36.8                              | 3.32   | 42.1   | 6.4   |
|         | 180.3  | 181.3 | 4,926                              | 9,360                | 915                                | 3,021                              | 201                                | 33.0                               | 55.4                               | 4.6                                | 14.7                               | 1.6                                | 2.9                                | 0.2                                | 1.0                                | 0.1                                | 38.1                              | 1.86   | 39.7   | 5.4   |
|         | 181.3  | 182.3 | 5,278                              | 10,380               | 1,046                              | 3,464                              | 224                                | 34.5                               | 55.9                               | 4.1                                | 12.2                               | 1.3                                | 2.3                                | 0.3                                | 1.4                                | 0.2                                | 27.9                              | 2.05   | 32.3   | 4.4   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 182.3  | 183.3 | 5,688                              | 9,643                | 997                                | 2,951                              | 201                                | 36.1                               | 57.3                               | 5.1                                | 13.0                               | 1.5                                | 2.5                                | 0.3                                | 1.4                                | 0.2                                | 31.8                              | 1.96   | 47.4   | 8.6   |
|         | 183.3  | 183.8 | 5,289                              | 8,820                | 905                                | 2,601                              | 176                                | 33.0                               | 52.1                               | 4.7                                | 13.3                               | 1.7                                | 2.5                                | 0.3                                | 1.1                                | 0.2                                | 35.6                              | 1.79   | 35.2   | 6     |
|         | 183.8  | 184.6 | 5,958                              | 10,343               | 1,080                              | 3,371                              | 283                                | 50.1                               | 96.8                               | 8.1                                | 24.8                               | 2.5                                | 3.8                                | 0.4                                | 2.5                                | 0.4                                | 58.4                              | 2.13   | 85.3   | 10.4  |
|         | 184.6  | 185.3 | 9,981                              | 16,031               | 1,601                              | 4,619                              | 325                                | 59.5                               | 92.7                               | 7.7                                | 20.4                               | 2.2                                | 3.2                                | 0.3                                | 1.1                                | 0.2                                | 45.7                              | 3.28   | 94.4   | 7.5   |
|         | 185.3  | 185.6 | 8,819                              | 14,372               | 1,420                              | 4,059                              | 279                                | 52.6                               | 85.0                               | 6.9                                | 20.2                               | 2.1                                | 2.9                                | 0.3                                | 1.1                                | 0.2                                | 45.7                              | 2.92   | 59.1   | 5.7   |
|         | 185.6  | 186.2 | 8,280                              | 13,512               | 1,365                              | 3,989                              | 298                                | 56.9                               | 101.9                              | 9.4                                | 25.4                               | 2.6                                | 3.7                                | 0.4                                | 1.8                                | 0.2                                | 55.9                              | 2.77   | 126    | 9     |
|         | 186.2  | 186.6 | 34,832                             | 51,961               | 5,147                              | 13,938                             | 864                                | 166.2                              | 268.6                              | 21.2                               | 53.0                               | 5.5                                | 6.8                                | 0.5                                | 2.3                                | 0.3                                | 110.5                             | 10.74  | 199.5  | 6.4   |
|         | 186.6  | 187.6 | 10,110                             | 16,031               | 1,553                              | 4,292                              | 282                                | 50.1                               | 83.0                               | 6.9                                | 20.1                               | 2.6                                | 4.8                                | 0.4                                | 2.1                                | 0.3                                | 59.7                              | 3.25   | 57.6   | 7     |
|         | 187.6  | 188.6 | 6,403                              | 10,294               | 1,028                              | 2,939                              | 201                                | 38.1                               | 66.9                               | 6.0                                | 17.3                               | 2.0                                | 2.9                                | 0.3                                | 1.6                                | 0.3                                | 44.5                              | 2.10   | 58.2   | 10    |
|         | 188.6  | 189.6 | 15,950                             | 24,384               | 2,428                              | 6,182                              | 393                                | 74.8                               | 124.5                              | 11.0                               | 32.6                               | 3.7                                | 6.0                                | 0.6                                | 3.1                                | 0.5                                | 81.3                              | 4.97   | 100    | 7.9   |
|         | 189.6  | 190.6 | 12,314                             | 18,856               | 1,800                              | 4,852                              | 313                                | 57.1                               | 93.0                               | 8.5                                | 27.1                               | 3.7                                | 7.2                                | 0.8                                | 4.4                                | 0.5                                | 91.4                              | 3.84   | 59.4   | 8.4   |
|         | 190.6  | 191.6 | 3,964                              | 6,867                | 710                                | 2,140                              | 160                                | 29.3                               | 50.5                               | 4.9                                | 18.0                               | 3.0                                | 6.6                                | 0.8                                | 4.0                                | 0.6                                | 82.5                              | 1.40   | 29.4   | 9.8   |
|         | 191.6  | 192.2 | 2,897                              | 5,331                | 564                                | 1,715                              | 139                                | 30.6                               | 64.7                               | 8.9                                | 41.3                               | 6.6                                | 13.4                               | 1.4                                | 7.0                                | 0.9                                | 182.9                             | 1.10   | 50.5   | 8.2   |
|         | 192.2  | 193.0 | 3,331                              | 5,835                | 600                                | 1,790                              | 125                                | 22.4                               | 38.4                               | 3.8                                | 12.6                               | 1.8                                | 3.3                                | 0.4                                | 2.2                                | 0.4                                | 44.5                              | 1.18   | 28.8   | 7.7   |
|         | 193.0  | 193.5 | 3,507                              | 6,584                | 701                                | 2,123                              | 143                                | 24.4                               | 40.1                               | 2.9                                | 8.8                                | 1.1                                | 2.4                                | 0.3                                | 1.5                                | 0.2                                | 30.5                              | 1.32   | 25.5   | 6.9   |
|         | 193.5  | 194.3 | 2,803                              | 5,208                | 545                                | 1,680                              | 139                                | 27.8                               | 48.6                               | 4.7                                | 16.5                               | 2.4                                | 4.7                                | 0.6                                | 3.1                                | 0.4                                | 64.8                              | 1.05   | 32.3   | 8.8   |
|         | 194.3  | 194.9 | 1,876                              | 3,857                | 417                                | 1,318                              | 101                                | 18.9                               | 31.4                               | 2.7                                | 9.3                                | 1.3                                | 2.9                                | 0.3                                | 1.9                                | 0.3                                | 35.6                              | 0.77   | 23     | 5.6   |
|         | 194.9  | 195.4 | 2,123                              | 4,336                | 468                                | 1,470                              | 121                                | 25.5                               | 47.4                               | 4.7                                | 18.3                               | 2.7                                | 5.4                                | 0.7                                | 3.4                                | 0.6                                | 76.2                              | 0.87   | 40.5   | 8.5   |
|         | 195.4  | 196.4 | 2,135                              | 4,508                | 504                                | 1,668                              | 160                                | 32.9                               | 59.0                               | 5.8                                | 19.3                               | 2.9                                | 6.1                                | 0.7                                | 3.8                                | 0.5                                | 73.7                              | 0.92   | 60.6   | 11.8  |
|         | 196.4  | 197.4 | 2,545                              | 4,914                | 526                                | 1,621                              | 132                                | 27.8                               | 48.9                               | 4.7                                | 16.4                               | 2.5                                | 4.9                                | 0.7                                | 3.6                                | 0.5                                | 64.8                              | 0.99   | 48.9   | 8.5   |
|         | 197.4  | 198.1 | 2,041                              | 3,968                | 411                                | 1,248                              | 107                                | 22.6                               | 43.6                               | 4.6                                | 17.5                               | 2.7                                | 5.7                                | 0.7                                | 3.5                                | 0.5                                | 73.7                              | 0.79   | 30.5   | 3.9   |
|         | 198.1  | 199.1 | 2,035                              | 4,324                | 482                                | 1,580                              | 149                                | 28.7                               | 47.4                               | 3.5                                | 9.1                                | 1.0                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 24.1                              | 0.87   | 27.4   | 2.3   |
|         | 199.1  | 199.8 | 4,726                              | 9,496                | 1,116                              | 3,721                              | 348                                | 66.6                               | 109.3                              | 7.4                                | 17.9                               | 2.0                                | 3.0                                | 0.3                                | 1.1                                | 0.2                                | 39.4                              | 1.97   | 61.4   | 5.3   |
|         | 199.8  | 200.6 | 1,425                              | 2,653                | 268                                | 818                                | 79                                 | 19.0                               | 37.6                               | 4.5                                | 18.1                               | 2.9                                | 5.7                                | 0.7                                | 3.5                                | 0.5                                | 72.4                              | 0.54   | 22.9   | 5.3   |
|         | 200.6  | 201.2 | 2,099                              | 3,894                | 388                                | 1,150                              | 94                                 | 19.7                               | 38.2                               | 3.9                                | 14.0                               | 2.2                                | 3.9                                | 0.5                                | 2.9                                | 0.4                                | 54.6                              | 0.78   | 27.5   | 2.8   |
|         | 201.2  | 201.8 | 1,853                              | 3,489                | 352                                | 1,042                              | 89                                 | 19.1                               | 36.9                               | 3.8                                | 13.8                               | 2.2                                | 4.2                                | 0.6                                | 2.9                                | 0.4                                | 52.1                              | 0.70   | 32.2   | 4.5   |
|         | 201.8  | 202.8 | 2,991                              | 5,012                | 488                                | 1,435                              | 106                                | 21.2                               | 36.1                               | 3.7                                | 12.9                               | 1.8                                | 2.9                                | 0.3                                | 1.5                                | 0.3                                | 40.6                              | 1.02   | 30.8   | 8     |
|         | 202.8  | 203.3 | 3,765                              | 7,112                | 777                                | 2,391                              | 160                                | 27.0                               | 40.3                               | 2.9                                | 8.2                                | 1.0                                | 1.7                                | 0.2                                | 1.3                                | 0.2                                | 21.6                              | 1.43   | 22.3   | 8     |
|         | 203.3  | 204.3 | 3,776                              | 6,388                | 636                                | 1,866                              | 130                                | 24.9                               | 46.6                               | 4.4                                | 16.5                               | 2.2                                | 4.7                                | 0.6                                | 3.3                                | 0.6                                | 57.2                              | 1.30   | 33     | 7.2   |
|         | 204.3  | 205.3 | 4,808                              | 7,972                | 783                                | 2,228                              | 146                                | 27.7                               | 47.1                               | 4.2                                | 12.3                               | 1.3                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 30.5                              | 1.61   | 42.5   | 7     |
|         | 205.3  | 206.3 | 8,620                              | 13,574               | 1,293                              | 3,593                              | 228                                | 41.9                               | 67.7                               | 5.6                                | 15.4                               | 1.8                                | 2.4                                | 0.3                                | 1.1                                | 0.2                                | 38.1                              | 2.75   | 50.4   | 7.8   |
|         | 206.3  | 207.3 | 10,895                             | 18,549               | 1,631                              | 4,584                              | 286                                | 46.7                               | 83.7                               | 7.5                                | 25.1                               | 2.8                                | 4.7                                | 0.5                                | 2.7                                | 0.3                                | 66.0                              | 3.62   | 62.6   | 9.6   |
|         | 207.3  | 208.3 | 15,422                             | 25,919               | 2,368                              | 6,205                              | 383                                | 67.0                               | 130.2                              | 11.2                               | 34.2                               | 3.4                                | 6.2                                | 0.6                                | 2.9                                | 0.3                                | 80.0                              | 5.06   | 128    | 13.4  |
|         | 208.3  | 209.3 | 12,432                             | 19,593               | 1,631                              | 4,572                              | 285                                | 49.4                               | 95.4                               | 8.1                                | 24.3                               | 2.2                                | 3.8                                | 0.3                                | 1.6                                | 0.2                                | 49.5                              | 3.87   | 83.9   | 10    |
|         | 209.3  | 210.3 | 8,831                              | 15,355               | 1,335                              | 3,837                              | 231                                | 37.2                               | 66.5                               | 5.1                                | 15.8                               | 1.5                                | 2.7                                | 0.2                                | 0.9                                | 0.1                                | 36.8                              | 2.98   | 54.5   | 7.6   |
|         | 210.3  | 211.3 | 11,517                             | 18,917               | 1,607                              | 4,502                              | 275                                | 43.8                               | 76.2                               | 6.4                                | 19.5                               | 2.2                                | 4.0                                | 0.4                                | 2.1                                | 0.2                                | 50.8                              | 3.70   | 55     | 7.7   |
|         | 211.3  | 212.3 | 7,811                              | 12,714               | 1,089                              | 3,091                              | 191                                | 31.7                               | 56.3                               | 4.7                                | 14.9                               | 1.7                                | 3.4                                | 0.4                                | 2.1                                | 0.3                                | 41.9                              | 2.51   | 39.8   | 6     |
|         | 212.3  | 213.3 | 10,086                             | 16,522               | 1,395                              | 3,931                              | 240                                | 38.6                               | 68.6                               | 5.7                                | 17.3                               | 1.8                                | 2.7                                | 0.3                                | 1.4                                | 0.2                                | 40.6                              | 3.24   | 58.3   | 7.7   |
|         | 213.3  | 214.3 | 9,242                              | 15,662               | 1,389                              | 3,989                              | 266                                | 45.6                               | 88.1                               | 7.6                                | 25.8                               | 2.9                                | 5.2                                | 0.6                                | 3.6                                | 0.4                                | 69.8                              | 3.08   | 74.7   | 5.2   |
|         | 214.3  | 215.3 | 8,655                              | 14,986               | 1,323                              | 3,826                              | 260                                | 47.6                               | 89.8                               | 8.2                                | 27.4                               | 3.1                                | 5.4                                | 0.5                                | 3.1                                | 0.4                                | 77.5                              | 2.93   | 73.5   | 5.9   |
|         | 215.3  | 216.3 | 11,341                             | 19,900               | 1,782                              | 4,899                              | 297                                | 47.9                               | 84.7                               | 6.7                                | 19.9                               | 1.9                                | 2.9                                | 0.3                                | 1.4                                | 0.1                                | 43.2                              | 3.84   | 77.2   | 5.4   |
|         | 216.3  | 217.3 | 17,475                             | 31,201               | 2,948                              | 7,652                              | 420                                | 63.8                               | 108.6                              | 7.7                                | 22.5                               | 2.1                                | 3.9                                | 0.3                                | 1.6                                | 0.2                                | 49.5                              | 6.00   | 88.5   | 3.6   |
|         | 217.3  | 218.3 | 18,765                             | 33,290               | 3,153                              | 8,223                              | 479                                | 77.5                               | 138.3                              | 10.8                               | 29.7                               | 3.0                                | 4.6                                | 0.4                                | 1.7                                | 0.2                                | 67.3                              | 6.42   | 123.5  | 3.8   |
|         | 218.3  | 219.3 | 21,345                             | 37,221               | 3,443                              | 9,191                              | 544                                | 87.5                               | 155.6                              | 11.6                               | 34.8                               | 3.4                                | 6.2                                | 0.5                                | 2.4                                | 0.3                                | 80.0                              | 7.21   | 130.5  | 4.6   |
|         | 219.3  | 220.3 | 17,416                             | 29,850               | 2,779                              | 7,465                              | 472                                | 79.8                               | 145.2                              | 11.6                               | 35.2                               | 3.2                                | 6.0                                | 0.5                                | 2.3                                | 0.3                                | 76.2                              | 5.83   | 135.5  | 4.2   |
|         | 220.3  | 221.3 | 8,116                              | 15,048               | 1,383                              | 4,164                              | 267                                | 43.2                               | 73.7                               | 5.8                                | 17.5                               | 1.7                                | 2.9                                | 0.3                                | 1.3                                | 0.2                                | 40.6                              | 2.92   | 73.9   | 3.6   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 221.3  | 222.3 | 11,728                             | 19,532               | 1,691                              | 4,607                              | 286                                | 51.6                               | 99.8                               | 9.2                                | 31.1                               | 3.3                                | 5.2                                | 0.5                                | 2.6                                | 0.3                                | 78.7                              | 3.81   | 99.1   | 3.2   |
|         | 222.3  | 223.2 | 10,743                             | 19,839               | 1,957                              | 5,529                              | 346                                | 53.5                               | 90.8                               | 7.1                                | 22.3                               | 2.3                                | 4.1                                | 0.4                                | 1.9                                | 0.2                                | 53.3                              | 3.86   | 74.4   | 4.5   |
|         | 223.2  | 224.2 | 9,570                              | 16,645               | 1,468                              | 4,269                              | 274                                | 44.8                               | 80.2                               | 6.9                                | 22.2                               | 2.3                                | 3.9                                | 0.3                                | 1.7                                | 0.2                                | 54.6                              | 3.24   | 76     | 7.8   |
|         | 224.2  | 225.2 | 11,118                             | 19,532               | 1,734                              | 4,957                              | 318                                | 51.9                               | 93.3                               | 7.4                                | 21.8                               | 2.2                                | 3.4                                | 0.3                                | 1.6                                | 0.1                                | 50.8                              | 3.79   | 82.2   | 8.5   |
|         | 225.2  | 226.2 | 5,712                              | 10,331               | 947                                | 2,823                              | 186                                | 29.9                               | 54.4                               | 4.9                                | 16.6                               | 1.8                                | 3.0                                | 0.2                                | 1.0                                | 0.2                                | 41.9                              | 2.02   | 58.9   | 6.2   |
|         | 226.2  | 227.2 | 3,049                              | 5,638                | 532                                | 1,650                              | 128                                | 22.6                               | 41.0                               | 3.9                                | 13.3                               | 1.4                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 35.6                              | 1.11   | 52.6   | 8.2   |
|         | 227.2  | 228.2 | 2,269                              | 4,275                | 396                                | 1,225                              | 92                                 | 16.6                               | 29.3                               | 2.5                                | 8.4                                | 1.0                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 0.83   | 31.2   | 7.8   |
|         | 228.2  | 228.9 | 4,421                              | 8,181                | 750                                | 2,257                              | 152                                | 24.4                               | 45.0                               | 3.5                                | 10.7                               | 1.3                                | 2.6                                | 0.3                                | 1.1                                | 0.1                                | 30.5                              | 1.59   | 36.9   | 9.8   |
|         | 228.9  | 229.4 | 3,753                              | 7,248                | 701                                | 2,210                              | 169                                | 30.0                               | 56.3                               | 5.3                                | 18.4                               | 1.8                                | 3.1                                | 0.3                                | 1.1                                | 0.1                                | 43.2                              | 1.42   | 64.2   | 7.1   |
|         | 229.4  | 230.4 | 13,780                             | 23,892               | 2,265                              | 6,065                              | 411                                | 73.6                               | 134.3                              | 11.4                               | 37.2                               | 3.5                                | 5.0                                | 0.3                                | 1.5                                | 0.1                                | 77.5                              | 4.68   | 126    | 2.7   |
|         | 230.4  | 231.4 | 11,271                             | 20,207               | 1,963                              | 5,540                              | 386                                | 65.9                               | 117.0                              | 8.8                                | 25.5                               | 2.4                                | 3.3                                | 0.3                                | 1.3                                | 0.2                                | 48.3                              | 3.96   | 110.5  | 2.5   |
|         | 231.4  | 232.4 | 14,895                             | 26,288               | 2,501                              | 6,882                              | 448                                | 70.6                               | 121.6                              | 8.7                                | 23.3                               | 2.2                                | 3.4                                | 0.2                                | 1.3                                | 0.1                                | 43.2                              | 5.13   | 107.5  | 2.7   |
|         | 232.4  | 233.4 | 9,418                              | 17,013               | 1,522                              | 4,409                              | 284                                | 45.7                               | 81.8                               | 6.3                                | 18.4                               | 1.7                                | 3.1                                | 0.2                                | 1.5                                | 0.1                                | 38.1                              | 3.28   | 63.9   | 3.6   |
|         | 233.4  | 234.2 | 8,526                              | 14,311               | 1,244                              | 3,569                              | 235                                | 39.3                               | 72.0                               | 5.8                                | 17.2                               | 1.6                                | 2.4                                | 0.2                                | 0.8                                | 0.1                                | 35.6                              | 2.81   | 65.5   | 4.7   |
|         | 234.2  | 235.2 | 3,870                              | 6,793                | 672                                | 1,930                              | 140                                | 25.2                               | 42.9                               | 3.3                                | 10.3                               | 1.0                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 1.35   | 34.1   | 9.7   |
|         | 235.2  | 236.2 | 3,589                              | 6,240                | 596                                | 1,715                              | 118                                | 19.7                               | 34.1                               | 2.9                                | 10.0                               | 1.1                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 1.24   | 26.7   | 8.7   |
|         | 236.2  | 237.2 | 4,175                              | 6,633                | 592                                | 1,639                              | 113                                | 20.0                               | 36.3                               | 2.8                                | 9.8                                | 1.2                                | 2.3                                | 0.2                                | 1.4                                | 0.2                                | 31.8                              | 1.33   | 22.7   | 12    |
|         | 237.2  | 238.2 | 3,237                              | 5,172                | 459                                | 1,277                              | 93                                 | 17.4                               | 31.9                               | 2.8                                | 10.2                               | 1.4                                | 3.5                                | 0.2                                | 1.6                                | 0.2                                | 38.1                              | 1.03   | 29.9   | 8.3   |
|         | 238.2  | 238.4 | 1,249                              | 2,365                | 220                                | 639                                | 53                                 | 10.5                               | 18.7                               | 1.7                                | 6.2                                | 0.9                                | 1.4                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 0.46   | 17.4   | 8.4   |
|         | 238.4  | 239.3 | 8,561                              | 13,820               | 1,250                              | 3,429                              | 230                                | 40.9                               | 70.5                               | 5.7                                | 17.2                               | 1.7                                | 2.9                                | 0.2                                | 1.1                                | 0.2                                | 41.9                              | 2.75   | 56.5   | 3.8   |
|         | 239.3  | 239.6 | 14,660                             | 23,155               | 2,235                              | 5,645                              | 371                                | 63.0                               | 107.8                              | 8.0                                | 23.4                               | 2.3                                | 3.7                                | 0.3                                | 1.6                                | 0.2                                | 53.3                              | 4.63   | 77.9   | 5.9   |
|         | 239.6  | 240.6 | 2,721                              | 4,459                | 406                                | 1,149                              | 75                                 | 13.0                               | 21.8                               | 1.6                                | 5.6                                | 0.6                                | 1.5                                | 0.2                                | 1.0                                | 0.1                                | 17.8                              | 0.89   | 18.4   | 8.9   |
|         | 240.6  | 241.6 | 8,608                              | 13,082               | 1,153                              | 3,126                              | 191                                | 33.1                               | 55.4                               | 4.2                                | 12.7                               | 1.3                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 29.2                              | 2.63   | 43.5   | 2.8   |
|         | 241.6  | 242.6 | 16,536                             | 25,428               | 2,169                              | 5,855                              | 355                                | 59.1                               | 102.6                              | 7.7                                | 22.5                               | 2.3                                | 3.7                                | 0.3                                | 1.4                                | 0.2                                | 53.3                              | 5.06   | 81.4   | 3.1   |
|         | 242.6  | 243.6 | 9,558                              | 15,109               | 1,359                              | 3,709                              | 241                                | 40.3                               | 67.9                               | 4.9                                | 15.0                               | 1.6                                | 3.2                                | 0.3                                | 1.6                                | 0.3                                | 39.4                              | 3.02   | 46     | 3.2   |
|         | 243.6  | 244.6 | 18,413                             | 26,656               | 2,416                              | 5,879                              | 354                                | 60.0                               | 105.1                              | 7.9                                | 22.0                               | 2.2                                | 3.4                                | 0.3                                | 1.3                                | 0.2                                | 49.5                              | 5.40   | 65.4   | 2.8   |
|         | 244.6  | 245.4 | 10,684                             | 16,522               | 1,516                              | 3,942                              | 239                                | 40.5                               | 67.1                               | 5.1                                | 13.8                               | 1.4                                | 2.3                                | 0.2                                | 0.7                                | 0.1                                | 30.5                              | 3.31   | 40.9   | 2.3   |
|         | 245.4  | 246.4 | 3,190                              | 5,282                | 478                                | 1,359                              | 94                                 | 17.5                               | 31.0                               | 2.6                                | 8.5                                | 0.9                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.05   | 22.9   | 2.6   |
|         | 246.4  | 247.4 | 2,287                              | 3,968                | 387                                | 1,201                              | 130                                | 28.1                               | 56.3                               | 5.1                                | 19.6                               | 2.5                                | 5.7                                | 0.6                                | 4.0                                | 0.6                                | 71.1                              | 0.82   | 44.7   | 3.8   |
|         | 247.4  | 248.4 | 2,780                              | 4,901                | 472                                | 1,452                              | 136                                | 28.5                               | 58.7                               | 5.8                                | 24.1                               | 3.4                                | 7.9                                | 0.9                                | 5.0                                | 0.6                                | 96.5                              | 1.00   | 38.9   | 10.2  |
|         | 248.4  | 249.4 | 1,360                              | 2,874                | 298                                | 988                                | 110                                | 26.5                               | 65.2                               | 8.1                                | 37.4                               | 5.1                                | 12.4                               | 1.3                                | 8.8                                | 1.1                                | 154.9                             | 0.60   | 92.2   | 14.4  |
|         | 249.4  | 250.0 | 2,580                              | 6,867                | 893                                | 3,324                              | 371                                | 68.9                               | 121.0                              | 8.9                                | 27.2                               | 2.8                                | 5.6                                | 0.5                                | 3.5                                | 0.5                                | 74.9                              | 1.43   | 128    | 7.1   |
|         | 250.0  | 251.0 | 2,967                              | 5,552                | 568                                | 1,779                              | 163                                | 32.4                               | 64.4                               | 6.1                                | 22.5                               | 3.3                                | 7.6                                | 0.8                                | 4.7                                | 0.6                                | 88.9                              | 1.13   | 66.1   | 8.3   |
|         | 251.0  | 252.0 | 1,976                              | 3,955                | 408                                | 1,324                              | 136                                | 28.5                               | 59.7                               | 6.3                                | 24.6                               | 3.4                                | 7.7                                | 0.8                                | 4.4                                | 0.6                                | 91.4                              | 0.80   | 56.4   | 9     |
|         | 252.0  | 253.0 | 1,011                              | 2,223                | 236                                | 797                                | 96                                 | 23.9                               | 54.1                               | 5.9                                | 25.4                               | 3.9                                | 8.5                                | 0.9                                | 5.1                                | 0.7                                | 99.1                              | 0.46   | 55.5   | 20.6  |
|         | 253.0  | 254.0 | 2,099                              | 3,906                | 398                                | 1,242                              | 119                                | 24.3                               | 47.5                               | 4.2                                | 17.2                               | 2.4                                | 5.3                                | 0.6                                | 3.2                                | 0.5                                | 61.0                              | 0.79   | 37.2   | 6.7   |
|         | 254.0  | 255.0 | 1,636                              | 3,550                | 377                                | 1,242                              | 128                                | 25.9                               | 52.8                               | 4.9                                | 18.7                               | 2.6                                | 5.8                                | 0.6                                | 3.5                                | 0.6                                | 66.0                              | 0.71   | 45.8   | 6.8   |
|         | 255.0  | 256.0 | 2,850                              | 5,761                | 622                                | 2,030                              | 181                                | 34.0                               | 60.5                               | 4.7                                | 17.0                               | 2.1                                | 4.6                                | 0.5                                | 2.9                                | 0.4                                | 52.1                              | 1.16   | 47.7   | 5.5   |
|         | 256.0  | 257.0 | 1,947                              | 4,103                | 441                                | 1,458                              | 143                                | 27.7                               | 49.6                               | 3.8                                | 13.4                               | 1.6                                | 3.2                                | 0.3                                | 2.1                                | 0.3                                | 39.4                              | 0.82   | 41.9   | 4.6   |
|         | 257.0  | 258.0 | 3,483                              | 6,719                | 732                                | 2,426                              | 224                                | 41.6                               | 74.6                               | 5.4                                | 16.9                               | 1.9                                | 4.1                                | 0.4                                | 2.2                                | 0.3                                | 48.3                              | 1.38   | 43.3   | 10.1  |
|         | 258.0  | 259.0 | 1,906                              | 3,648                | 370                                | 1,184                              | 121                                | 26.2                               | 52.9                               | 5.4                                | 22.2                               | 3.2                                | 7.0                                | 0.8                                | 4.4                                | 0.6                                | 85.1                              | 0.74   | 47.4   | 3.4   |
|         | 259.0  | 260.0 | 2,258                              | 4,373                | 449                                | 1,435                              | 136                                | 27.6                               | 56.7                               | 5.3                                | 21.1                               | 3.0                                | 6.9                                | 0.7                                | 3.9                                | 0.5                                | 80.0                              | 0.89   | 49.2   | 4.9   |
|         | 260.0  | 260.2 | 1,407                              | 2,838                | 285                                | 918                                | 88                                 | 17.6                               | 36.1                               | 3.3                                | 13.2                               | 1.9                                | 4.4                                | 0.4                                | 2.3                                | 0.2                                | 50.8                              | 0.57   | 23.3   | 6     |
|         | 260.2  | 261.2 | 2,340                              | 4,656                | 489                                | 1,598                              | 145                                | 27.0                               | 46.5                               | 3.2                                | 9.3                                | 1.1                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 26.7                              | 0.93   | 28.7   | 8.2   |
|         | 261.2  | 261.8 | 1,519                              | 3,673                | 391                                | 1,429                              | 143                                | 27.2                               | 47.7                               | 3.8                                | 13.0                               | 1.7                                | 3.4                                | 0.4                                | 2.3                                | 0.4                                | 41.9                              | 0.73   | 32.7   | 18.4  |
|         | 261.8  | 262.8 | 1,601                              | 3,685                | 371                                | 1,283                              | 124                                | 24.6                               | 48.6                               | 4.9                                | 20.9                               | 3.3                                | 7.0                                | 0.9                                | 4.8                                | 0.8                                | 87.6                              | 0.73   | 46     | 7.2   |

| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 262.8  | 263.8 | 1,460                              | 3,538                | 369                                | 1,312                              | 119                                | 24.1                               | 48.3                               | 4.6                                | 18.6                               | 2.8                                | 5.5                                | 0.7                                | 4.8                                | 0.6                                | 71.1                              | 0.70   | 38.7   | 4.9   |
|                 | 263.8  | 264.7 | 2,627                              | 5,086                | 504                                | 1,715                              | 158                                | 32.5                               | 65.6                               | 6.6                                | 26.2                               | 3.9                                | 8.1                                | 0.8                                | 4.9                                | 0.7                                | 104.1                             | 1.03   | 46.3   | 7     |
|                 | 264.7  | 265.4 | 1,712                              | 3,882                | 398                                | 1,411                              | 141                                | 29.1                               | 58.6                               | 6.0                                | 24.9                               | 3.7                                | 7.9                                | 0.9                                | 4.9                                | 0.7                                | 101.6                             | 0.78   | 70.3   | 7     |
|                 | 265.4  | 266.4 | 1,525                              | 3,624                | 382                                | 1,376                              | 148                                | 30.1                               | 61.7                               | 5.8                                | 23.9                               | 3.4                                | 7.0                                | 0.7                                | 4.6                                | 0.6                                | 88.9                              | 0.73   | 63.2   | 5     |
|                 | 266.4  | 267.3 | 2,592                              | 5,282                | 533                                | 1,802                              | 154                                | 27.8                               | 52.4                               | 5.0                                | 19.3                               | 2.9                                | 6.6                                | 0.7                                | 4.3                                | 0.6                                | 83.8                              | 1.06   | 40.8   | 5.5   |
|                 | 267.3  | 268.3 | 1,701                              | 3,648                | 361                                | 1,207                              | 104                                | 20.4                               | 39.4                               | 3.5                                | 15.2                               | 2.4                                | 5.4                                | 0.6                                | 3.6                                | 0.4                                | 64.8                              | 0.72   | 40.1   | 5     |
|                 | 268.3  | 269.3 | 1,460                              | 3,292                | 341                                | 1,207                              | 124                                | 26.1                               | 52.1                               | 5.1                                | 22.4                               | 3.3                                | 7.1                                | 0.8                                | 4.8                                | 0.6                                | 92.7                              | 0.66   | 46.8   | 5.3   |
|                 | 269.3  | 270.3 | 787                                | 1,824                | 193                                | 699                                | 81                                 | 18.4                               | 40.7                               | 4.6                                | 20.5                               | 3.4                                | 7.2                                | 0.8                                | 5.0                                | 0.8                                | 90.2                              | 0.38   | 43.6   | 6.6   |
|                 | 270.3  | 271.2 | 1,771                              | 3,833                | 371                                | 1,196                              | 91                                 | 16.0                               | 28.4                               | 2.6                                | 9.3                                | 1.4                                | 3.1                                | 0.4                                | 2.4                                | 0.4                                | 38.1                              | 0.74   | 28     | 3.3   |
|                 | 271.2  | 272.2 | 1,835                              | 4,226                | 447                                | 1,615                              | 153                                | 29.4                               | 56.0                               | 5.1                                | 20.2                               | 2.9                                | 6.5                                | 0.7                                | 4.3                                | 0.6                                | 82.5                              | 0.85   | 56.3   | 5.8   |
|                 | 272.2  | 272.8 | 2,909                              | 5,700                | 561                                | 1,843                              | 143                                | 24.7                               | 41.5                               | 3.1                                | 10.8                               | 1.4                                | 2.9                                | 0.3                                | 2.1                                | 0.4                                | 36.8                              | 1.13   | 36     | 5.2   |
|                 | 272.8  | 273.2 | 1,783                              | 4,140                | 434                                | 1,557                              | 154                                | 30.2                               | 57.8                               | 5.1                                | 20.0                               | 3.0                                | 6.8                                | 0.7                                | 4.3                                | 0.7                                | 83.8                              | 0.83   | 49.2   | 5.2   |
|                 | 273.2  | 274.2 | 2,076                              | 4,287                | 429                                | 1,464                              | 126                                | 23.0                               | 40.5                               | 3.5                                | 13.2                               | 1.9                                | 4.1                                | 0.5                                | 3.0                                | 0.5                                | 54.6                              | 0.85   | 39.9   | 4.5   |
|                 | 274.2  | 275.2 | 1,302                              | 3,157                | 342                                | 1,260                              | 139                                | 29.1                               | 55.6                               | 4.9                                | 20.4                               | 2.9                                | 6.5                                | 0.8                                | 5.0                                | 1.0                                | 87.6                              | 0.64   | 58.4   | 3     |
|                 | 275.2  | 276.2 | 3,190                              | 6,056                | 614                                | 2,164                              | 253                                | 52.2                               | 98.4                               | 8.8                                | 32.4                               | 4.5                                | 9.3                                | 0.9                                | 4.9                                | 0.7                                | 124.5                             | 1.26   | 66.1   | 3.5   |
|                 | 276.2  | 277.2 | 2,815                              | 5,700                | 584                                | 2,041                              | 205                                | 41.0                               | 76.9                               | 6.8                                | 25.0                               | 3.5                                | 7.2                                | 0.9                                | 5.0                                | 0.7                                | 105.4                             | 1.16   | 82.9   | 4.9   |
|                 | 277.2  | 278.0 | 2,234                              | 4,840                | 521                                | 1,890                              | 212                                | 44.6                               | 82.2                               | 7.9                                | 29.7                               | 4.2                                | 9.0                                | 1.0                                | 5.4                                | 0.7                                | 124.5                             | 1.00   | 78.2   | 5     |
|                 | 278.0  | 278.4 | 3,905                              | 7,604                | 784                                | 2,729                              | 261                                | 50.7                               | 90.5                               | 7.6                                | 27.3                               | 3.8                                | 7.6                                | 0.7                                | 4.2                                | 0.4                                | 104.1                             | 1.56   | 72.8   | 4.3   |
|                 | 278.4  | 279.4 | 2,651                              | 5,810                | 645                                | 2,461                              | 282                                | 58.0                               | 100.1                              | 7.1                                | 23.3                               | 2.9                                | 5.7                                | 0.5                                | 2.7                                | 0.3                                | 80.0                              | 1.21   | 61.2   | 5.9   |
|                 | 279.4  | 280.4 | 2,070                              | 4,754                | 529                                | 2,059                              | 245                                | 51.5                               | 92.7                               | 7.7                                | 26.9                               | 3.4                                | 7.2                                | 0.8                                | 4.8                                | 0.6                                | 100.3                             | 1.00   | 68.5   | 6.3   |
|                 | 280.4  | 281.4 | 1,431                              | 3,366                | 355                                | 1,306                              | 150                                | 33.1                               | 64.2                               | 5.9                                | 24.1                               | 3.3                                | 7.1                                | 0.9                                | 5.8                                | 0.9                                | 100.3                             | 0.69   | 91.6   | 4.4   |
|                 | 281.4  | 281.9 | 1,560                              | 3,624                | 377                                | 1,353                              | 151                                | 33.1                               | 67.1                               | 6.6                                | 28.0                               | 4.4                                | 9.5                                | 1.1                                | 6.3                                | 1.0                                | 124.5                             | 0.73   | 99.5   | 5.8   |
|                 | 281.9  | 282.9 | 1,290                              | 3,034                | 319                                | 1,184                              | 153                                | 36.6                               | 79.5                               | 9.4                                | 41.1                               | 7.0                                | 17.3                               | 2.0                                | 12.2                               | 1.8                                | 212.1                             | 0.64   | 108    | 6.6   |
|                 | 282.9  | 283.4 | 1,308                              | 3,034                | 321                                | 1,144                              | 130                                | 29.5                               | 58.4                               | 6.3                                | 26.2                               | 4.0                                | 9.4                                | 1.1                                | 6.6                                | 1.0                                | 123.2                             | 0.62   | 86.6   | 4.7   |
|                 | 283.4  | 284.3 | 1,220                              | 2,985                | 327                                | 1,231                              | 152                                | 34.3                               | 65.8                               | 6.3                                | 25.3                               | 4.0                                | 9.2                                | 1.1                                | 7.0                                | 1.0                                | 120.6                             | 0.62   | 101.5  | 4.7   |
|                 | 284.3  | 285.3 | 1,372                              | 3,280                | 347                                | 1,306                              | 172                                | 40.4                               | 79.3                               | 7.7                                | 31.5                               | 4.6                                | 9.8                                | 1.1                                | 7.0                                | 0.9                                | 138.4                             | 0.68   | 114.5  | 4.2   |
|                 | 285.3  | 286.0 | 1,129                              | 2,690                | 288                                | 1,098                              | 154                                | 35.8                               | 73.0                               | 7.4                                | 29.0                               | 4.3                                | 9.4                                | 1.1                                | 7.1                                | 1.0                                | 132.1                             | 0.57   | 119.5  | 3.1   |
|                 | 286.0  | 286.5 | 1,185                              | 2,862                | 312                                | 1,190                              | 158                                | 35.2                               | 67.4                               | 6.0                                | 23.1                               | 3.5                                | 7.9                                | 0.9                                | 5.9                                | 0.9                                | 105.4                             | 0.60   | 97.1   | 3.8   |
|                 | 286.5  | 287.3 | 1,337                              | 3,034                | 348                                | 1,242                              | 172                                | 42.2                               | 98.1                               | 9.9                                | 47.2                               | 6.4                                | 14.9                               | 1.6                                | 9.7                                | 1.5                                | 204.5                             | 0.66   | 121.5  | 7.7   |
|                 | 287.3  | 288.1 | 2,111                              | 4,078                | 448                                | 1,551                              | 194                                | 40.9                               | 84.5                               | 7.9                                | 35.4                               | 5.1                                | 10.8                               | 1.2                                | 7.9                                | 1.1                                | 151.1                             | 0.87   | 118    | 6.1   |
|                 | 288.1  | 289.1 | 1,349                              | 3,513                | 451                                | 1,709                              | 219                                | 44.9                               | 90.4                               | 8.3                                | 32.0                               | 4.4                                | 10.2                               | 1.2                                | 7.9                                | 1.2                                | 129.5                             | 0.76   | 112    | 4     |
|                 | 289.1  | 289.8 | 1,033                              | 2,254                | 260                                | 946                                | 130                                | 29.0                               | 60.3                               | 4.5                                | 15.8                               | 2.2                                | 6.0                                | 0.7                                | 4.7                                | 0.7                                | 63.5                              | 0.48   | 94.7   | 5     |
|                 | 289.8  | 290.8 | 1,003                              | 2,217                | 260                                | 954                                | 136                                | 32.9                               | 76.5                               | 8.1                                | 34.0                               | 4.9                                | 11.7                               | 1.4                                | 8.8                                | 1.6                                | 147.3                             | 0.49   | 160    | 3.7   |
|                 | 290.8  | 291.4 | 823                                | 1,916                | 229                                | 871                                | 126                                | 27.3                               | 54.3                               | 4.5                                | 16.8                               | 2.4                                | 5.5                                | 0.7                                | 4.8                                | 0.7                                | 73.7                              | 0.42   | 85.9   | 2.8   |
|                 | 291.4  | 292.6 | 1,196                              | 2,567                | 289                                | 1,040                              | 148                                | 35.7                               | 83.6                               | 9.4                                | 46.9                               | 7.2                                | 18.3                               | 2.3                                | 15.1                               | 2.4                                | 227.3                             | 0.57   | 105.5  | 8.3   |
|                 | 292.6  | 293.4 | 1,173                              | 2,616                | 308                                | 1,122                              | 151                                | 31.7                               | 60.7                               | 5.0                                | 18.4                               | 2.4                                | 5.5                                | 0.6                                | 4.6                                | 0.7                                | 71.1                              | 0.56   | 70.7   | 2.4   |
| <b>KGKRC017</b> | 0.0    | 1.0   | 3,178                              | 7,542                | 855                                | 2,939                              | 264                                | 46.7                               | 78.4                               | 5.5                                | 14.0                               | 1.7                                | 3.0                                | 0.3                                | 1.5                                | 0.2                                | 36.8                              | 1.50   | 49.3   | 6.1   |
|                 | 1.0    | 2.0   | 1,947                              | 4,447                | 495                                | 1,726                              | 160                                | 30.2                               | 57.8                               | 5.0                                | 16.9                               | 2.1                                | 4.4                                | 0.5                                | 3.0                                | 0.4                                | 61.0                              | 0.90   | 38.4   | 6.7   |
|                 | 2.0    | 3.0   | 787                                | 1,720                | 202                                | 695                                | 55                                 | 9.2                                | 15.4                               | 1.3                                | 4.5                                | 0.6                                | 1.1                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 0.35   | 12.8   | 7.2   |
|                 | 3.0    | 4.0   | 1,894                              | 4,373                | 482                                | 1,627                              | 128                                | 21.3                               | 35.5                               | 2.5                                | 8.0                                | 0.9                                | 1.6                                | 0.2                                | 0.8                                | 0.2                                | 24.1                              | 0.86   | 24.7   | 28.4  |
|                 | 4.0    | 5.0   | 1,431                              | 3,378                | 372                                | 1,271                              | 104                                | 17.5                               | 29.4                               | 2.0                                | 6.3                                | 0.7                                | 1.4                                | 0.1                                | 0.7                                | 0.2                                | 17.8                              | 0.66   | 20.8   | 28.6  |
|                 | 5.0    | 6.0   | 2,105                              | 5,319                | 616                                | 2,205                              | 203                                | 33.8                               | 57.9                               | 4.4                                | 11.7                               | 1.3                                | 2.2                                | 0.2                                | 1.5                                | 0.2                                | 27.9                              | 1.06   | 44     | 6.9   |
|                 | 6.0    | 7.0   | 1,349                              | 3,194                | 364                                | 1,283                              | 111                                | 18.1                               | 33.1                               | 2.5                                | 7.4                                | 0.8                                | 1.1                                | 0.2                                | 0.8                                | 0.2                                | 21.6                              | 0.64   | 28.7   | 13    |
|                 | 7.0    | 8.0   | 3,589                              | 7,518                | 830                                | 2,799                              | 212                                | 34.5                               | 57.6                               | 4.4                                | 12.2                               | 1.2                                | 2.1                                | 0.2                                | 1.1                                | 0.1                                | 27.9                              | 1.51   | 43.5   | 11    |
|                 | 8.0    | 9.0   | 2,697                              | 6,019                | 661                                | 2,245                              | 197                                | 34.6                               | 63.2                               | 4.4                                | 12.6                               | 1.4                                | 2.3                                | 0.3                                | 1.6                                | 0.2                                | 34.3                              | 1.20   | 49.5   | 3.9   |
|                 | 9.0    | 10.0  | 2,105                              | 4,680                | 506                                | 1,715                              | 144                                | 25.5                               | 41.5                               | 3.4                                | 10.3                               | 1.1                                | 2.1                                | 0.2                                | 1.1                                | 0.1                                | 22.9                              | 0.93   | 28.9   | 8.4   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 10.0   | 11.0 | 1,054                              | 2,156                | 248                                | 835                                | 71                                 | 11.7                               | 20.5                               | 1.6                                | 5.2                                | 0.6                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 14.0                              | 0.44   | 14.4   | 10.6  |
|         | 11.0   | 12.0 | 2,000                              | 5,049                | 598                                | 2,274                              | 233                                | 39.0                               | 67.8                               | 5.2                                | 15.0                               | 1.6                                | 2.5                                | 0.3                                | 1.8                                | 0.2                                | 36.8                              | 1.03   | 58.9   | 5.5   |
|         | 12.0   | 13.0 | 1,507                              | 3,710                | 442                                | 1,633                              | 162                                | 27.7                               | 50.9                               | 4.0                                | 10.9                               | 1.3                                | 2.1                                | 0.3                                | 2.1                                | 0.3                                | 33.0                              | 0.76   | 50.9   | 6.8   |
|         | 13.0   | 14.0 | 1,871                              | 4,275                | 472                                | 1,615                              | 148                                | 26.4                               | 47.6                               | 3.8                                | 11.8                               | 1.3                                | 2.6                                | 0.2                                | 1.6                                | 0.2                                | 31.8                              | 0.85   | 38.1   | 6.7   |
|         | 14.0   | 15.0 | 2,123                              | 5,430                | 657                                | 2,473                              | 242                                | 38.4                               | 65.8                               | 4.5                                | 12.3                               | 1.3                                | 1.8                                | 0.2                                | 0.9                                | 0.2                                | 27.9                              | 1.11   | 58.7   | 5.9   |
|         | 15.0   | 16.0 | 2,357                              | 5,319                | 586                                | 2,012                              | 179                                | 30.7                               | 49.7                               | 3.5                                | 9.9                                | 1.0                                | 1.6                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 1.06   | 37.5   | 5.8   |
|         | 16.0   | 17.0 | 4,703                              | 8,881                | 925                                | 2,998                              | 237                                | 41.0                               | 69.5                               | 5.5                                | 16.6                               | 1.6                                | 2.6                                | 0.2                                | 1.5                                | 0.2                                | 39.4                              | 1.79   | 57.3   | 4.3   |
|         | 17.0   | 18.0 | 4,914                              | 9,078                | 906                                | 2,869                              | 208                                | 34.6                               | 56.4                               | 4.1                                | 12.1                               | 1.3                                | 2.4                                | 0.2                                | 0.9                                | 0.2                                | 29.2                              | 1.81   | 40.1   | 6.6   |
|         | 18.0   | 19.0 | 4,703                              | 8,881                | 916                                | 2,963                              | 223                                | 36.6                               | 60.9                               | 4.6                                | 13.8                               | 1.5                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 33.0                              | 1.78   | 47.2   | 9.7   |
|         | 19.0   | 20.0 | 5,700                              | 10,749               | 1,122                              | 3,616                              | 282                                | 47.6                               | 81.1                               | 6.1                                | 18.3                               | 1.9                                | 3.3                                | 0.3                                | 1.7                                | 0.3                                | 45.7                              | 2.17   | 56.6   | 8.4   |
|         | 20.0   | 21.0 | 2,299                              | 5,061                | 546                                | 1,796                              | 146                                | 25.7                               | 44.6                               | 3.7                                | 10.9                               | 1.2                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 27.9                              | 1.00   | 31     | 7.2   |
|         | 21.0   | 22.0 | 3,225                              | 6,683                | 730                                | 2,508                              | 227                                | 42.2                               | 74.6                               | 6.1                                | 18.9                               | 2.5                                | 4.2                                | 0.5                                | 3.1                                | 0.5                                | 53.3                              | 1.36   | 63.3   | 15.3  |
|         | 22.0   | 23.0 | 2,340                              | 5,773                | 684                                | 2,496                              | 248                                | 45.4                               | 80.1                               | 7.0                                | 21.5                               | 2.7                                | 4.6                                | 0.6                                | 3.9                                | 0.6                                | 67.3                              | 1.18   | 69.4   | 11.9  |
|         | 23.0   | 24.0 | 1,507                              | 3,636                | 406                                | 1,400                              | 127                                | 22.6                               | 37.9                               | 3.1                                | 9.0                                | 1.0                                | 2.2                                | 0.3                                | 1.6                                | 0.3                                | 27.9                              | 0.72   | 30.9   | 18.4  |
|         | 24.0   | 25.0 | 3,425                              | 7,739                | 888                                | 2,963                              | 249                                | 43.9                               | 73.5                               | 5.0                                | 14.7                               | 1.4                                | 2.2                                | 0.3                                | 1.1                                | 0.3                                | 29.2                              | 1.54   | 43.4   | 5.3   |
|         | 25.0   | 26.0 | 2,627                              | 5,859                | 639                                | 2,070                              | 173                                | 31.3                               | 55.7                               | 3.9                                | 12.9                               | 1.4                                | 1.7                                | 0.2                                | 1.1                                | 0.2                                | 27.9                              | 1.15   | 37.3   | 5.2   |
|         | 26.0   | 27.0 | 4,855                              | 10,355               | 1,199                              | 4,001                              | 355                                | 63.8                               | 105.6                              | 6.8                                | 20.5                               | 2.0                                | 4.0                                | 0.3                                | 1.9                                | 0.2                                | 48.3                              | 2.10   | 63.6   | 6.3   |
|         | 27.0   | 28.0 | 2,234                              | 4,975                | 552                                | 1,761                              | 142                                | 26.3                               | 46.1                               | 3.5                                | 10.3                               | 1.0                                | 1.7                                | 0.2                                | 1.1                                | 0.1                                | 25.4                              | 0.98   | 28.8   | 6.2   |
|         | 28.0   | 29.0 | 2,152                              | 4,901                | 555                                | 1,860                              | 168                                | 29.4                               | 52.3                               | 3.6                                | 11.4                               | 1.2                                | 1.9                                | 0.2                                | 1.4                                | 0.2                                | 27.9                              | 0.98   | 37.8   | 7     |
|         | 29.0   | 30.0 | 6,697                              | 13,328               | 1,522                              | 4,969                              | 434                                | 78.6                               | 137.2                              | 9.1                                | 24.0                               | 1.8                                | 3.1                                | 0.2                                | 1.3                                | 0.2                                | 41.9                              | 2.72   | 114    | 2.9   |
|         | 30.0   | 31.0 | 4,480                              | 8,685                | 933                                | 2,904                              | 232                                | 40.8                               | 70.9                               | 5.2                                | 16.3                               | 1.7                                | 2.7                                | 0.2                                | 1.8                                | 0.3                                | 38.1                              | 1.74   | 53.7   | 8.9   |
|         | 31.0   | 32.0 | 5,172                              | 10,405               | 1,126                              | 3,511                              | 270                                | 48.4                               | 83.7                               | 5.9                                | 18.7                               | 2.0                                | 3.8                                | 0.4                                | 2.5                                | 0.5                                | 49.5                              | 2.07   | 55.9   | 10.4  |
|         | 32.0   | 33.0 | 2,393                              | 5,761                | 649                                | 2,140                              | 171                                | 32.0                               | 52.4                               | 4.0                                | 11.7                               | 1.0                                | 2.1                                | 0.2                                | 1.4                                | 0.1                                | 26.7                              | 1.12   | 40.1   | 6.3   |
|         | 33.0   | 34.0 | 1,660                              | 4,140                | 492                                | 1,656                              | 135                                | 24.0                               | 40.3                               | 3.2                                | 10.6                               | 1.0                                | 1.9                                | 0.2                                | 0.7                                | 0.2                                | 24.1                              | 0.82   | 27.5   | 7.9   |
|         | 34.0   | 35.0 | 3,847                              | 8,648                | 921                                | 3,126                              | 268                                | 49.1                               | 80.0                               | 5.6                                | 15.5                               | 1.4                                | 2.5                                | 0.2                                | 1.3                                | 0.1                                | 31.8                              | 1.70   | 52.1   | 5.5   |
|         | 35.0   | 36.0 | 4,808                              | 10,712               | 1,141                              | 3,907                              | 313                                | 54.5                               | 98.0                               | 7.1                                | 18.4                               | 1.8                                | 2.9                                | 0.3                                | 1.1                                | 0.2                                | 40.6                              | 2.11   | 76     | 10.4  |
|         | 36.0   | 37.0 | 4,152                              | 9,373                | 988                                | 3,418                              | 305                                | 52.8                               | 86.8                               | 6.0                                | 15.5                               | 1.4                                | 2.5                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 1.84   | 46.6   | 7.4   |
|         | 37.0   | 38.0 | 3,647                              | 8,795                | 980                                | 3,488                              | 306                                | 53.3                               | 85.5                               | 5.5                                | 14.0                               | 1.4                                | 2.4                                | 0.3                                | 1.4                                | 0.2                                | 30.5                              | 1.74   | 46.6   | 25    |
|         | 38.0   | 39.0 | 2,299                              | 5,700                | 613                                | 2,047                              | 161                                | 30.6                               | 54.4                               | 3.9                                | 13.4                               | 1.9                                | 4.2                                | 0.6                                | 3.3                                | 0.4                                | 48.3                              | 1.10   | 58.7   | 37.2  |
|         | 39.0   | 40.0 | 1,002                              | 2,340                | 262                                | 876                                | 59                                 | 10.5                               | 19.4                               | 1.9                                | 10.1                               | 1.7                                | 5.5                                | 0.6                                | 4.9                                | 0.8                                | 54.6                              | 0.46   | 34.8   | 3.3   |
|         | 40.0   | 41.0 | 5,395                              | 12,100               | 1,293                              | 4,211                              | 275                                | 43.2                               | 69.7                               | 5.1                                | 16.2                               | 2.1                                | 5.3                                | 0.6                                | 5.1                                | 0.8                                | 69.8                              | 2.35   | 57.8   | 4.8   |
|         | 41.0   | 42.0 | 17,533                             | 31,447               | 2,888                              | 8,491                              | 532                                | 87.5                               | 145.2                              | 10.8                               | 30.3                               | 3.2                                | 5.5                                | 0.4                                | 2.4                                | 0.3                                | 74.9                              | 6.13   | 91.8   | 9.4   |
|         | 42.0   | 43.0 | 23,221                             | 38,817               | 3,600                              | 9,856                              | 644                                | 107.6                              | 181.0                              | 12.7                               | 35.7                               | 3.8                                | 6.0                                | 0.4                                | 2.1                                | 0.3                                | 86.4                              | 7.66   | 101.5  | 10.2  |
|         | 43.0   | 44.0 | 18,002                             | 30,710               | 2,815                              | 8,305                              | 542                                | 90.2                               | 144.7                              | 10.8                               | 29.4                               | 2.8                                | 4.0                                | 0.3                                | 1.7                                | 0.2                                | 63.5                              | 6.07   | 82.4   | 7.7   |
|         | 44.0   | 45.0 | 14,074                             | 27,025               | 2,646                              | 8,130                              | 543                                | 90.0                               | 151.0                              | 10.7                               | 29.3                               | 2.7                                | 4.1                                | 0.3                                | 1.5                                | 0.2                                | 64.8                              | 5.28   | 93.5   | 5.1   |
|         | 45.0   | 46.0 | 13,546                             | 27,393               | 2,658                              | 7,920                              | 491                                | 78.2                               | 126.8                              | 9.1                                | 24.2                               | 2.6                                | 4.2                                | 0.4                                | 1.6                                | 0.2                                | 63.5                              | 5.23   | 75.2   | 4.1   |
|         | 46.0   | 47.0 | 10,966                             | 22,418               | 2,314                              | 6,963                              | 504                                | 84.4                               | 138.3                              | 9.5                                | 22.2                               | 2.6                                | 3.5                                | 0.4                                | 1.5                                | 0.3                                | 52.1                              | 4.35   | 82     | 3.5   |
|         | 47.0   | 48.0 | 5,794                              | 12,124               | 1,305                              | 4,211                              | 348                                | 59.9                               | 103.5                              | 6.8                                | 18.1                               | 1.7                                | 3.5                                | 0.3                                | 1.6                                | 0.2                                | 43.2                              | 2.40   | 67.1   | 5.1   |
|         | 48.0   | 49.0 | 3,659                              | 7,849                | 842                                | 2,741                              | 267                                | 51.2                               | 95.2                               | 7.5                                | 24.0                               | 3.2                                | 6.8                                | 0.9                                | 4.3                                | 0.6                                | 87.6                              | 1.56   | 61.8   | 6.7   |
|         | 49.0   | 50.0 | 8,292                              | 17,136               | 1,770                              | 5,307                              | 395                                | 69.2                               | 117.6                              | 8.4                                | 22.5                               | 2.3                                | 3.7                                | 0.3                                | 1.4                                | 0.3                                | 53.3                              | 3.32   | 76     | 3.6   |
|         | 50.0   | 51.0 | 7,506                              | 15,601               | 1,649                              | 5,167                              | 429                                | 76.3                               | 125.1                              | 8.7                                | 25.1                               | 2.3                                | 4.0                                | 0.4                                | 2.4                                | 0.3                                | 57.2                              | 3.07   | 81.4   | 4.4   |
|         | 51.0   | 52.0 | 5,137                              | 9,987                | 1,003                              | 3,103                              | 253                                | 42.6                               | 79.5                               | 6.1                                | 19.3                               | 2.7                                | 4.6                                | 0.6                                | 2.6                                | 0.5                                | 63.5                              | 1.97   | 51.8   | 4.7   |
|         | 52.0   | 53.0 | 3,788                              | 8,316                | 905                                | 2,951                              | 262                                | 45.0                               | 79.8                               | 5.6                                | 14.7                               | 1.7                                | 2.7                                | 0.3                                | 1.6                                | 0.2                                | 36.8                              | 1.64   | 52.9   | 8.5   |
|         | 53.0   | 54.0 | 3,800                              | 8,562                | 954                                | 3,196                              | 299                                | 53.0                               | 93.6                               | 6.3                                | 17.6                               | 2.1                                | 3.9                                | 0.4                                | 2.3                                | 0.2                                | 49.5                              | 1.70   | 58.1   | 6.1   |
|         | 54.0   | 55.0 | 2,568                              | 6,289                | 709                                | 2,356                              | 211                                | 36.5                               | 62.5                               | 4.3                                | 11.3                               | 1.2                                | 2.4                                | 0.3                                | 1.5                                | 0.3                                | 29.2                              | 1.23   | 35.4   | 5.2   |
|         | 55.0   | 56.0 | 2,979                              | 7,026                | 773                                | 2,578                              | 254                                | 45.2                               | 80.1                               | 5.5                                | 14.5                               | 1.5                                | 2.7                                | 0.3                                | 1.6                                | 0.2                                | 36.8                              | 1.38   | 46.4   | 6     |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 56.0   | 57.0  | 2,334                              | 5,319                | 574                                | 1,960                              | 192                                | 35.9                               | 66.9                               | 4.8                                | 14.6                               | 1.9                                | 3.4                                | 0.3                                | 2.6                                | 0.5                                | 44.5                              | 1.06   | 47.6   | 4.4   |
|         | 57.0   | 58.0  | 3,319                              | 7,739                | 851                                | 2,811                              | 248                                | 44.1                               | 73.4                               | 4.9                                | 13.8                               | 1.6                                | 3.3                                | 0.3                                | 1.7                                | 0.3                                | 38.1                              | 1.51   | 41.7   | 5.7   |
|         | 58.0   | 59.0  | 746                                | 1,701                | 195                                | 638                                | 54                                 | 8.8                                | 15.3                               | 1.1                                | 3.3                                | 0.3                                | 0.8                                | 0.1                                | 0.6                                | 0.1                                | 10.2                              | 0.34   | 10     | 10.5  |
|         | 59.0   | 60.0  | 2,211                              | 5,147                | 547                                | 1,785                              | 161                                | 29.6                               | 54.1                               | 4.2                                | 13.3                               | 1.7                                | 3.4                                | 0.5                                | 1.8                                | 0.2                                | 43.2                              | 1.00   | 31.7   | 6.3   |
|         | 60.0   | 61.0  | 1,923                              | 4,545                | 488                                | 1,621                              | 154                                | 31.2                               | 62.7                               | 5.2                                | 18.6                               | 2.8                                | 5.8                                | 0.7                                | 3.3                                | 0.4                                | 68.6                              | 0.89   | 38.6   | 9.5   |
|         | 61.0   | 62.0  | 3,225                              | 7,014                | 718                                | 2,228                              | 180                                | 30.0                               | 53.3                               | 3.7                                | 10.6                               | 1.3                                | 2.3                                | 0.3                                | 1.4                                | 0.3                                | 33.0                              | 1.35   | 26.8   | 2.8   |
|         | 62.0   | 63.0  | 2,756                              | 6,388                | 683                                | 2,274                              | 214                                | 37.3                               | 65.8                               | 4.6                                | 13.9                               | 1.7                                | 3.2                                | 0.4                                | 1.7                                | 0.3                                | 41.9                              | 1.25   | 40.9   | 7.7   |
|         | 63.0   | 64.0  | 3,096                              | 6,990                | 744                                | 2,414                              | 219                                | 38.8                               | 68.8                               | 4.7                                | 11.4                               | 1.6                                | 2.7                                | 0.3                                | 1.3                                | 0.2                                | 31.8                              | 1.36   | 35.6   | 6     |
|         | 64.0   | 65.0  | 4,926                              | 10,724               | 1,153                              | 3,756                              | 320                                | 53.3                               | 89.2                               | 5.9                                | 15.8                               | 1.9                                | 3.3                                | 0.3                                | 1.9                                | 0.2                                | 41.9                              | 2.11   | 52.2   | 6.7   |
|         | 65.0   | 66.0  | 5,137                              | 10,884               | 1,184                              | 3,872                              | 322                                | 54.2                               | 85.8                               | 5.1                                | 13.9                               | 1.4                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 29.2                              | 2.16   | 43.2   | 6.9   |
|         | 66.0   | 67.0  | 3,342                              | 7,456                | 807                                | 2,694                              | 239                                | 41.2                               | 70.7                               | 4.4                                | 11.9                               | 1.3                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 26.7                              | 1.47   | 34.4   | 6.6   |
|         | 67.0   | 68.0  | 3,507                              | 7,420                | 782                                | 2,473                              | 208                                | 35.0                               | 60.2                               | 4.1                                | 12.4                               | 1.5                                | 2.5                                | 0.4                                | 1.7                                | 0.3                                | 36.8                              | 1.45   | 36.3   | 7.2   |
|         | 68.0   | 69.0  | 4,984                              | 10,147               | 1,029                              | 3,208                              | 242                                | 38.3                               | 63.1                               | 3.9                                | 12.6                               | 1.4                                | 2.1                                | 0.3                                | 1.4                                | 0.3                                | 33.0                              | 1.98   | 34.4   | 6.3   |
|         | 69.0   | 70.0  | 4,597                              | 9,262                | 974                                | 3,068                              | 252                                | 41.6                               | 71.5                               | 4.8                                | 14.2                               | 1.7                                | 3.2                                | 0.3                                | 1.8                                | 0.2                                | 36.8                              | 1.83   | 37.4   | 5.7   |
|         | 70.0   | 71.0  | 2,580                              | 5,761                | 625                                | 2,047                              | 183                                | 32.5                               | 57.5                               | 3.8                                | 12.9                               | 1.8                                | 3.7                                | 0.4                                | 3.2                                | 0.5                                | 49.5                              | 1.14   | 30.6   | 5.9   |
|         | 71.0   | 72.0  | 3,413                              | 7,100                | 724                                | 2,216                              | 177                                | 30.1                               | 53.1                               | 3.7                                | 11.9                               | 1.5                                | 3.2                                | 0.4                                | 2.2                                | 0.4                                | 40.6                              | 1.38   | 31.3   | 7.4   |
|         | 72.0   | 73.0  | 4,410                              | 8,832                | 917                                | 2,916                              | 226                                | 38.7                               | 64.1                               | 4.5                                | 13.9                               | 1.6                                | 2.5                                | 0.3                                | 1.3                                | 0.3                                | 36.8                              | 1.75   | 41.8   | 6     |
|         | 73.0   | 74.0  | 2,662                              | 5,786                | 616                                | 2,012                              | 201                                | 37.5                               | 65.4                               | 5.0                                | 17.0                               | 2.4                                | 4.9                                | 0.7                                | 3.8                                | 0.6                                | 61.0                              | 1.15   | 50.7   | 6.8   |
|         | 74.0   | 75.0  | 2,850                              | 6,449                | 691                                | 2,222                              | 210                                | 38.4                               | 70.7                               | 5.2                                | 16.1                               | 2.1                                | 3.7                                | 0.6                                | 3.3                                | 0.6                                | 59.7                              | 1.26   | 44.6   | 6.3   |
|         | 75.0   | 76.0  | 2,252                              | 4,901                | 549                                | 2,059                              | 217                                | 40.2                               | 74.2                               | 5.5                                | 18.6                               | 2.5                                | 5.3                                | 0.7                                | 4.2                                | 0.5                                | 72.4                              | 1.02   | 56.1   | 4.2   |
|         | 76.0   | 77.0  | 4,011                              | 8,353                | 871                                | 2,858                              | 196                                | 31.0                               | 47.4                               | 3.1                                | 10.1                               | 1.3                                | 2.6                                | 0.3                                | 1.7                                | 0.2                                | 31.8                              | 1.64   | 24.4   | 3.8   |
|         | 77.0   | 78.0  | 2,357                              | 5,184                | 563                                | 1,913                              | 132                                | 20.5                               | 31.6                               | 2.0                                | 6.5                                | 0.9                                | 1.8                                | 0.2                                | 1.3                                | 0.2                                | 22.9                              | 1.02   | 14.2   | 3.6   |
|         | 78.0   | 79.0  | 2,709                              | 6,425                | 741                                | 2,636                              | 220                                | 36.5                               | 62.2                               | 4.3                                | 13.8                               | 1.8                                | 4.0                                | 0.4                                | 2.3                                | 0.3                                | 43.2                              | 1.29   | 30.1   | 4.7   |
|         | 79.0   | 80.0  | 2,340                              | 5,307                | 603                                | 2,228                              | 224                                | 43.9                               | 86.9                               | 7.2                                | 27.8                               | 4.1                                | 9.5                                | 1.0                                | 5.9                                | 0.8                                | 116.8                             | 1.10   | 44.1   | 9.2   |
|         | 80.0   | 81.0  | 2,580                              | 6,007                | 701                                | 2,601                              | 253                                | 47.9                               | 89.8                               | 7.3                                | 26.4                               | 3.9                                | 8.6                                | 0.9                                | 5.0                                | 0.7                                | 106.7                             | 1.24   | 49.7   | 9.2   |
|         | 81.0   | 82.0  | 2,181                              | 4,643                | 503                                | 1,802                              | 183                                | 38.0                               | 79.9                               | 7.2                                | 27.7                               | 4.1                                | 9.0                                | 1.0                                | 5.7                                | 0.7                                | 109.2                             | 0.96   | 33.9   | 5.4   |
|         | 82.0   | 83.0  | 2,991                              | 5,921                | 611                                | 2,065                              | 176                                | 32.1                               | 58.4                               | 4.2                                | 13.5                               | 1.8                                | 3.8                                | 0.4                                | 2.7                                | 0.4                                | 44.5                              | 1.19   | 21.1   | 3.4   |
|         | 83.0   | 84.0  | 4,808                              | 9,385                | 965                                | 3,254                              | 289                                | 54.5                               | 99.7                               | 7.2                                | 23.3                               | 2.8                                | 5.3                                | 0.6                                | 3.5                                | 0.4                                | 73.7                              | 1.90   | 48.2   | 5.7   |
|         | 84.0   | 85.0  | 3,436                              | 6,633                | 685                                | 2,333                              | 211                                | 40.2                               | 77.5                               | 6.1                                | 23.3                               | 3.4                                | 7.6                                | 1.0                                | 6.5                                | 0.9                                | 101.6                             | 1.36   | 34.9   | 5.7   |
|         | 85.0   | 86.0  | 1,912                              | 3,906                | 411                                | 1,429                              | 140                                | 26.6                               | 50.4                               | 3.9                                | 15.4                               | 2.3                                | 5.3                                | 0.6                                | 4.3                                | 0.6                                | 67.3                              | 0.80   | 23.8   | 6.1   |
|         | 86.0   | 87.0  | 2,088                              | 4,115                | 422                                | 1,435                              | 135                                | 29.1                               | 61.8                               | 6.2                                | 22.7                               | 3.2                                | 7.1                                | 0.8                                | 5.6                                | 0.8                                | 92.7                              | 0.84   | 49.5   | 7.7   |
|         | 87.0   | 88.0  | 2,264                              | 4,496                | 463                                | 1,557                              | 137                                | 26.9                               | 56.8                               | 5.9                                | 22.5                               | 2.9                                | 6.1                                | 0.7                                | 5.0                                | 0.7                                | 83.8                              | 0.91   | 56.3   | 5.7   |
|         | 88.0   | 89.0  | 1,237                              | 2,813                | 302                                | 1,095                              | 123                                | 28.4                               | 62.9                               | 6.6                                | 29.6                               | 4.6                                | 10.5                               | 1.2                                | 7.3                                | 1.0                                | 137.2                             | 0.59   | 46     | 7.3   |
|         | 89.0   | 90.0  | 2,463                              | 5,098                | 541                                | 1,884                              | 191                                | 39.0                               | 82.1                               | 7.5                                | 31.1                               | 4.5                                | 10.0                               | 1.1                                | 6.0                                | 0.7                                | 129.5                             | 1.05   | 57.5   | 8.2   |
|         | 90.0   | 91.0  | 1,959                              | 4,250                | 468                                | 1,645                              | 159                                | 31.5                               | 62.7                               | 5.7                                | 21.2                               | 3.3                                | 7.1                                | 0.8                                | 4.4                                | 0.6                                | 92.7                              | 0.87   | 40.2   | 7.8   |
|         | 91.0   | 92.0  | 1,830                              | 3,710                | 381                                | 1,324                              | 133                                | 27.9                               | 61.6                               | 5.8                                | 24.9                               | 3.9                                | 8.8                                | 1.0                                | 5.9                                | 0.8                                | 114.3                             | 0.76   | 34.4   | 16.6  |
|         | 92.0   | 93.0  | 2,721                              | 5,430                | 565                                | 1,913                              | 183                                | 37.6                               | 78.2                               | 7.5                                | 32.4                               | 4.9                                | 12.5                               | 1.5                                | 11.7                               | 1.8                                | 148.6                             | 1.11   | 70.5   | 9.4   |
|         | 93.0   | 94.0  | 1,572                              | 3,501                | 366                                | 1,271                              | 126                                | 27.1                               | 58.3                               | 5.9                                | 24.7                               | 3.9                                | 9.5                                | 1.5                                | 12.5                               | 2.3                                | 114.3                             | 0.71   | 33.5   | 11.6  |
|         | 94.0   | 95.0  | 862                                | 2,002                | 213                                | 786                                | 93                                 | 21.8                               | 51.6                               | 5.3                                | 24.6                               | 3.9                                | 9.0                                | 0.9                                | 5.1                                | 0.6                                | 113.0                             | 0.42   | 23.1   | 13.9  |
|         | 95.0   | 96.0  | 747                                | 1,763                | 189                                | 705                                | 85                                 | 19.9                               | 46.7                               | 4.9                                | 21.6                               | 3.3                                | 7.6                                | 0.8                                | 4.1                                | 0.6                                | 96.5                              | 0.37   | 24.2   | 13.1  |
|         | 96.0   | 97.0  | 1,088                              | 2,506                | 271                                | 984                                | 110                                | 24.9                               | 57.5                               | 5.7                                | 25.7                               | 4.2                                | 9.4                                | 1.0                                | 5.4                                | 0.8                                | 118.1                             | 0.52   | 29.7   | 11.6  |
|         | 97.0   | 98.0  | 3,683                              | 7,641                | 795                                | 2,659                              | 224                                | 41.1                               | 80.0                               | 6.7                                | 27.5                               | 4.5                                | 10.3                               | 1.2                                | 6.7                                | 0.9                                | 132.1                             | 1.53   | 44     | 16.5  |
|         | 98.0   | 99.0  | 4,152                              | 8,709                | 916                                | 3,114                              | 263                                | 49.9                               | 96.5                               | 8.1                                | 30.5                               | 4.4                                | 9.6                                | 1.1                                | 6.3                                | 0.7                                | 125.7                             | 1.75   | 51.6   | 12.7  |
|         | 99.0   | 100.0 | 2,052                              | 4,521                | 501                                | 1,820                              | 206                                | 45.2                               | 101.0                              | 10.2                               | 41.7                               | 6.4                                | 14.9                               | 1.6                                | 9.9                                | 1.2                                | 191.8                             | 0.95   | 43.1   | 10.6  |
|         | 100.0  | 101.0 | 2,099                              | 4,471                | 493                                | 1,808                              | 203                                | 45.9                               | 101.2                              | 10.1                               | 41.7                               | 6.2                                | 13.7                               | 1.4                                | 7.9                                | 0.9                                | 182.9                             | 0.95   | 33     | 7     |
|         | 101.0  | 102.0 | 1,119                              | 2,580                | 288                                | 1,081                              | 141                                | 36.2                               | 89.9                               | 10.0                               | 42.2                               | 6.7                                | 14.6                               | 1.6                                | 8.7                                | 0.9                                | 198.1                             | 0.56   | 35.9   | 5.8   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 102.0  | 103.0 | 1,419                              | 3,194                | 346                                | 1,242                              | 145                                | 35.7                               | 82.9                               | 9.0                                | 39.4                               | 6.2                                | 13.8                               | 1.4                                | 8.3                                | 1.0                                | 184.1                             | 0.67   | 37.6   | 6     |
|         | 103.0  | 104.0 | 1,507                              | 3,366                | 356                                | 1,295                              | 150                                | 35.7                               | 85.6                               | 10.0                               | 43.8                               | 7.3                                | 16.9                               | 1.7                                | 9.6                                | 1.1                                | 212.1                             | 0.71   | 40.7   | 7.5   |
|         | 104.0  | 105.0 | 1,923                              | 3,685                | 373                                | 1,260                              | 122                                | 25.8                               | 56.7                               | 5.9                                | 25.3                               | 4.1                                | 9.7                                | 1.1                                | 6.2                                | 0.8                                | 120.6                             | 0.76   | 54.6   | 7.5   |
|         | 105.0  | 106.0 | 3,460                              | 5,835                | 581                                | 1,802                              | 147                                | 28.3                               | 62.0                               | 5.7                                | 23.0                               | 3.7                                | 7.9                                | 0.9                                | 4.7                                | 0.5                                | 105.4                             | 1.21   | 39.2   | 11    |
|         | 106.0  | 107.0 | 5,852                              | 9,778                | 980                                | 2,928                              | 215                                | 36.7                               | 69.9                               | 5.2                                | 16.3                               | 2.1                                | 3.8                                | 0.4                                | 2.1                                | 0.3                                | 53.3                              | 1.99   | 42.8   | 7.7   |
|         | 107.0  | 108.0 | 1,853                              | 3,415                | 371                                | 1,225                              | 120                                | 24.9                               | 58.3                               | 5.6                                | 24.6                               | 3.8                                | 8.0                                | 0.9                                | 5.9                                | 0.8                                | 110.5                             | 0.72   | 49.8   | 9.4   |
|         | 108.0  | 109.0 | 2,041                              | 3,464                | 348                                | 1,096                              | 101                                | 20.4                               | 47.5                               | 4.6                                | 19.2                               | 2.9                                | 6.0                                | 0.6                                | 3.5                                | 0.5                                | 85.1                              | 0.72   | 22.4   | 7.3   |
|         | 109.0  | 110.0 | 1,888                              | 3,194                | 325                                | 1,042                              | 96                                 | 20.0                               | 48.4                               | 4.7                                | 19.3                               | 3.1                                | 6.6                                | 0.8                                | 3.9                                | 0.6                                | 87.6                              | 0.67   | 20.2   | 13.4  |
|         | 110.0  | 111.0 | 2,475                              | 4,115                | 417                                | 1,306                              | 115                                | 23.9                               | 56.4                               | 5.5                                | 22.6                               | 3.3                                | 7.2                                | 0.9                                | 4.2                                | 0.6                                | 96.5                              | 0.86   | 26.5   | 13.4  |
|         | 111.0  | 112.0 | 1,906                              | 3,452                | 362                                | 1,190                              | 116                                | 24.8                               | 60.3                               | 5.8                                | 25.3                               | 4.1                                | 8.8                                | 0.9                                | 5.1                                | 0.7                                | 113.0                             | 0.73   | 40.4   | 12.3  |
|         | 112.0  | 113.0 | 3,976                              | 6,867                | 701                                | 2,181                              | 172                                | 31.5                               | 66.7                               | 5.6                                | 20.5                               | 3.0                                | 6.2                                | 0.7                                | 3.4                                | 0.5                                | 83.8                              | 1.41   | 36.7   | 10.6  |
|         | 113.0  | 114.0 | 2,486                              | 4,385                | 465                                | 1,540                              | 157                                | 32.2                               | 73.2                               | 6.6                                | 26.5                               | 3.9                                | 8.2                                | 0.9                                | 4.7                                | 0.6                                | 105.4                             | 0.93   | 66     | 8.7   |
|         | 114.0  | 115.0 | 3,999                              | 7,248                | 759                                | 2,379                              | 170                                | 27.9                               | 50.0                               | 3.2                                | 9.1                                | 1.2                                | 1.8                                | 0.2                                | 0.9                                | 0.2                                | 26.7                              | 1.47   | 31.2   | 9     |
|         | 115.0  | 116.0 | 2,310                              | 4,177                | 435                                | 1,371                              | 123                                | 24.0                               | 52.1                               | 4.7                                | 19.7                               | 2.9                                | 6.4                                | 0.8                                | 4.1                                | 0.6                                | 87.6                              | 0.86   | 52.6   | 7.5   |
|         | 116.0  | 117.0 | 2,416                              | 4,226                | 447                                | 1,441                              | 137                                | 28.1                               | 65.7                               | 6.3                                | 26.5                               | 4.1                                | 8.5                                | 1.0                                | 5.4                                | 0.7                                | 116.8                             | 0.89   | 57.3   | 7.8   |
|         | 117.0  | 118.0 | 4,574                              | 7,678                | 770                                | 2,333                              | 177                                | 32.2                               | 67.3                               | 5.7                                | 20.9                               | 3.0                                | 6.3                                | 0.7                                | 3.5                                | 0.5                                | 81.3                              | 1.58   | 50.2   | 7     |
|         | 118.0  | 119.0 | 2,686                              | 4,914                | 513                                | 1,639                              | 142                                | 26.3                               | 58.2                               | 5.2                                | 19.9                               | 2.9                                | 6.2                                | 0.7                                | 3.6                                | 0.5                                | 81.3                              | 1.01   | 37.6   | 10    |
|         | 119.0  | 120.0 | 1,912                              | 3,464                | 362                                | 1,184                              | 109                                | 21.8                               | 52.0                               | 4.9                                | 19.6                               | 3.2                                | 7.0                                | 0.8                                | 4.2                                | 0.6                                | 88.9                              | 0.72   | 25.5   | 10.8  |
|         | 120.0  | 121.0 | 2,393                              | 4,508                | 489                                | 1,592                              | 136                                | 25.6                               | 55.8                               | 4.9                                | 19.5                               | 3.0                                | 6.3                                | 0.7                                | 4.2                                | 0.5                                | 83.8                              | 0.93   | 29.5   | 10.8  |
|         | 121.0  | 122.0 | 2,041                              | 3,562                | 373                                | 1,184                              | 111                                | 23.0                               | 55.4                               | 5.2                                | 22.5                               | 3.4                                | 7.2                                | 0.8                                | 4.3                                | 0.6                                | 92.7                              | 0.75   | 27     | 11.4  |
|         | 122.0  | 123.0 | 2,369                              | 4,226                | 437                                | 1,388                              | 123                                | 24.8                               | 58.7                               | 5.7                                | 22.5                               | 3.6                                | 7.7                                | 0.7                                | 4.4                                | 0.5                                | 95.2                              | 0.88   | 30.4   | 11.4  |
|         | 123.0  | 124.0 | 2,152                              | 3,869                | 404                                | 1,289                              | 116                                | 22.1                               | 52.1                               | 4.9                                | 19.9                               | 3.0                                | 6.5                                | 0.7                                | 4.0                                | 0.5                                | 83.8                              | 0.80   | 21.9   | 14.3  |
|         | 124.0  | 125.0 | 2,047                              | 3,661                | 383                                | 1,242                              | 112                                | 22.0                               | 52.0                               | 5.0                                | 19.5                               | 3.1                                | 6.3                                | 0.7                                | 3.6                                | 0.5                                | 82.5                              | 0.76   | 23.8   | 14.1  |
|         | 125.0  | 126.0 | 4,891                              | 7,862                | 770                                | 2,298                              | 170                                | 30.7                               | 62.6                               | 4.9                                | 18.4                               | 2.6                                | 5.3                                | 0.6                                | 3.5                                | 0.4                                | 74.9                              | 1.62   | 40.9   | 18.3  |
|         | 126.0  | 127.0 | 1,964                              | 3,489                | 365                                | 1,166                              | 109                                | 21.8                               | 51.4                               | 4.8                                | 20.1                               | 3.1                                | 6.4                                | 0.7                                | 4.1                                | 0.5                                | 86.4                              | 0.73   | 22     | 13.5  |
|         | 127.0  | 128.0 | 1,736                              | 3,096                | 326                                | 1,067                              | 103                                | 21.4                               | 54.9                               | 5.1                                | 21.1                               | 3.3                                | 6.9                                | 0.9                                | 4.4                                | 0.6                                | 92.7                              | 0.65   | 24.2   | 14.6  |
|         | 128.0  | 129.0 | 1,835                              | 3,575                | 400                                | 1,376                              | 130                                | 25.9                               | 58.8                               | 5.6                                | 23.2                               | 3.6                                | 8.2                                | 1.0                                | 6.2                                | 0.9                                | 106.7                             | 0.76   | 29.1   | 16.7  |
|         | 129.0  | 130.0 | 1,648                              | 3,059                | 324                                | 1,066                              | 103                                | 21.9                               | 53.0                               | 5.3                                | 21.8                               | 3.4                                | 7.7                                | 0.9                                | 4.9                                | 0.7                                | 97.8                              | 0.64   | 27     | 14.3  |
|         | 130.0  | 131.0 | 3,014                              | 5,172                | 536                                | 1,680                              | 140                                | 27.0                               | 58.3                               | 5.2                                | 21.1                               | 3.1                                | 6.9                                | 0.7                                | 4.2                                | 0.6                                | 90.2                              | 1.08   | 34.1   | 11.3  |
|         | 131.0  | 132.0 | 3,554                              | 6,105                | 631                                | 1,936                              | 159                                | 29.9                               | 62.1                               | 5.2                                | 20.2                               | 2.9                                | 6.3                                | 0.7                                | 4.3                                | 0.5                                | 81.3                              | 1.26   | 38.9   | 11.1  |
|         | 132.0  | 133.0 | 1,595                              | 2,973                | 314                                | 1,051                              | 102                                | 21.3                               | 48.4                               | 4.5                                | 18.9                               | 2.9                                | 6.0                                | 0.7                                | 3.8                                | 0.5                                | 82.5                              | 0.62   | 23.5   | 9.9   |
|         | 133.0  | 134.0 | 1,231                              | 2,359                | 250                                | 846                                | 86                                 | 19.5                               | 49.0                               | 5.0                                | 22.0                               | 3.5                                | 7.3                                | 0.8                                | 4.2                                | 0.6                                | 94.0                              | 0.50   | 20.1   | 12.3  |
|         | 134.0  | 135.0 | 1,196                              | 2,248                | 234                                | 762                                | 78                                 | 17.8                               | 44.3                               | 4.5                                | 18.9                               | 3.1                                | 6.4                                | 0.7                                | 4.1                                | 0.4                                | 83.8                              | 0.47   | 18.5   | 14.1  |
|         | 135.0  | 136.0 | 1,220                              | 2,377                | 253                                | 826                                | 88                                 | 19.3                               | 47.7                               | 5.0                                | 20.9                               | 3.2                                | 6.9                                | 0.8                                | 4.1                                | 0.6                                | 92.7                              | 0.50   | 28.6   | 9.7   |
|         | 136.0  | 137.0 | 1,190                              | 2,641                | 291                                | 1,071                              | 106                                | 23.2                               | 50.7                               | 5.0                                | 20.2                               | 3.4                                | 7.7                                | 0.8                                | 4.8                                | 0.6                                | 86.4                              | 0.55   | 44.8   | 8.1   |
|         | 137.0  | 138.0 | 2,146                              | 4,778                | 488                                | 1,697                              | 147                                | 29.0                               | 57.2                               | 4.7                                | 18.0                               | 2.6                                | 5.8                                | 0.7                                | 4.0                                | 0.6                                | 68.6                              | 0.94   | 25.6   | 6.8   |
|         | 138.0  | 139.0 | 4,375                              | 7,923                | 747                                | 2,368                              | 169                                | 31.3                               | 60.3                               | 5.1                                | 20.2                               | 3.0                                | 6.1                                | 0.7                                | 4.1                                | 0.6                                | 82.5                              | 1.58   | 27.9   | 7.5   |
|         | 139.0  | 140.0 | 3,718                              | 7,309                | 737                                | 2,473                              | 188                                | 34.6                               | 63.7                               | 5.1                                | 17.7                               | 2.5                                | 5.4                                | 0.6                                | 3.4                                | 0.4                                | 64.8                              | 1.46   | 31.4   | 5     |
|         | 140.0  | 141.0 | 3,190                              | 6,498                | 640                                | 2,170                              | 177                                | 35.3                               | 69.7                               | 5.8                                | 21.8                               | 3.1                                | 7.0                                | 0.7                                | 4.3                                | 0.5                                | 77.5                              | 1.29   | 35     | 5.1   |
|         | 141.0  | 142.0 | 2,721                              | 5,491                | 522                                | 1,720                              | 146                                | 29.1                               | 61.4                               | 6.2                                | 25.3                               | 3.8                                | 8.7                                | 0.9                                | 5.9                                | 0.7                                | 99.1                              | 1.08   | 32     | 5.4   |
|         | 142.0  | 143.0 | 2,264                              | 4,570                | 448                                | 1,534                              | 137                                | 29.1                               | 61.4                               | 6.3                                | 24.6                               | 3.4                                | 7.4                                | 0.8                                | 4.8                                | 0.6                                | 96.5                              | 0.92   | 34.8   | 5     |
|         | 143.0  | 144.0 | 3,389                              | 6,498                | 619                                | 2,012                              | 150                                | 28.0                               | 53.8                               | 4.7                                | 14.7                               | 1.9                                | 3.8                                | 0.4                                | 2.1                                | 0.3                                | 49.5                              | 1.28   | 20.5   | 6.3   |
|         | 144.0  | 145.0 | 2,639                              | 5,810                | 596                                | 2,100                              | 181                                | 36.6                               | 72.5                               | 6.4                                | 24.9                               | 3.6                                | 8.4                                | 0.7                                | 4.4                                | 0.5                                | 92.7                              | 1.16   | 26     | 6.1   |
|         | 145.0  | 146.0 | 2,862                              | 6,228                | 645                                | 2,187                              | 175                                | 33.9                               | 64.2                               | 5.3                                | 19.5                               | 2.7                                | 5.7                                | 0.6                                | 3.2                                | 0.5                                | 66.0                              | 1.23   | 29.6   | 5.3   |
|         | 146.0  | 147.0 | 4,339                              | 8,906                | 892                                | 2,881                              | 183                                | 29.5                               | 50.6                               | 3.5                                | 9.9                                | 1.1                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 26.7                              | 1.73   | 26.9   | 4.6   |
|         | 147.0  | 148.0 | 5,911                              | 11,092               | 1,045                              | 3,208                              | 179                                | 28.7                               | 46.3                               | 3.1                                | 8.6                                | 1.0                                | 2.1                                | 0.2                                | 1.4                                | 0.2                                | 25.4                              | 2.16   | 25.5   | 5.8   |

| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 148.0  | 149.0 | 2,275                              | 5,135                | 542                                | 1,930                              | 176                                | 38.4                               | 76.3                               | 6.9                                | 26.4                               | 3.8                                | 8.7                                | 0.8                                | 4.6                                | 0.6                                | 96.5                              | 1.03   | 26.6   | 5.6   |
|                 | 149.0  | 150.0 | 2,967                              | 6,351                | 633                                | 2,135                              | 178                                | 34.9                               | 65.4                               | 5.9                                | 24.1                               | 3.3                                | 7.8                                | 0.8                                | 5.4                                | 0.8                                | 87.6                              | 1.25   | 32.2   | 4.1   |
|                 | 150.0  | 151.0 | 2,979                              | 5,847                | 544                                | 1,750                              | 121                                | 23.2                               | 43.1                               | 3.7                                | 14.9                               | 2.1                                | 5.0                                | 0.6                                | 3.3                                | 0.5                                | 57.2                              | 1.14   | 15.8   | 3.6   |
|                 | 151.0  | 152.0 | 7,529                              | 12,653               | 1,132                              | 3,336                              | 204                                | 33.6                               | 59.8                               | 4.7                                | 17.7                               | 2.3                                | 5.0                                | 0.6                                | 3.4                                | 0.5                                | 57.2                              | 2.50   | 31.5   | 5.8   |
|                 | 152.0  | 153.0 | 4,199                              | 7,800                | 731                                | 2,368                              | 180                                | 35.3                               | 66.0                               | 6.0                                | 21.4                               | 3.1                                | 6.9                                | 0.8                                | 4.8                                | 0.7                                | 81.3                              | 1.55   | 32.7   | 5.2   |
|                 | 153.0  | 154.0 | 4,539                              | 7,788                | 762                                | 2,210                              | 166                                | 30.6                               | 55.7                               | 3.6                                | 13.3                               | 1.6                                | 3.0                                | 0.2                                | 1.6                                | 0.2                                | 36.8                              | 1.56   | 18     | 5.2   |
|                 | 154.0  | 155.0 | 4,363                              | 7,972                | 814                                | 2,461                              | 197                                | 39.5                               | 73.3                               | 5.3                                | 17.2                               | 1.9                                | 3.5                                | 0.3                                | 1.5                                | 0.2                                | 44.5                              | 1.60   | 17.2   | 4.5   |
|                 | 155.0  | 156.0 | 2,615                              | 5,393                | 559                                | 1,779                              | 173                                | 37.1                               | 76.5                               | 6.5                                | 25.3                               | 3.3                                | 7.2                                | 0.6                                | 3.6                                | 0.4                                | 87.6                              | 1.08   | 26.8   | 7.8   |
|                 | 156.0  | 157.0 | 3,624                              | 6,928                | 706                                | 2,123                              | 163                                | 32.3                               | 59.9                               | 4.7                                | 19.1                               | 2.5                                | 6.0                                | 0.6                                | 3.0                                | 0.4                                | 66.0                              | 1.37   | 24.6   | 8.7   |
|                 | 157.0  | 158.0 | 4,785                              | 8,967                | 903                                | 2,683                              | 191                                | 35.0                               | 61.3                               | 4.4                                | 14.4                               | 1.4                                | 2.7                                | 0.2                                | 1.4                                | 0.2                                | 38.1                              | 1.77   | 18.8   | 6.6   |
|                 | 158.0  | 159.0 | 3,577                              | 7,174                | 727                                | 2,234                              | 172                                | 29.1                               | 53.4                               | 3.7                                | 12.6                               | 1.7                                | 3.3                                | 0.3                                | 1.8                                | 0.3                                | 38.1                              | 1.40   | 19.2   | 15.2  |
|                 | 159.0  | 160.0 | 3,800                              | 7,395                | 759                                | 2,321                              | 184                                | 31.7                               | 57.3                               | 4.1                                | 13.8                               | 1.7                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 38.1                              | 1.46   | 17     | 9.6   |
|                 | 160.0  | 161.0 | 4,867                              | 8,771                | 865                                | 2,519                              | 180                                | 30.8                               | 55.0                               | 4.0                                | 14.1                               | 1.8                                | 3.5                                | 0.4                                | 2.3                                | 0.3                                | 45.7                              | 1.74   | 22.3   | 6     |
|                 | 161.0  | 162.0 | 6,685                              | 12,137               | 1,166                              | 3,324                              | 223                                | 35.8                               | 61.1                               | 4.4                                | 14.5                               | 1.7                                | 2.7                                | 0.2                                | 1.3                                | 0.1                                | 35.6                              | 2.37   | 25.7   | 7.7   |
|                 | 162.0  | 163.0 | 2,475                              | 4,914                | 487                                | 1,464                              | 110                                | 17.4                               | 29.2                               | 1.8                                | 5.7                                | 0.8                                | 1.3                                | 0.2                                | 0.7                                | 0.1                                | 16.5                              | 0.95   | 13     | 3     |
| <b>KGKRC018</b> | 0.0    | 1.0   | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    |
|                 | 1.0    | 2.0   | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    |
|                 | 2.0    | 3.0   | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    |
|                 | 3.0    | 4.0   | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    |
|                 | 4.0    | 5.0   | 12,725                             | 21,558               | 1,975                              | 6,007                              | 356                                | 58.6                               | 103.6                              | 7.9                                | 23.5                               | 2.4                                | 3.8                                | 0.3                                | 1.7                                | 0.3                                | 57.2                              | 4.29   | 63.2   | 1.4   |
|                 | 5.0    | 6.0   | 6,896                              | 12,653               | 1,238                              | 3,977                              | 257                                | 43.8                               | 76.5                               | 5.4                                | 15.6                               | 1.6                                | 3.0                                | 0.2                                | 1.3                                | 0.2                                | 35.6                              | 2.52   | 48     | 7.6   |
|                 | 6.0    | 7.0   | 3,718                              | 7,653                | 768                                | 2,496                              | 167                                | 26.4                               | 44.6                               | 2.9                                | 7.9                                | 1.0                                | 1.6                                | 0.2                                | 1.1                                | 0.2                                | 20.3                              | 1.49   | 21.4   | 8.9   |
|                 | 7.0    | 8.0   | 5,758                              | 11,043               | 1,081                              | 3,429                              | 215                                | 33.7                               | 54.2                               | 3.5                                | 8.6                                | 1.0                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 2.17   | 24.2   | 7.5   |
|                 | 8.0    | 9.0   | 6,978                              | 13,021               | 1,275                              | 4,012                              | 252                                | 38.9                               | 67.1                               | 4.1                                | 11.0                               | 1.3                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 27.9                              | 2.57   | 31.1   | 8.3   |
|                 | 9.0    | 10.0  | 2,498                              | 4,938                | 451                                | 1,411                              | 89                                 | 15.9                               | 28.7                               | 2.2                                | 6.9                                | 0.9                                | 2.1                                | 0.2                                | 1.4                                | 0.2                                | 21.6                              | 0.95   | 23.8   | 13    |
|                 | 10.0   | 11.0  | 10,262                             | 17,812               | 1,643                              | 5,004                              | 302                                | 50.7                               | 84.6                               | 5.4                                | 14.5                               | 1.6                                | 2.9                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 3.52   | 34.8   | 7.8   |
|                 | 11.0   | 12.0  | 3,683                              | 7,321                | 721                                | 2,379                              | 166                                | 29.2                               | 53.5                               | 4.3                                | 13.8                               | 1.7                                | 3.1                                | 0.4                                | 2.4                                | 0.3                                | 40.6                              | 1.44   | 30.8   | 13    |
|                 | 12.0   | 13.0  | 7,729                              | 13,205               | 1,205                              | 3,779                              | 247                                | 44.0                               | 80.2                               | 6.3                                | 19.2                               | 2.0                                | 3.4                                | 0.3                                | 1.5                                | 0.2                                | 48.3                              | 2.64   | 55.5   | 6.2   |
|                 | 13.0   | 14.0  | 7,916                              | 14,065               | 1,335                              | 4,141                              | 267                                | 45.2                               | 76.4                               | 5.4                                | 13.9                               | 1.6                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 33.0                              | 2.79   | 54     | 6.3   |
|                 | 14.0   | 15.0  | 7,072                              | 13,205               | 1,263                              | 3,942                              | 241                                | 39.5                               | 64.1                               | 4.1                                | 10.4                               | 1.3                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 25.4                              | 2.59   | 28.2   | 5.5   |
|                 | 15.0   | 16.0  | 14,250                             | 24,568               | 2,253                              | 6,882                              | 422                                | 71.8                               | 123.9                              | 8.7                                | 24.7                               | 2.3                                | 4.0                                | 0.3                                | 1.4                                | 0.2                                | 50.8                              | 4.87   | 59.5   | 2.3   |
|                 | 16.0   | 17.0  | 14,953                             | 25,551               | 2,344                              | 7,080                              | 436                                | 74.7                               | 129.1                              | 8.9                                | 24.7                               | 2.6                                | 3.9                                | 0.3                                | 1.5                                | 0.2                                | 53.3                              | 5.07   | 63.6   | 2.2   |
|                 | 17.0   | 18.0  | 9,934                              | 16,768               | 1,643                              | 4,502                              | 314                                | 51.0                               | 84.3                               | 6.3                                | 17.2                               | 1.7                                | 3.2                                | 0.3                                | 1.4                                | 0.1                                | 40.6                              | 3.34   | 38.1   | 3     |
|                 | 18.0   | 19.0  | 9,535                              | 16,153               | 1,643                              | 4,631                              | 329                                | 51.8                               | 86.7                               | 7.2                                | 19.2                               | 2.0                                | 3.3                                | 0.5                                | 1.4                                | 0.3                                | 41.9                              | 3.25   | 49.1   | 3.5   |
|                 | 19.0   | 20.0  | 9,394                              | 16,768               | 1,728                              | 4,887                              | 350                                | 58.1                               | 97.2                               | 7.1                                | 19.1                               | 1.8                                | 3.1                                | 0.3                                | 1.3                                | 0.2                                | 41.9                              | 3.34   | 72.9   | 3.3   |
|                 | 20.0   | 21.0  | 6,861                              | 12,014               | 1,226                              | 3,429                              | 234                                | 37.4                               | 58.6                               | 4.1                                | 11.1                               | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 2.39   | 28.2   | 3.8   |
|                 | 21.0   | 22.0  | 10,520                             | 18,365               | 1,824                              | 5,051                              | 344                                | 56.0                               | 90.0                               | 6.1                                | 17.1                               | 1.6                                | 2.9                                | 0.2                                | 1.4                                | 0.1                                | 35.6                              | 3.63   | 35.7   | 2.5   |
|                 | 22.0   | 23.0  | 11,165                             | 18,057               | 1,740                              | 4,631                              | 315                                | 53.2                               | 86.5                               | 6.3                                | 15.4                               | 1.6                                | 2.6                                | 0.2                                | 1.0                                | 0.1                                | 33.0                              | 3.61   | 33.5   | 1.5   |
|                 | 23.0   | 24.0  | 8,503                              | 15,355               | 1,601                              | 4,502                              | 319                                | 51.5                               | 79.4                               | 5.5                                | 13.5                               | 1.2                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 26.7                              | 3.05   | 37.3   | 3.3   |
|                 | 24.0   | 25.0  | 9,289                              | 15,662               | 1,528                              | 4,129                              | 285                                | 46.3                               | 74.9                               | 5.7                                | 16.1                               | 1.6                                | 3.0                                | 0.3                                | 1.7                                | 0.2                                | 38.1                              | 3.11   | 38.9   | 3.4   |
|                 | 25.0   | 26.0  | 10,602                             | 17,812               | 1,752                              | 4,794                              | 339                                | 58.2                               | 97.1                               | 7.2                                | 21.1                               | 2.2                                | 3.3                                | 0.3                                | 1.7                                | 0.2                                | 45.7                              | 3.55   | 58.1   | 0.9   |
|                 | 26.0   | 27.0  | 11,493                             | 19,593               | 1,987                              | 5,400                              | 379                                | 62.3                               | 105.9                              | 7.8                                | 21.9                               | 2.2                                | 3.4                                | 0.3                                | 1.0                                | 0.2                                | 45.7                              | 3.91   | 59.5   | 2.4   |
|                 | 27.0   | 28.0  | 9,418                              | 15,969               | 1,547                              | 4,199                              | 298                                | 51.2                               | 83.7                               | 6.3                                | 16.6                               | 1.6                                | 2.5                                | 0.2                                | 0.9                                | 0.1                                | 36.8                              | 3.16   | 41.2   | 3     |
|                 | 28.0   | 29.0  | 8,726                              | 15,969               | 1,643                              | 4,631                              | 320                                | 50.1                               | 79.4                               | 5.5                                | 14.5                               | 1.4                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 31.8                              | 3.15   | 39.5   | 3.9   |
|                 | 29.0   | 30.0  | 7,025                              | 12,530               | 1,281                              | 3,639                              | 244                                | 37.5                               | 58.1                               | 3.9                                | 10.4                               | 1.1                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 2.49   | 29     | 6.8   |
|                 | 30.0   | 31.0  | 6,978                              | 13,451               | 1,432                              | 4,129                              | 270                                | 39.0                               | 58.0                               | 3.6                                | 9.2                                | 1.0                                | 1.6                                | 0.2                                | 0.8                                | 0.2                                | 19.1                              | 2.64   | 24.6   | 4.8   |



| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 31.0   | 32.0 | 9,934                              | 18,672               | 1,975                              | 5,715                              | 398                                | 60.4                               | 89.9                               | 5.5                                | 13.3                               | 1.1                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 3.69   | 39.6   | 4.3   |
|         | 32.0   | 33.0 | 8,972                              | 16,092               | 1,649                              | 4,619                              | 307                                | 46.3                               | 69.2                               | 4.3                                | 10.7                               | 1.0                                | 1.8                                | 0.1                                | 1.0                                | 0.1                                | 20.3                              | 3.18   | 30.9   | 4.6   |
|         | 33.0   | 34.0 | 8,444                              | 15,539               | 1,625                              | 4,642                              | 324                                | 49.1                               | 77.7                               | 4.9                                | 11.8                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 3.07   | 36     | 3     |
|         | 34.0   | 35.0 | 10,414                             | 20,453               | 2,090                              | 6,205                              | 404                                | 60.1                               | 97.6                               | 5.8                                | 16.5                               | 1.6                                | 2.7                                | 0.2                                | 1.3                                | 0.2                                | 35.6                              | 3.98   | 46     | 3.9   |
|         | 35.0   | 36.0 | 10,626                             | 20,883               | 2,145                              | 6,439                              | 464                                | 72.3                               | 119.9                              | 6.9                                | 19.5                               | 1.7                                | 3.0                                | 0.2                                | 1.3                                | 0.2                                | 39.4                              | 4.08   | 71.2   | 2.3   |
|         | 36.0   | 37.0 | 9,429                              | 17,136               | 1,794                              | 5,051                              | 366                                | 59.2                               | 94.3                               | 6.3                                | 16.8                               | 1.5                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 33.0                              | 3.40   | 56.9   | 2.4   |
|         | 37.0   | 38.0 | 9,887                              | 17,198               | 1,740                              | 4,794                              | 328                                | 52.2                               | 84.0                               | 5.9                                | 15.6                               | 1.5                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 34.3                              | 3.41   | 47.2   | 3.4   |
|         | 38.0   | 39.0 | 9,382                              | 16,461               | 1,661                              | 4,619                              | 322                                | 52.5                               | 83.6                               | 5.5                                | 14.0                               | 1.2                                | 1.5                                | 0.1                                | 0.6                                | 0.1                                | 24.1                              | 3.26   | 44.4   | 3.7   |
|         | 39.0   | 40.0 | 9,828                              | 17,382               | 1,764                              | 4,922                              | 326                                | 52.8                               | 83.8                               | 5.8                                | 14.7                               | 1.4                                | 2.2                                | 0.2                                | 1.4                                | 0.2                                | 31.8                              | 3.44   | 44.4   | 4.7   |
|         | 40.0   | 41.0 | 7,647                              | 13,574               | 1,395                              | 3,896                              | 254                                | 39.1                               | 59.9                               | 4.0                                | 10.4                               | 1.0                                | 1.5                                | 0.2                                | 1.1                                | 0.2                                | 21.6                              | 2.69   | 27.7   | 6.8   |
|         | 41.0   | 42.0 | 7,471                              | 13,082               | 1,335                              | 3,721                              | 252                                | 39.1                               | 58.6                               | 3.9                                | 10.2                               | 1.1                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 22.9                              | 2.60   | 28.7   | 6.2   |
|         | 42.0   | 43.0 | 9,031                              | 16,215               | 1,649                              | 4,607                              | 300                                | 47.8                               | 77.3                               | 5.5                                | 14.4                               | 1.6                                | 2.7                                | 0.3                                | 1.5                                | 0.2                                | 40.6                              | 3.20   | 40.2   | 4     |
|         | 43.0   | 44.0 | 9,582                              | 17,320               | 1,776                              | 5,027                              | 375                                | 61.8                               | 104.9                              | 8.6                                | 25.9                               | 2.5                                | 4.2                                | 0.3                                | 2.1                                | 0.3                                | 64.8                              | 3.44   | 81.7   | 1.4   |
|         | 44.0   | 45.0 | 8,280                              | 14,495               | 1,486                              | 4,152                              | 300                                | 49.3                               | 79.8                               | 5.9                                | 16.3                               | 1.6                                | 2.9                                | 0.2                                | 1.6                                | 0.2                                | 36.8                              | 2.89   | 56     | 2.7   |
|         | 45.0   | 46.0 | 21,755                             | 38,080               | 3,915                              | 9,868                              | 623                                | 96.7                               | 148.1                              | 9.6                                | 23.1                               | 2.0                                | 3.1                                | 0.3                                | 0.9                                | 0.2                                | 41.9                              | 7.46   | 65     | 1.7   |
|         | 46.0   | 47.0 | 13,663                             | 25,674               | 2,634                              | 7,033                              | 422                                | 65.1                               | 96.5                               | 6.7                                | 17.7                               | 1.6                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 34.3                              | 4.97   | 58.8   | 1.4   |
|         | 47.0   | 48.0 | 21,814                             | 39,063               | 3,758                              | 10,719                             | 645                                | 98.7                               | 163.7                              | 10.7                               | 25.4                               | 2.3                                | 3.1                                | 0.2                                | 1.1                                | 0.1                                | 43.2                              | 7.63   | 76.6   | 1.7   |
|         | 48.0   | 49.0 | 6,849                              | 12,714               | 1,184                              | 3,651                              | 224                                | 33.9                               | 55.7                               | 3.5                                | 9.4                                | 1.2                                | 2.1                                | 0.3                                | 1.3                                | 0.2                                | 21.6                              | 2.48   | 26.7   | 5.5   |
|         | 49.0   | 50.0 | 10,637                             | 19,163               | 1,740                              | 5,144                              | 299                                | 45.4                               | 80.7                               | 5.5                                | 14.0                               | 1.5                                | 2.9                                | 0.2                                | 1.1                                | 0.1                                | 31.8                              | 3.72   | 40.4   | 3.1   |
|         | 50.0   | 51.0 | 9,019                              | 15,355               | 1,371                              | 4,012                              | 242                                | 41.8                               | 72.2                               | 6.1                                | 18.8                               | 2.1                                | 4.5                                | 0.5                                | 2.7                                | 0.4                                | 54.6                              | 3.02   | 49     | 4.8   |
|         | 51.0   | 52.0 | 3,378                              | 6,658                | 627                                | 2,024                              | 154                                | 30.7                               | 66.7                               | 7.6                                | 37.3                               | 6.0                                | 15.3                               | 1.9                                | 12.2                               | 1.5                                | 176.5                             | 1.32   | 36.4   | 9.9   |
|         | 52.0   | 53.0 | 3,894                              | 7,616                | 731                                | 2,245                              | 145                                | 22.9                               | 39.4                               | 2.6                                | 9.2                                | 1.0                                | 1.9                                | 0.1                                | 1.0                                | 0.1                                | 20.3                              | 1.47   | 20     | 8.7   |
|         | 53.0   | 54.0 | 3,530                              | 7,248                | 677                                | 2,105                              | 136                                | 22.2                               | 41.7                               | 3.9                                | 13.8                               | 1.5                                | 2.4                                | 0.2                                | 1.4                                | 0.2                                | 35.6                              | 1.38   | 36.8   | 3.2   |
|         | 54.0   | 55.0 | 4,034                              | 8,353                | 782                                | 2,484                              | 164                                | 27.1                               | 48.0                               | 4.0                                | 12.3                               | 1.3                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 27.9                              | 1.59   | 40.1   | 2.3   |
|         | 55.0   | 56.0 | 5,887                              | 11,572               | 1,120                              | 3,616                              | 234                                | 36.7                               | 62.4                               | 4.3                                | 12.6                               | 1.4                                | 1.9                                | 0.2                                | 0.8                                | 0.2                                | 27.9                              | 2.26   | 37.2   | 4.2   |
|         | 56.0   | 57.0 | 6,087                              | 12,014               | 1,164                              | 3,779                              | 249                                | 40.4                               | 68.5                               | 4.7                                | 12.9                               | 1.3                                | 2.5                                | 0.2                                | 1.4                                | 0.2                                | 30.5                              | 2.35   | 39.8   | 4.6   |
|         | 57.0   | 58.0 | 5,360                              | 11,289               | 1,085                              | 3,488                              | 237                                | 38.1                               | 65.9                               | 4.6                                | 12.7                               | 1.3                                | 2.1                                | 0.2                                | 1.1                                | 0.1                                | 27.9                              | 2.16   | 42.7   | 3.9   |
|         | 58.0   | 59.0 | 7,647                              | 15,294               | 1,462                              | 4,631                              | 297                                | 47.8                               | 82.4                               | 5.9                                | 16.0                               | 1.6                                | 2.6                                | 0.2                                | 1.3                                | 0.2                                | 35.6                              | 2.95   | 53.7   | 10.9  |
|         | 59.0   | 60.0 | 5,430                              | 11,694               | 1,160                              | 3,861                              | 281                                | 47.1                               | 85.4                               | 6.6                                | 19.1                               | 1.9                                | 2.7                                | 0.2                                | 1.4                                | 0.2                                | 43.2                              | 2.26   | 82     | 10.2  |
|         | 60.0   | 61.0 | 6,005                              | 12,960               | 1,250                              | 4,106                              | 279                                | 44.2                               | 71.6                               | 4.5                                | 12.1                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 26.7                              | 2.48   | 40.6   | 10.2  |
|         | 61.0   | 62.0 | 7,049                              | 14,127               | 1,420                              | 4,607                              | 308                                | 50.7                               | 86.3                               | 5.4                                | 16.8                               | 1.7                                | 2.7                                | 0.2                                | 1.3                                | 0.1                                | 35.6                              | 2.77   | 46.5   | 4.9   |
|         | 62.0   | 63.0 | 5,805                              | 11,805               | 1,176                              | 3,791                              | 267                                | 41.1                               | 68.7                               | 4.3                                | 12.2                               | 1.2                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 25.4                              | 2.30   | 34.4   | 13.6  |
|         | 63.0   | 64.0 | 5,301                              | 10,896               | 1,080                              | 3,453                              | 233                                | 36.0                               | 61.1                               | 4.0                                | 10.9                               | 1.1                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 25.4                              | 2.11   | 32.5   | 13    |
|         | 64.0   | 65.0 | 4,457                              | 9,016                | 895                                | 2,939                              | 208                                | 34.0                               | 60.2                               | 4.3                                | 13.3                               | 1.4                                | 2.4                                | 0.2                                | 1.4                                | 0.2                                | 30.5                              | 1.77   | 43.7   | 13.4  |
|         | 65.0   | 66.0 | 3,495                              | 7,432                | 742                                | 2,414                              | 167                                | 28.6                               | 52.3                               | 4.2                                | 11.9                               | 1.4                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 31.8                              | 1.44   | 46.2   | 7.7   |
|         | 66.0   | 67.0 | 5,430                              | 11,277               | 1,115                              | 3,628                              | 222                                | 36.6                               | 66.2                               | 5.2                                | 15.6                               | 1.5                                | 2.7                                | 0.3                                | 1.4                                | 0.2                                | 36.8                              | 2.18   | 46.8   | 3.9   |
|         | 67.0   | 68.0 | 4,363                              | 8,930                | 863                                | 2,753                              | 194                                | 31.7                               | 58.1                               | 4.7                                | 14.2                               | 1.6                                | 3.0                                | 0.2                                | 1.5                                | 0.2                                | 39.4                              | 1.73   | 46.5   | 5.3   |
|         | 68.0   | 69.0 | 4,339                              | 8,746                | 853                                | 2,741                              | 197                                | 35.4                               | 66.3                               | 5.2                                | 17.7                               | 1.9                                | 3.7                                | 0.3                                | 2.1                                | 0.3                                | 50.8                              | 1.71   | 51.7   | 3.7   |
|         | 69.0   | 70.0 | 5,864                              | 11,621               | 1,135                              | 3,546                              | 227                                | 36.8                               | 67.7                               | 5.2                                | 16.3                               | 1.8                                | 3.0                                | 0.3                                | 1.7                                | 0.2                                | 41.9                              | 2.26   | 53.7   | 6.6   |
|         | 70.0   | 71.0 | 2,498                              | 5,724                | 571                                | 1,866                              | 135                                | 22.9                               | 41.6                               | 3.7                                | 11.9                               | 1.1                                | 2.3                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 1.09   | 37.6   | 9.6   |
|         | 71.0   | 72.0 | 6,357                              | 13,574               | 1,402                              | 4,712                              | 341                                | 53.7                               | 93.6                               | 6.1                                | 16.3                               | 1.6                                | 2.2                                | 0.2                                | 0.8                                | 0.2                                | 30.5                              | 2.66   | 78.2   | 6.2   |
|         | 72.0   | 73.0 | 8,374                              | 17,566               | 1,800                              | 5,914                              | 420                                | 65.9                               | 109.5                              | 7.3                                | 19.3                               | 1.8                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 34.3                              | 3.43   | 91.3   | 7.5   |
|         | 73.0   | 74.0 | 2,299                              | 5,208                | 516                                | 1,726                              | 121                                | 19.9                               | 40.1                               | 3.6                                | 12.2                               | 1.2                                | 1.6                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 1.00   | 47.9   | 7.9   |
|         | 74.0   | 75.0 | 1,964                              | 4,447                | 441                                | 1,464                              | 109                                | 18.1                               | 36.2                               | 3.3                                | 11.3                               | 1.2                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 25.4                              | 0.85   | 42     | 8.5   |
|         | 75.0   | 76.0 | 1,736                              | 3,992                | 401                                | 1,336                              | 95                                 | 16.0                               | 30.8                               | 2.6                                | 9.2                                | 1.0                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 0.76   | 26.1   | 5.2   |
|         | 76.0   | 77.0 | 2,873                              | 5,823                | 610                                | 1,983                              | 151                                | 24.9                               | 42.8                               | 3.3                                | 10.6                               | 1.1                                | 1.6                                | 0.2                                | 1.0                                | 0.2                                | 25.4                              | 1.16   | 34.7   | 7     |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 77.0   | 78.0  | 3,331                              | 6,535                | 660                                | 2,065                              | 150                                | 24.3                               | 43.6                               | 3.5                                | 10.1                               | 1.1                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 1.28   | 40.7   | 5.2   |
|         | 78.0   | 79.0  | 6,826                              | 12,837               | 1,275                              | 3,977                              | 314                                | 53.4                               | 97.7                               | 8.2                                | 24.7                               | 2.3                                | 3.4                                | 0.3                                | 1.9                                | 0.3                                | 54.6                              | 2.55   | 94     | 1.6   |
|         | 79.0   | 80.0  | 13,487                             | 25,551               | 2,573                              | 7,535                              | 457                                | 74.2                               | 122.2                              | 9.4                                | 30.2                               | 3.4                                | 5.8                                | 0.7                                | 3.4                                | 0.5                                | 88.9                              | 4.99   | 101.5  | 3.5   |
|         | 80.0   | 81.0  | 7,482                              | 17,320               | 2,114                              | 6,940                              | 590                                | 98.9                               | 163.7                              | 11.8                               | 40.3                               | 5.0                                | 9.0                                | 1.0                                | 5.0                                | 0.6                                | 147.3                             | 3.49   | 118    | 2     |
|         | 81.0   | 82.0  | 7,529                              | 16,153               | 1,824                              | 5,610                              | 450                                | 76.4                               | 130.2                              | 9.5                                | 29.8                               | 3.2                                | 6.1                                | 0.7                                | 3.3                                | 0.5                                | 91.4                              | 3.19   | 103    | 1.3   |
|         | 82.0   | 83.0  | 6,251                              | 12,591               | 1,365                              | 4,094                              | 318                                | 56.4                               | 101.5                              | 7.9                                | 25.5                               | 2.7                                | 5.3                                | 0.6                                | 3.8                                | 0.5                                | 74.9                              | 2.49   | 103.5  | 1.1   |
|         | 83.0   | 84.0  | 10,637                             | 20,207               | 2,078                              | 5,960                              | 412                                | 70.2                               | 114.6                              | 7.7                                | 23.0                               | 2.4                                | 3.8                                | 0.4                                | 2.4                                | 0.3                                | 50.8                              | 3.96   | 72.9   | 1.2   |
|         | 84.0   | 85.0  | 13,956                             | 26,288               | 2,706                              | 7,990                              | 497                                | 79.3                               | 123.3                              | 8.2                                | 23.3                               | 2.2                                | 3.1                                | 0.3                                | 1.8                                | 0.3                                | 45.7                              | 5.17   | 87.5   | 1.2   |
|         | 85.0   | 86.0  | 12,197                             | 23,094               | 2,374                              | 6,730                              | 442                                | 71.1                               | 116.4                              | 7.9                                | 23.3                               | 2.2                                | 3.5                                | 0.4                                | 1.9                                | 0.3                                | 49.5                              | 4.51   | 78.4   | 1.5   |
|         | 86.0   | 87.0  | 13,956                             | 26,411               | 2,755                              | 8,281                              | 551                                | 87.9                               | 140.0                              | 9.1                                | 24.1                               | 2.3                                | 3.4                                | 0.3                                | 1.5                                | 0.2                                | 45.7                              | 5.23   | 95.8   | 1     |
|         | 87.0   | 88.0  | 12,549                             | 24,507               | 2,622                              | 7,955                              | 542                                | 88.1                               | 140.0                              | 8.8                                | 25.1                               | 2.4                                | 3.2                                | 0.3                                | 1.7                                | 0.2                                | 48.3                              | 4.85   | 110.5  | 2.8   |
|         | 88.0   | 89.0  | 13,194                             | 25,919               | 2,767                              | 8,211                              | 535                                | 86.3                               | 134.9                              | 8.5                                | 23.0                               | 2.2                                | 3.0                                | 0.3                                | 1.6                                | 0.2                                | 44.5                              | 5.09   | 98.8   | 1.3   |
|         | 89.0   | 90.0  | 8,198                              | 15,785               | 1,655                              | 4,841                              | 347                                | 57.0                               | 97.3                               | 7.0                                | 20.0                               | 2.1                                | 3.1                                | 0.3                                | 1.8                                | 0.3                                | 45.7                              | 3.11   | 75.1   | 0.9   |
|         | 90.0   | 91.0  | 10,848                             | 21,251               | 2,006                              | 6,264                              | 420                                | 67.9                               | 115.8                              | 8.2                                | 22.0                               | 2.2                                | 3.4                                | 0.3                                | 1.7                                | 0.3                                | 49.5                              | 4.11   | 90.5   | 1.2   |
|         | 91.0   | 92.0  | 13,253                             | 24,138               | 2,525                              | 7,407                              | 500                                | 80.1                               | 130.2                              | 8.8                                | 25.9                               | 2.7                                | 4.6                                | 0.6                                | 2.9                                | 0.4                                | 66.0                              | 4.81   | 90.5   | 1.2   |
|         | 92.0   | 93.0  | 11,423                             | 21,006               | 2,169                              | 6,275                              | 434                                | 68.7                               | 112.4                              | 7.7                                | 24.2                               | 2.4                                | 4.2                                | 0.5                                | 2.5                                | 0.3                                | 64.8                              | 4.16   | 74.2   | 1.1   |
|         | 93.0   | 94.0  | 9,969                              | 18,672               | 1,981                              | 5,727                              | 395                                | 63.9                               | 105.2                              | 8.0                                | 22.7                               | 2.2                                | 3.7                                | 0.4                                | 1.8                                | 0.3                                | 55.9                              | 3.70   | 86.8   | 0.8   |
|         | 94.0   | 95.0  | 8,632                              | 16,276               | 1,740                              | 4,992                              | 363                                | 60.7                               | 107.9                              | 8.7                                | 27.9                               | 3.0                                | 5.6                                | 0.6                                | 3.1                                | 0.4                                | 82.5                              | 3.23   | 110    | 1     |
|         | 95.0   | 96.0  | 8,186                              | 15,846               | 1,698                              | 4,841                              | 339                                | 56.2                               | 96.0                               | 7.2                                | 23.3                               | 2.6                                | 5.0                                | 0.6                                | 3.0                                | 0.4                                | 72.4                              | 3.12   | 73.9   | 1.2   |
|         | 96.0   | 97.0  | 6,286                              | 12,407               | 1,257                              | 3,884                              | 278                                | 44.4                               | 80.6                               | 6.7                                | 24.2                               | 2.9                                | 5.6                                | 0.7                                | 3.6                                | 0.5                                | 81.3                              | 2.44   | 73.8   | 1.3   |
|         | 97.0   | 98.0  | 9,077                              | 17,198               | 1,782                              | 4,992                              | 343                                | 57.6                               | 104.1                              | 9.1                                | 31.9                               | 3.7                                | 7.2                                | 0.8                                | 5.1                                | 0.8                                | 105.4                             | 3.37   | 82.6   | 1.5   |
|         | 98.0   | 99.0  | 10,872                             | 20,391               | 2,102                              | 5,937                              | 401                                | 65.4                               | 116.4                              | 9.2                                | 28.7                               | 3.1                                | 5.4                                | 0.5                                | 2.7                                | 0.3                                | 78.7                              | 4.00   | 94.1   | 1.5   |
|         | 99.0   | 100.0 | 10,626                             | 20,391               | 2,175                              | 6,170                              | 448                                | 73.9                               | 130.2                              | 10.0                               | 30.6                               | 3.4                                | 6.0                                | 0.6                                | 2.9                                | 0.4                                | 85.1                              | 4.02   | 101    | 1.6   |
|         | 100.0  | 101.0 | 7,600                              | 16,399               | 1,679                              | 5,727                              | 441                                | 76.0                               | 141.8                              | 10.8                               | 31.0                               | 3.2                                | 5.3                                | 0.5                                | 2.2                                | 0.3                                | 82.5                              | 3.22   | 221    | 1.4   |
|         | 101.0  | 102.0 | 9,922                              | 19,532               | 2,126                              | 6,170                              | 460                                | 76.8                               | 131.4                              | 10.5                               | 31.3                               | 3.4                                | 5.5                                | 0.6                                | 2.5                                | 0.3                                | 87.6                              | 3.86   | 113.5  | 1.5   |
|         | 102.0  | 103.0 | 7,377                              | 14,557               | 1,553                              | 4,456                              | 318                                | 52.6                               | 90.7                               | 7.0                                | 22.5                               | 2.6                                | 4.7                                | 0.5                                | 2.4                                | 0.3                                | 72.4                              | 2.85   | 73.9   | 1.2   |
|         | 103.0  | 104.0 | 6,873                              | 13,021               | 1,299                              | 3,977                              | 288                                | 47.7                               | 82.8                               | 6.8                                | 23.3                               | 2.8                                | 5.4                                | 0.7                                | 4.0                                | 0.5                                | 85.1                              | 2.57   | 65.2   | 1.1   |
|         | 104.0  | 105.0 | 11,329                             | 22,050               | 2,332                              | 6,917                              | 506                                | 81.2                               | 136.6                              | 10.2                               | 32.3                               | 3.6                                | 6.4                                | 0.7                                | 3.6                                | 0.5                                | 94.0                              | 4.35   | 109.5  | 1.2   |
|         | 105.0  | 106.0 | 8,397                              | 16,092               | 1,704                              | 4,981                              | 378                                | 62.4                               | 110.9                              | 8.1                                | 23.9                               | 2.6                                | 3.9                                | 0.4                                | 2.3                                | 0.3                                | 63.5                              | 3.18   | 118    | 1     |
|         | 106.0  | 107.0 | 10,907                             | 21,497               | 2,126                              | 6,217                              | 395                                | 61.7                               | 104.8                              | 8.4                                | 25.7                               | 3.0                                | 5.2                                | 0.5                                | 3.0                                | 0.3                                | 78.7                              | 4.14   | 80.4   | 1.4   |
|         | 107.0  | 108.0 | 8,245                              | 16,338               | 1,643                              | 4,852                              | 324                                | 50.5                               | 89.4                               | 7.7                                | 25.8                               | 2.7                                | 5.2                                | 0.6                                | 3.1                                | 0.4                                | 76.2                              | 3.17   | 80.4   | 1.4   |
|         | 108.0  | 109.0 | 9,863                              | 20,023               | 2,012                              | 5,995                              | 387                                | 59.8                               | 103.3                              | 8.3                                | 24.7                               | 2.7                                | 4.8                                | 0.4                                | 2.5                                | 0.3                                | 71.1                              | 3.86   | 90.3   | 1.3   |
|         | 109.0  | 110.0 | 8,210                              | 17,136               | 1,800                              | 5,447                              | 388                                | 60.4                               | 107.9                              | 9.1                                | 25.9                               | 2.6                                | 4.6                                | 0.4                                | 2.2                                | 0.3                                | 66.0                              | 3.33   | 109    | 1.2   |
|         | 110.0  | 111.0 | 8,597                              | 17,259               | 1,782                              | 5,354                              | 387                                | 63.1                               | 114.6                              | 9.8                                | 29.3                               | 3.2                                | 5.8                                | 0.5                                | 2.5                                | 0.3                                | 82.5                              | 3.37   | 121    | 1.1   |
|         | 111.0  | 112.0 | 9,629                              | 19,593               | 1,981                              | 5,925                              | 399                                | 65.0                               | 123.3                              | 11.8                               | 38.1                               | 4.3                                | 8.1                                | 0.8                                | 4.0                                | 0.5                                | 119.4                             | 3.79   | 131    | 1.4   |
|         | 112.0  | 113.0 | 8,081                              | 17,566               | 1,915                              | 6,170                              | 514                                | 86.0                               | 153.3                              | 11.9                               | 34.1                               | 3.6                                | 6.2                                | 0.6                                | 3.0                                | 0.4                                | 90.2                              | 3.46   | 152    | 1.5   |
|         | 113.0  | 114.0 | 9,793                              | 19,409               | 1,981                              | 5,995                              | 435                                | 75.2                               | 143.5                              | 12.4                               | 40.2                               | 4.6                                | 8.7                                | 0.8                                | 4.7                                | 0.6                                | 124.5                             | 3.80   | 141.5  | 1.7   |
|         | 114.0  | 115.0 | 4,093                              | 10,220               | 1,121                              | 3,989                              | 328                                | 54.1                               | 93.3                               | 6.9                                | 20.4                               | 2.2                                | 4.1                                | 0.4                                | 2.3                                | 0.3                                | 58.4                              | 2.00   | 96     | 1     |
|         | 115.0  | 116.0 | 6,732                              | 14,372               | 1,540                              | 4,689                              | 330                                | 54.0                               | 93.5                               | 7.3                                | 22.5                               | 2.4                                | 4.1                                | 0.4                                | 1.8                                | 0.2                                | 61.0                              | 2.79   | 87.9   | 1.1   |
|         | 116.0  | 117.0 | 9,676                              | 19,716               | 2,060                              | 6,159                              | 422                                | 66.4                               | 117.0                              | 8.9                                | 26.6                               | 2.9                                | 5.3                                | 0.5                                | 2.7                                | 0.3                                | 76.2                              | 3.83   | 104.5  | 1.1   |
|         | 117.0  | 118.0 | 10,520                             | 21,374               | 2,175                              | 6,590                              | 455                                | 72.6                               | 127.9                              | 9.4                                | 28.0                               | 3.0                                | 5.5                                | 0.5                                | 2.5                                | 0.3                                | 77.5                              | 4.14   | 114.5  | 1.1   |
|         | 118.0  | 119.0 | 10,332                             | 20,453               | 2,072                              | 6,159                              | 430                                | 69.6                               | 126.8                              | 10.3                               | 33.5                               | 3.9                                | 7.2                                | 0.7                                | 4.4                                | 0.5                                | 105.4                             | 3.98   | 122.5  | 1.2   |
|         | 119.0  | 120.0 | 9,019                              | 18,119               | 1,873                              | 5,622                              | 404                                | 65.7                               | 119.9                              | 9.3                                | 30.3                               | 3.3                                | 6.3                                | 0.7                                | 3.5                                | 0.5                                | 90.2                              | 3.54   | 119    | 1.1   |
|         | 120.0  | 121.0 | 10,051                             | 20,023               | 2,048                              | 6,030                              | 409                                | 64.0                               | 114.0                              | 9.0                                | 27.9                               | 3.2                                | 6.1                                | 0.6                                | 3.2                                | 0.4                                | 88.9                              | 3.89   | 98.5   | 1.2   |
|         | 121.0  | 122.0 | 9,406                              | 17,750               | 1,758                              | 5,132                              | 357                                | 55.9                               | 101.2                              | 8.1                                | 26.7                               | 3.1                                | 5.8                                | 0.6                                | 3.3                                | 0.4                                | 90.2                              | 3.47   | 94.4   | 1.1   |
|         | 122.0  | 123.0 | 14,895                             | 27,393               | 2,670                              | 8,002                              | 531                                | 82.7                               | 144.7                              | 11.4                               | 37.5                               | 4.5                                | 8.8                                | 0.9                                | 5.2                                | 0.7                                | 127.0                             | 5.39   | 113.5  | 1.9   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 123.0  | 124.0 | 12,080                             | 22,971               | 2,277                              | 6,672                              | 468                                | 73.9                               | 133.1                              | 10.9                               | 33.1                               | 3.5                                | 5.8                                | 0.7                                | 3.6                                | 0.5                                | 92.7                              | 4.48   | 128.5  | 1.4   |
|         | 124.0  | 125.0 | 11,165                             | 21,251               | 2,108                              | 6,310                              | 445                                | 70.2                               | 123.3                              | 9.4                                | 26.2                               | 2.8                                | 4.8                                | 0.5                                | 2.6                                | 0.3                                | 72.4                              | 4.16   | 107    | 1.2   |
|         | 125.0  | 126.0 | 17,357                             | 33,044               | 3,226                              | 9,996                              | 630                                | 96.5                               | 163.7                              | 12.3                               | 38.9                               | 4.5                                | 8.1                                | 0.7                                | 3.6                                | 0.6                                | 120.6                             | 6.47   | 129.5  | 1.6   |
|         | 126.0  | 127.0 | 11,693                             | 21,558               | 2,132                              | 6,217                              | 444                                | 72.3                               | 131.4                              | 11.2                               | 35.4                               | 4.1                                | 7.7                                | 0.7                                | 3.6                                | 0.6                                | 114.3                             | 4.24   | 124    | 1.5   |
|         | 127.0  | 128.0 | 9,465                              | 18,426               | 1,824                              | 5,307                              | 362                                | 58.1                               | 105.7                              | 8.5                                | 27.1                               | 3.3                                | 6.3                                | 0.6                                | 3.4                                | 0.4                                | 90.2                              | 3.57   | 99.5   | 2.7   |
|         | 128.0  | 129.0 | 13,839                             | 25,059               | 2,465                              | 7,302                              | 486                                | 78.5                               | 137.7                              | 11.6                               | 38.7                               | 4.6                                | 9.5                                | 1.0                                | 5.5                                | 0.7                                | 133.3                             | 4.96   | 105.5  | 1.9   |
|         | 129.0  | 130.0 | 15,774                             | 28,867               | 2,839                              | 8,655                              | 573                                | 88.9                               | 149.3                              | 10.7                               | 31.5                               | 3.6                                | 6.5                                | 0.6                                | 3.3                                | 0.4                                | 99.1                              | 5.71   | 111    | 1.4   |
|         | 130.0  | 131.0 | 11,153                             | 21,804               | 2,235                              | 6,707                              | 455                                | 74.2                               | 125.1                              | 9.4                                | 27.2                               | 3.0                                | 5.2                                | 0.5                                | 2.9                                | 0.3                                | 78.7                              | 4.27   | 109    | 1.6   |
|         | 131.0  | 132.0 | 10,168                             | 19,900               | 1,975                              | 5,937                              | 391                                | 59.6                               | 98.4                               | 7.1                                | 20.2                               | 2.0                                | 3.2                                | 0.3                                | 1.5                                | 0.1                                | 53.3                              | 3.86   | 78     | 1.1   |
|         | 132.0  | 133.0 | 9,089                              | 17,935               | 1,885                              | 5,622                              | 375                                | 58.5                               | 98.9                               | 7.9                                | 21.8                               | 2.3                                | 4.0                                | 0.4                                | 2.2                                | 0.2                                | 59.7                              | 3.52   | 88.6   | 1.2   |
|         | 133.0  | 134.0 | 12,725                             | 24,814               | 2,477                              | 7,500                              | 488                                | 74.9                               | 127.4                              | 9.4                                | 28.6                               | 3.4                                | 6.4                                | 0.6                                | 3.4                                | 0.4                                | 86.4                              | 4.83   | 110.5  | 1.5   |
|         | 134.0  | 135.0 | 9,605                              | 18,549               | 1,849                              | 5,447                              | 368                                | 59.2                               | 106.7                              | 9.5                                | 32.8                               | 3.7                                | 6.4                                | 0.7                                | 3.6                                | 0.4                                | 102.9                             | 3.61   | 94.9   | 1.5   |
|         | 135.0  | 136.0 | 9,183                              | 18,549               | 1,885                              | 5,622                              | 382                                | 60.3                               | 105.6                              | 8.8                                | 30.5                               | 3.7                                | 6.6                                | 0.6                                | 3.4                                | 0.4                                | 99.1                              | 3.59   | 82.3   | 1.6   |
|         | 136.0  | 137.0 | 8,855                              | 17,505               | 1,722                              | 5,237                              | 365                                | 62.3                               | 115.0                              | 8.3                                | 29.3                               | 3.3                                | 9.0                                | 0.8                                | 4.9                                | 0.6                                | 101.6                             | 3.40   | 110    | 1.2   |
|         | 137.0  | 138.0 | 9,746                              | 18,917               | 1,812                              | 5,447                              | 386                                | 66.7                               | 114.7                              | 8.7                                | 26.5                               | 2.6                                | 5.2                                | 0.4                                | 2.4                                | 0.3                                | 71.1                              | 3.66   | 105    | 2     |
|         | 138.0  | 139.0 | 9,382                              | 18,979               | 1,945                              | 5,645                              | 388                                | 63.9                               | 109.2                              | 7.5                                | 23.0                               | 2.5                                | 4.5                                | 0.4                                | 2.2                                | 0.3                                | 67.3                              | 3.66   | 95.9   | 2.4   |
|         | 139.0  | 140.0 | 8,022                              | 16,768               | 1,758                              | 5,179                              | 350                                | 55.0                               | 90.7                               | 6.0                                | 18.7                               | 2.2                                | 4.1                                | 0.5                                | 2.9                                | 0.4                                | 61.0                              | 3.23   | 60.3   | 2.1   |
|         | 140.0  | 141.0 | 8,292                              | 16,338               | 1,673                              | 4,829                              | 333                                | 54.7                               | 99.9                               | 8.3                                | 25.7                               | 3.0                                | 5.4                                | 0.6                                | 3.3                                | 0.5                                | 83.8                              | 3.17   | 102    | 2.5   |
|         | 141.0  | 142.0 | 9,335                              | 18,242               | 1,873                              | 5,330                              | 355                                | 55.7                               | 94.6                               | 7.2                                | 22.2                               | 2.7                                | 4.8                                | 0.6                                | 3.3                                | 0.5                                | 81.3                              | 3.54   | 81     | 2.3   |
|         | 142.0  | 143.0 | 8,784                              | 17,320               | 1,752                              | 5,097                              | 344                                | 54.1                               | 87.9                               | 5.8                                | 16.9                               | 2.1                                | 4.1                                | 0.5                                | 2.9                                | 0.4                                | 57.2                              | 3.35   | 75.2   | 1.4   |
|         | 143.0  | 144.0 | 7,916                              | 15,416               | 1,553                              | 4,491                              | 304                                | 49.4                               | 87.9                               | 7.2                                | 24.2                               | 2.9                                | 5.6                                | 0.7                                | 4.3                                | 0.6                                | 88.9                              | 3.00   | 89.8   | 1.7   |
|         | 144.0  | 145.0 | 8,749                              | 17,750               | 1,812                              | 5,284                              | 353                                | 56.3                               | 93.1                               | 6.3                                | 19.1                               | 2.3                                | 4.9                                | 0.6                                | 3.2                                | 0.4                                | 68.6                              | 3.42   | 82.7   | 1.3   |
|         | 145.0  | 146.0 | 7,436                              | 14,741               | 1,462                              | 4,362                              | 306                                | 54.5                               | 104.7                              | 9.2                                | 31.7                               | 4.2                                | 8.2                                | 1.0                                | 5.6                                | 0.8                                | 128.3                             | 2.87   | 113    | 1.2   |
|         | 146.0  | 147.0 | 7,412                              | 15,171               | 1,565                              | 4,607                              | 326                                | 55.4                               | 100.3                              | 8.8                                | 30.6                               | 3.7                                | 6.9                                | 0.8                                | 4.4                                | 0.5                                | 109.2                             | 2.94   | 115    | 3.6   |
|         | 147.0  | 148.0 | 13,311                             | 26,165               | 2,706                              | 8,200                              | 533                                | 84.6                               | 138.9                              | 8.7                                | 25.4                               | 3.0                                | 6.0                                | 0.6                                | 3.8                                | 0.4                                | 83.8                              | 5.13   | 118.5  | 1.6   |
|         | 148.0  | 149.0 | 16,126                             | 31,324               | 3,202                              | 9,728                              | 637                                | 100.6                              | 164.3                              | 10.2                               | 27.4                               | 2.9                                | 4.8                                | 0.5                                | 2.7                                | 0.4                                | 76.2                              | 6.14   | 139    | 1     |
|         | 149.0  | 150.0 | 17,885                             | 34,641               | 3,492                              | 10,498                             | 664                                | 102.4                              | 159.1                              | 9.4                                | 26.7                               | 3.0                                | 4.8                                | 0.5                                | 2.2                                | 0.3                                | 77.5                              | 6.76   | 137.5  | 1     |
|         | 150.0  | 151.0 | 10,813                             | 20,760               | 2,084                              | 5,972                              | 397                                | 64.2                               | 106.7                              | 7.5                                | 23.8                               | 3.0                                | 4.7                                | 0.5                                | 2.9                                | 0.4                                | 82.5                              | 4.03   | 101.5  | 0.9   |
|         | 151.0  | 152.0 | 11,048                             | 21,927               | 2,229                              | 6,334                              | 437                                | 70.9                               | 119.9                              | 8.9                                | 30.1                               | 3.7                                | 6.6                                | 0.6                                | 2.6                                | 0.3                                | 101.6                             | 4.23   | 127    | 1.4   |
|         | 152.0  | 153.0 | 16,830                             | 32,430               | 3,238                              | 9,704                              | 602                                | 95.8                               | 155.6                              | 11.7                               | 39.1                               | 4.7                                | 7.8                                | 0.7                                | 3.0                                | 0.4                                | 127.0                             | 6.32   | 149    | 1.6   |
|         | 153.0  | 154.0 | 19,938                             | 38,203               | 3,770                              | 11,349                             | 697                                | 109.0                              | 174.6                              | 12.6                               | 42.4                               | 5.0                                | 7.9                                | 0.6                                | 2.7                                | 0.3                                | 129.5                             | 7.44   | 165    | 1.6   |
|         | 154.0  | 155.0 | 8,667                              | 16,891               | 1,728                              | 4,922                              | 342                                | 57.3                               | 100.7                              | 7.9                                | 27.2                               | 3.4                                | 5.5                                | 0.5                                | 2.6                                | 0.4                                | 88.9                              | 3.28   | 137.5  | 1.2   |
|         | 155.0  | 156.0 | 6,920                              | 13,942               | 1,395                              | 4,222                              | 304                                | 51.0                               | 95.7                               | 8.8                                | 31.0                               | 3.8                                | 7.2                                | 0.7                                | 4.0                                | 0.5                                | 110.5                             | 2.71   | 137.5  | 1.6   |
|         | 156.0  | 157.0 | 11,787                             | 22,480               | 2,235                              | 6,205                              | 393                                | 63.1                               | 109.4                              | 9.0                                | 31.7                               | 3.7                                | 6.3                                | 0.6                                | 2.6                                | 0.3                                | 101.6                             | 4.34   | 94.4   | 1.5   |
|         | 157.0  | 158.0 | 6,861                              | 13,267               | 1,263                              | 3,721                              | 244                                | 40.3                               | 71.6                               | 6.2                                | 23.1                               | 3.1                                | 5.6                                | 0.5                                | 2.9                                | 0.3                                | 87.6                              | 2.56   | 88.7   | 1     |
|         | 158.0  | 159.0 | 10,743                             | 20,576               | 2,036                              | 5,669                              | 357                                | 57.6                               | 102.4                              | 8.3                                | 27.9                               | 3.4                                | 5.8                                | 0.5                                | 2.5                                | 0.3                                | 92.7                              | 3.97   | 87.6   | 1.3   |
|         | 159.0  | 160.0 | 5,125                              | 9,680                | 919                                | 2,741                              | 184                                | 30.5                               | 54.5                               | 4.9                                | 18.8                               | 2.7                                | 5.5                                | 0.6                                | 3.5                                | 0.4                                | 78.7                              | 1.88   | 82.1   | 0.8   |
|         | 160.0  | 161.0 | 6,802                              | 12,898               | 1,220                              | 3,639                              | 242                                | 39.5                               | 68.8                               | 5.9                                | 21.6                               | 2.9                                | 5.7                                | 0.6                                | 3.3                                | 0.5                                | 87.6                              | 2.50   | 86.1   | 0.9   |
|         | 161.0  | 162.0 | 9,148                              | 17,689               | 1,758                              | 4,922                              | 307                                | 49.0                               | 84.4                               | 7.2                                | 27.3                               | 3.8                                | 7.3                                | 0.8                                | 4.4                                | 0.5                                | 110.5                             | 3.41   | 100    | 1.3   |
|         | 162.0  | 163.0 | 11,423                             | 20,637               | 2,006                              | 5,599                              | 372                                | 61.8                               | 107.4                              | 8.5                                | 29.8                               | 3.8                                | 7.3                                | 0.6                                | 3.0                                | 0.3                                | 102.9                             | 4.04   | 98.2   | 1.5   |
|         | 163.0  | 164.0 | 16,595                             | 29,604               | 2,815                              | 8,095                              | 485                                | 79.2                               | 133.1                              | 10.5                               | 37.6                               | 4.6                                | 7.1                                | 0.6                                | 3.0                                | 0.3                                | 115.6                             | 5.80   | 109.5  | 1.8   |
|         | 164.0  | 165.0 | 15,188                             | 26,288               | 2,428                              | 6,625                              | 402                                | 66.7                               | 114.0                              | 9.3                                | 31.9                               | 3.8                                | 6.3                                | 0.6                                | 2.9                                | 0.3                                | 101.6                             | 5.13   | 85.6   | 1.5   |
|         | 165.0  | 166.0 | 18,296                             | 31,938               | 2,984                              | 8,410                              | 500                                | 79.3                               | 133.1                              | 10.4                               | 36.0                               | 4.5                                | 7.9                                | 0.8                                | 3.9                                | 0.5                                | 123.2                             | 6.25   | 111.5  | 1.6   |
|         | 166.0  | 167.0 | 23,573                             | 40,906               | 3,806                              | 10,649                             | 616                                | 98.4                               | 166.6                              | 12.8                               | 43.6                               | 5.3                                | 8.8                                | 0.7                                | 3.8                                | 0.5                                | 137.2                             | 8.00   | 126.5  | 2.3   |
|         | 167.0  | 168.0 | 20,348                             | 34,641               | 3,165                              | 8,900                              | 542                                | 89.2                               | 148.7                              | 10.8                               | 35.2                               | 4.0                                | 6.9                                | 0.6                                | 2.9                                | 0.4                                | 106.7                             | 6.80   | 117.5  | 1.5   |
|         | 168.0  | 169.0 | 16,771                             | 28,867               | 2,682                              | 7,652                              | 477                                | 76.8                               | 132.0                              | 9.8                                | 32.3                               | 3.9                                | 7.0                                | 0.7                                | 3.8                                | 0.5                                | 109.2                             | 5.68   | 103    | 1.5   |

| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 169.0  | 170.0 | 11,493                             | 20,023               | 1,885                              | 5,132                              | 322                                | 52.2                               | 90.6                               | 6.9                                | 23.5                               | 2.9                                | 5.2                                | 0.6                                | 2.6                                | 0.3                                | 78.7                              | 3.91   | 79.8   | 1.3   |
|                 | 170.0  | 171.0 | 14,836                             | 25,182               | 2,501                              | 6,847                              | 424                                | 68.0                               | 115.8                              | 9.3                                | 32.3                               | 4.1                                | 7.3                                | 0.8                                | 3.3                                | 0.5                                | 110.5                             | 5.01   | 109    | 1.7   |
|                 | 171.0  | 172.0 | 14,660                             | 24,814               | 2,465                              | 6,753                              | 426                                | 68.8                               | 117.6                              | 9.0                                | 30.9                               | 3.9                                | 7.3                                | 0.7                                | 3.3                                | 0.4                                | 107.9                             | 4.95   | 99.2   | 1.7   |
|                 | 172.0  | 173.0 | 16,419                             | 28,745               | 2,598                              | 7,337                              | 464                                | 78.4                               | 134.3                              | 9.7                                | 33.6                               | 3.8                                | 7.8                                | 0.6                                | 4.0                                | 0.5                                | 113.0                             | 5.59   | 100    | 1.5   |
|                 | 173.0  | 174.0 | 19,762                             | 35,255               | 3,178                              | 8,830                              | 538                                | 90.6                               | 158.5                              | 12.2                               | 44.2                               | 5.1                                | 9.6                                | 1.0                                | 4.4                                | 0.7                                | 139.7                             | 6.80   | 96.3   | 2     |
|                 | 174.0  | 175.0 | 14,367                             | 24,937               | 2,241                              | 6,205                              | 402                                | 67.5                               | 116.4                              | 8.4                                | 27.9                               | 3.1                                | 6.0                                | 0.6                                | 3.3                                | 0.4                                | 82.5                              | 4.85   | 85     | 1.3   |
|                 | 175.0  | 176.0 | 10,309                             | 17,689               | 1,607                              | 4,502                              | 314                                | 53.2                               | 92.7                               | 6.5                                | 19.7                               | 2.2                                | 4.2                                | 0.3                                | 1.9                                | 0.2                                | 57.2                              | 3.47   | 66     | 1.4   |
|                 | 176.0  | 177.0 | 9,898                              | 16,891               | 1,492                              | 4,199                              | 282                                | 50.7                               | 87.6                               | 6.3                                | 19.7                               | 2.1                                | 4.5                                | 0.4                                | 2.1                                | 0.2                                | 59.7                              | 3.30   | 63.4   | 1.7   |
|                 | 177.0  | 178.0 | 11,505                             | 20,084               | 1,836                              | 5,202                              | 365                                | 67.7                               | 117.0                              | 7.8                                | 23.1                               | 2.5                                | 4.6                                | 0.4                                | 2.1                                | 0.3                                | 62.2                              | 3.93   | 83.1   | 1.4   |
|                 | 178.0  | 179.0 | 9,347                              | 15,908               | 1,402                              | 3,896                              | 274                                | 46.9                               | 84.3                               | 5.8                                | 18.6                               | 2.1                                | 3.4                                | 0.3                                | 1.7                                | 0.4                                | 52.1                              | 3.10   | 58.3   | 1.1   |
|                 | 179.0  | 180.0 | 11,364                             | 20,207               | 1,909                              | 5,505                              | 407                                | 73.2                               | 125.6                              | 8.7                                | 25.8                               | 2.6                                | 3.9                                | 0.4                                | 1.6                                | 0.3                                | 64.8                              | 3.97   | 89.4   | 1.4   |
|                 | 180.0  | 181.0 | 13,135                             | 22,787               | 2,132                              | 5,832                              | 370                                | 60.3                               | 107.1                              | 8.2                                | 26.7                               | 3.2                                | 5.5                                | 0.4                                | 2.3                                | 0.3                                | 78.7                              | 4.45   | 82.6   | 1.6   |
| <b>KGKRC026</b> | 0.0    | 1.0   | 2,451                              | 5,073                | 584                                | 2,076                              | 235                                | 48.4                               | 89.8                               | 6.4                                | 21.8                               | 2.9                                | 6.8                                | 0.7                                | 4.8                                | 0.9                                | 76.2                              | 1.07   | 81.1   | 6.6   |
|                 | 1.0    | 2.0   | 2,744                              | 5,540                | 634                                | 2,164                              | 255                                | 50.1                               | 95.9                               | 7.1                                | 23.0                               | 2.9                                | 6.9                                | 0.8                                | 5.1                                | 0.9                                | 81.3                              | 1.16   | 87.4   | 5.9   |
|                 | 2.0    | 3.0   | 4,492                              | 8,390                | 904                                | 2,904                              | 273                                | 51.4                               | 97.2                               | 7.0                                | 24.2                               | 3.1                                | 7.0                                | 0.8                                | 5.4                                | 0.9                                | 88.9                              | 1.72   | 72.1   | 9.4   |
|                 | 3.0    | 4.0   | 3,741                              | 6,916                | 756                                | 2,496                              | 248                                | 48.5                               | 88.4                               | 6.5                                | 20.5                               | 2.8                                | 5.6                                | 0.6                                | 3.8                                | 0.6                                | 67.3                              | 1.44   | 67.7   | 7     |
|                 | 4.0    | 5.0   | 3,647                              | 7,518                | 863                                | 2,928                              | 264                                | 46.7                               | 79.1                               | 4.8                                | 13.5                               | 1.3                                | 2.2                                | 0.2                                | 1.5                                | 0.2                                | 29.2                              | 1.54   | 42.3   | 6.6   |
|                 | 5.0    | 6.0   | 3,706                              | 7,702                | 903                                | 3,056                              | 275                                | 50.4                               | 87.8                               | 6.2                                | 21.4                               | 2.6                                | 5.6                                | 0.6                                | 3.4                                | 0.4                                | 66.0                              | 1.59   | 51.8   | 12.2  |
|                 | 6.0    | 7.0   | 2,639                              | 4,963                | 529                                | 1,732                              | 170                                | 35.2                               | 73.8                               | 6.9                                | 27.5                               | 4.0                                | 10.0                               | 1.1                                | 5.5                                | 0.7                                | 113.0                             | 1.03   | 45.7   | 6.9   |
|                 | 7.0    | 8.0   | 2,305                              | 4,361                | 460                                | 1,522                              | 151                                | 32.5                               | 68.4                               | 6.5                                | 25.9                               | 3.8                                | 8.5                                | 0.8                                | 4.7                                | 0.6                                | 99.1                              | 0.90   | 42.6   | 8.8   |
|                 | 8.0    | 9.0   | 2,791                              | 5,110                | 547                                | 1,767                              | 161                                | 32.7                               | 66.3                               | 5.8                                | 23.6                               | 3.3                                | 7.0                                | 0.8                                | 4.3                                | 0.6                                | 85.1                              | 1.06   | 36.5   | 4.6   |
|                 | 9.0    | 10.0  | 2,862                              | 5,909                | 680                                | 2,356                              | 244                                | 43.8                               | 81.6                               | 5.7                                | 19.2                               | 2.5                                | 5.3                                | 0.7                                | 3.4                                | 0.6                                | 66.0                              | 1.23   | 48.6   | 9     |
|                 | 10.0   | 11.0  | 2,123                              | 4,656                | 534                                | 1,884                              | 208                                | 40.9                               | 81.6                               | 6.1                                | 24.8                               | 3.6                                | 9.2                                | 1.1                                | 7.3                                | 1.1                                | 106.7                             | 0.97   | 53.8   | 14.4  |
|                 | 11.0   | 12.0  | 475                                | 948                  | 110                                | 373                                | 42                                 | 8.6                                | 18.9                               | 1.8                                | 8.3                                | 1.2                                | 3.8                                | 0.4                                | 2.9                                | 0.4                                | 38.1                              | 0.20   | 21.8   | 3.1   |
|                 | 12.0   | 13.0  | 1,407                              | 3,526                | 382                                | 1,248                              | 113                                | 20.0                               | 36.5                               | 2.9                                | 9.8                                | 1.2                                | 2.7                                | 0.4                                | 2.5                                | 0.4                                | 30.5                              | 0.68   | 33.3   | 5.2   |
|                 | 13.0   | 14.0  | 3,284                              | 7,272                | 813                                | 2,671                              | 249                                | 44.8                               | 80.2                               | 5.5                                | 15.7                               | 1.6                                | 2.4                                | 0.3                                | 1.4                                | 0.1                                | 35.6                              | 1.45   | 52.8   | 6.3   |
|                 | 14.0   | 15.0  | 2,381                              | 5,294                | 579                                | 1,930                              | 197                                | 35.0                               | 62.9                               | 4.8                                | 14.9                               | 1.8                                | 4.0                                | 0.5                                | 3.1                                | 0.5                                | 49.5                              | 1.06   | 42.4   | 5.7   |
|                 | 15.0   | 16.0  | 2,439                              | 5,479                | 605                                | 2,012                              | 196                                | 34.2                               | 60.9                               | 4.2                                | 11.1                               | 1.3                                | 2.5                                | 0.2                                | 1.5                                | 0.2                                | 30.5                              | 1.09   | 34.5   | 7     |
|                 | 16.0   | 17.0  | 5,817                              | 10,994               | 1,141                              | 3,441                              | 311                                | 54.9                               | 94.5                               | 6.5                                | 17.2                               | 1.6                                | 3.0                                | 0.2                                | 1.4                                | 0.1                                | 39.4                              | 2.19   | 53.3   | 10    |
|                 | 17.0   | 18.0  | 5,043                              | 9,508                | 969                                | 3,009                              | 263                                | 47.6                               | 80.9                               | 5.5                                | 14.8                               | 1.5                                | 2.4                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 1.90   | 43.3   | 9.2   |
|                 | 18.0   | 19.0  | 4,128                              | 7,763                | 803                                | 2,543                              | 233                                | 42.7                               | 72.7                               | 4.9                                | 14.6                               | 1.5                                | 2.6                                | 0.3                                | 1.4                                | 0.2                                | 34.3                              | 1.56   | 38.3   | 5.7   |
|                 | 19.0   | 20.0  | 3,213                              | 5,995                | 616                                | 2,006                              | 213                                | 39.5                               | 70.3                               | 5.1                                | 14.5                               | 1.5                                | 2.9                                | 0.3                                | 1.7                                | 0.2                                | 34.3                              | 1.22   | 36.1   | 6.5   |
|                 | 20.0   | 21.0  | 4,726                              | 8,513                | 864                                | 2,636                              | 223                                | 40.2                               | 66.9                               | 4.6                                | 13.9                               | 1.4                                | 2.2                                | 0.3                                | 1.5                                | 0.2                                | 35.6                              | 1.71   | 36.7   | 7.3   |
|                 | 21.0   | 22.0  | 3,237                              | 6,375                | 669                                | 2,135                              | 202                                | 35.7                               | 60.2                               | 4.0                                | 10.6                               | 1.2                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 1.28   | 35.5   | 5     |
|                 | 22.0   | 23.0  | 2,920                              | 5,859                | 636                                | 2,030                              | 187                                | 33.9                               | 58.6                               | 3.9                                | 10.4                               | 1.0                                | 1.8                                | 0.1                                | 1.0                                | 0.2                                | 22.9                              | 1.18   | 30.4   | 8     |
|                 | 23.0   | 24.0  | 1,976                              | 4,557                | 500                                | 1,650                              | 165                                | 30.7                               | 51.3                               | 3.4                                | 9.3                                | 1.0                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 24.1                              | 0.90   | 25.4   | 7.5   |
|                 | 24.0   | 25.0  | 2,099                              | 4,950                | 547                                | 1,872                              | 194                                | 34.9                               | 60.4                               | 3.9                                | 10.6                               | 1.1                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 24.1                              | 0.98   | 31.4   | 6.4   |
|                 | 25.0   | 26.0  | 2,885                              | 5,786                | 608                                | 1,995                              | 201                                | 36.9                               | 64.0                               | 4.3                                | 12.6                               | 1.3                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 1.16   | 36.7   | 5.4   |
|                 | 26.0   | 27.0  | 2,744                              | 5,577                | 610                                | 2,041                              | 217                                | 40.9                               | 72.0                               | 5.3                                | 15.8                               | 1.9                                | 3.8                                | 0.4                                | 2.6                                | 0.3                                | 47.0                              | 1.14   | 47.3   | 3.9   |
|                 | 27.0   | 28.0  | 2,522                              | 5,135                | 538                                | 1,738                              | 176                                | 35.2                               | 64.2                               | 4.8                                | 15.6                               | 1.8                                | 3.4                                | 0.4                                | 2.4                                | 0.3                                | 45.7                              | 1.03   | 47.1   | 5.7   |
|                 | 28.0   | 29.0  | 4,433                              | 9,238                | 1,002                              | 3,266                              | 306                                | 52.8                               | 94.1                               | 6.9                                | 20.7                               | 2.1                                | 4.2                                | 0.5                                | 3.0                                | 0.4                                | 54.6                              | 1.85   | 58.9   | 8.5   |
|                 | 29.0   | 30.0  | 2,967                              | 6,117                | 651                                | 2,070                              | 182                                | 31.2                               | 51.5                               | 3.3                                | 9.2                                | 1.0                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 22.9                              | 1.21   | 27.7   | 9.7   |
|                 | 30.0   | 31.0  | 3,225                              | 6,633                | 718                                | 2,315                              | 205                                | 34.2                               | 56.0                               | 3.7                                | 11.0                               | 1.2                                | 2.3                                | 0.2                                | 1.0                                | 0.2                                | 26.7                              | 1.32   | 29.2   | 14.2  |
|                 | 31.0   | 32.0  | 6,673                              | 13,021               | 1,365                              | 4,234                              | 334                                | 51.5                               | 82.0                               | 4.9                                | 14.2                               | 1.5                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 2.58   | 44.8   | 11.2  |
|                 | 32.0   | 33.0  | 2,862                              | 5,651                | 580                                | 1,837                              | 183                                | 34.5                               | 66.6                               | 5.6                                | 20.2                               | 2.6                                | 5.5                                | 0.6                                | 3.1                                | 0.5                                | 68.6                              | 1.13   | 43.5   | 8.2   |
|                 | 33.0   | 34.0  | 2,316                              | 4,778                | 498                                | 1,598                              | 164                                | 32.8                               | 64.8                               | 5.9                                | 24.0                               | 3.4                                | 7.6                                | 0.9                                | 4.8                                | 0.6                                | 96.5                              | 0.96   | 47.9   | 7     |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 34.0   | 35.0 | 2,686                              | 6,081                | 684                                | 2,263                              | 203                                | 33.0                               | 53.8                               | 3.6                                | 9.6                                | 1.0                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 20.3                              | 1.20   | 40.5   | 8.4   |
|         | 35.0   | 36.0 | 3,507                              | 6,990                | 755                                | 2,473                              | 234                                | 42.6                               | 78.6                               | 6.4                                | 22.8                               | 2.9                                | 6.4                                | 0.7                                | 4.0                                | 0.5                                | 85.1                              | 1.42   | 51.9   | 8.2   |
|         | 36.0   | 37.0 | 3,671                              | 7,506                | 806                                | 2,636                              | 244                                | 43.0                               | 74.0                               | 5.3                                | 16.1                               | 1.9                                | 3.8                                | 0.4                                | 2.5                                | 0.3                                | 52.1                              | 1.51   | 46.6   | 9.3   |
|         | 37.0   | 38.0 | 2,897                              | 6,683                | 758                                | 2,484                              | 216                                | 33.9                               | 55.0                               | 3.5                                | 8.5                                | 0.8                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 16.5                              | 1.32   | 37.9   | 9.2   |
|         | 38.0   | 39.0 | 6,415                              | 13,758               | 1,510                              | 4,817                              | 420                                | 70.6                               | 117.0                              | 7.6                                | 21.4                               | 2.1                                | 3.3                                | 0.4                                | 1.7                                | 0.2                                | 47.0                              | 2.72   | 81.9   | 8.2   |
|         | 39.0   | 40.0 | 7,952                              | 15,048               | 1,540                              | 4,549                              | 324                                | 50.0                               | 78.5                               | 4.9                                | 13.3                               | 1.3                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 29.2                              | 2.96   | 45.5   | 5.1   |
|         | 40.0   | 41.0 | 4,398                              | 9,311                | 996                                | 3,173                              | 259                                | 40.5                               | 67.1                               | 4.6                                | 12.6                               | 1.3                                | 2.3                                | 0.3                                | 1.3                                | 0.2                                | 29.2                              | 1.83   | 39.3   | 2.7   |
|         | 41.0   | 42.0 | 4,210                              | 8,832                | 985                                | 3,208                              | 262                                | 42.0                               | 74.6                               | 4.4                                | 11.8                               | 1.3                                | 1.9                                | 0.2                                | 0.9                                | 0.2                                | 26.7                              | 1.77   | 38.8   | 3.2   |
|         | 42.0   | 43.0 | 3,894                              | 8,157                | 913                                | 2,998                              | 249                                | 40.9                               | 69.5                               | 4.2                                | 11.7                               | 1.1                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 1.64   | 36.2   | 3.1   |
|         | 43.0   | 44.0 | 2,486                              | 5,479                | 619                                | 2,059                              | 180                                | 28.0                               | 48.9                               | 3.0                                | 8.6                                | 0.9                                | 1.3                                | 0.1                                | 0.6                                | 0.1                                | 17.8                              | 1.09   | 30.3   | 8.7   |
|         | 44.0   | 45.0 | 1,724                              | 4,066                | 458                                | 1,551                              | 145                                | 24.7                               | 49.1                               | 3.8                                | 13.2                               | 1.8                                | 3.5                                | 0.4                                | 2.1                                | 0.3                                | 48.3                              | 0.81   | 41     | 11.4  |
|         | 45.0   | 46.0 | 1,718                              | 3,612                | 391                                | 1,295                              | 125                                | 25.4                               | 57.6                               | 5.9                                | 27.2                               | 4.3                                | 10.4                               | 1.3                                | 6.8                                | 0.8                                | 125.7                             | 0.74   | 44.3   | 8.7   |
|         | 46.0   | 47.0 | 2,158                              | 4,152                | 419                                | 1,336                              | 136                                | 28.0                               | 66.2                               | 6.5                                | 29.5                               | 4.1                                | 8.6                                | 1.0                                | 5.6                                | 0.8                                | 118.1                             | 0.85   | 44.9   | 6.2   |
|         | 47.0   | 48.0 | 2,651                              | 4,877                | 492                                | 1,592                              | 155                                | 30.0                               | 64.7                               | 5.9                                | 24.8                               | 3.4                                | 7.3                                | 0.9                                | 4.7                                | 0.7                                | 95.2                              | 1.00   | 50.5   | 8.1   |
|         | 48.0   | 49.0 | 2,152                              | 4,177                | 435                                | 1,446                              | 155                                | 30.6                               | 63.7                               | 6.0                                | 25.8                               | 3.5                                | 7.7                                | 0.8                                | 4.9                                | 0.6                                | 99.1                              | 0.86   | 48.4   | 8.7   |
|         | 49.0   | 50.0 | 1,859                              | 3,796                | 393                                | 1,283                              | 125                                | 25.2                               | 56.1                               | 5.4                                | 21.8                               | 3.4                                | 7.2                                | 0.8                                | 4.3                                | 0.6                                | 90.2                              | 0.77   | 49.9   | 8.6   |
|         | 50.0   | 51.0 | 1,064                              | 2,076                | 211                                | 682                                | 70                                 | 14.6                               | 34.2                               | 3.4                                | 15.4                               | 2.4                                | 4.9                                | 0.6                                | 3.3                                | 0.6                                | 63.5                              | 0.42   | 24.1   | 5.2   |
|         | 51.0   | 52.0 | 2,287                              | 4,312                | 430                                | 1,353                              | 135                                | 28.7                               | 66.6                               | 6.8                                | 28.8                               | 4.1                                | 8.7                                | 1.0                                | 5.5                                | 0.7                                | 115.6                             | 0.88   | 56.1   | 8.9   |
|         | 52.0   | 53.0 | 2,111                              | 4,054                | 411                                | 1,295                              | 128                                | 26.8                               | 61.2                               | 6.1                                | 28.1                               | 3.9                                | 8.7                                | 1.0                                | 5.7                                | 0.8                                | 115.6                             | 0.83   | 56.9   | 9.6   |
|         | 53.0   | 54.0 | 2,651                              | 4,570                | 455                                | 1,406                              | 138                                | 27.9                               | 61.9                               | 5.8                                | 25.1                               | 3.6                                | 7.7                                | 0.9                                | 5.0                                | 0.7                                | 99.1                              | 0.95   | 59.3   | 9.7   |
|         | 54.0   | 55.0 | 2,627                              | 4,643                | 455                                | 1,411                              | 136                                | 26.4                               | 57.8                               | 5.7                                | 24.2                               | 3.6                                | 8.2                                | 0.9                                | 5.4                                | 0.8                                | 100.3                             | 0.95   | 62.7   | 8.6   |
|         | 55.0   | 56.0 | 2,475                              | 4,570                | 463                                | 1,452                              | 144                                | 30.5                               | 65.0                               | 6.2                                | 27.2                               | 3.7                                | 7.7                                | 0.9                                | 5.1                                | 0.7                                | 101.6                             | 0.94   | 68.8   | 7.3   |
|         | 56.0   | 57.0 | 2,545                              | 4,692                | 464                                | 1,458                              | 140                                | 30.1                               | 67.9                               | 6.9                                | 31.2                               | 4.8                                | 10.6                               | 1.3                                | 7.2                                | 1.1                                | 133.3                             | 0.96   | 41     | 7.6   |
|         | 57.0   | 58.0 | 2,557                              | 4,778                | 494                                | 1,580                              | 162                                | 32.0                               | 72.5                               | 6.6                                | 26.1                               | 3.5                                | 7.8                                | 1.0                                | 6.4                                | 0.8                                | 100.3                             | 0.98   | 67.1   | 9.3   |
|         | 58.0   | 59.0 | 2,428                              | 4,987                | 556                                | 1,837                              | 185                                | 35.9                               | 79.1                               | 6.8                                | 27.4                               | 3.5                                | 7.7                                | 1.0                                | 5.8                                | 1.0                                | 105.4                             | 1.03   | 53.5   | 10.4  |
|         | 59.0   | 60.0 | 3,143                              | 5,810                | 600                                | 1,901                              | 181                                | 33.4                               | 73.0                               | 6.9                                | 27.2                               | 3.6                                | 7.6                                | 1.0                                | 7.0                                | 1.1                                | 106.7                             | 1.19   | 66.5   | 8.9   |
|         | 60.0   | 61.0 | 4,210                              | 8,058                | 878                                | 2,881                              | 270                                | 46.7                               | 91.6                               | 6.6                                | 22.5                               | 2.6                                | 5.6                                | 0.6                                | 3.5                                | 0.6                                | 71.1                              | 1.65   | 73.4   | 11.2  |
|         | 61.0   | 62.0 | 6,814                              | 13,574               | 1,474                              | 4,817                              | 431                                | 73.0                               | 132.0                              | 8.0                                | 23.3                               | 2.2                                | 3.3                                | 0.3                                | 1.6                                | 0.3                                | 48.3                              | 2.74   | 103    | 35.8  |
|         | 62.0   | 63.0 | 3,096                              | 6,646                | 745                                | 2,543                              | 244                                | 42.3                               | 79.9                               | 5.6                                | 17.7                               | 1.8                                | 3.0                                | 0.4                                | 2.2                                | 0.3                                | 40.6                              | 1.35   | 130.5  | 105   |
|         | 63.0   | 64.0 | 4,011                              | 8,120                | 912                                | 3,103                              | 306                                | 55.5                               | 109.6                              | 7.9                                | 25.9                               | 2.7                                | 4.2                                | 0.4                                | 2.6                                | 0.5                                | 62.2                              | 1.67   | 89.4   | 31.2  |
|         | 64.0   | 65.0 | 2,234                              | 4,926                | 557                                | 1,965                              | 204                                | 39.1                               | 81.3                               | 6.8                                | 22.8                               | 2.5                                | 4.2                                | 0.6                                | 3.4                                | 0.6                                | 66.0                              | 1.01   | 83.7   | 30.7  |
|         | 65.0   | 66.0 | 2,299                              | 5,110                | 581                                | 2,041                              | 219                                | 40.8                               | 83.0                               | 6.5                                | 20.2                               | 2.2                                | 3.9                                | 0.5                                | 3.4                                | 0.7                                | 59.7                              | 1.05   | 78.2   | 28.4  |
|         | 66.0   | 67.0 | 2,815                              | 6,265                | 731                                | 2,531                              | 241                                | 43.0                               | 82.1                               | 5.9                                | 21.7                               | 2.7                                | 5.4                                | 0.7                                | 4.9                                | 0.8                                | 76.2                              | 1.28   | 55.1   | 21.1  |
|         | 67.0   | 68.0 | 2,269                              | 4,889                | 558                                | 1,965                              | 209                                | 40.4                               | 78.8                               | 6.3                                | 24.1                               | 3.0                                | 6.6                                | 0.9                                | 5.6                                | 0.9                                | 90.2                              | 1.01   | 59.3   | 23.1  |
|         | 68.0   | 69.0 | 2,346                              | 4,852                | 546                                | 1,901                              | 215                                | 42.3                               | 86.7                               | 7.6                                | 28.6                               | 3.9                                | 8.7                                | 1.1                                | 7.7                                | 1.2                                | 119.4                             | 1.02   | 49.3   | 14    |
|         | 69.0   | 70.0 | 1,906                              | 4,189                | 471                                | 1,662                              | 198                                | 41.6                               | 86.9                               | 7.3                                | 28.7                               | 3.8                                | 8.6                                | 1.2                                | 7.6                                | 1.2                                | 114.3                             | 0.87   | 48.6   | 9.9   |
|         | 70.0   | 71.0 | 2,686                              | 5,921                | 696                                | 2,403                              | 250                                | 46.6                               | 91.6                               | 6.8                                | 23.3                               | 2.8                                | 5.8                                | 0.8                                | 5.0                                | 1.1                                | 78.7                              | 1.22   | 58.5   | 11    |
|         | 71.0   | 72.0 | 2,117                              | 4,398                | 460                                | 1,446                              | 143                                | 27.4                               | 55.2                               | 5.0                                | 19.7                               | 2.7                                | 6.1                                | 0.8                                | 5.6                                | 0.9                                | 76.2                              | 0.88   | 43.8   | 11.8  |
|         | 72.0   | 73.0 | 1,753                              | 3,722                | 406                                | 1,330                              | 159                                | 35.1                               | 76.4                               | 7.7                                | 33.4                               | 4.6                                | 10.9                               | 1.3                                | 8.8                                | 1.1                                | 132.1                             | 0.77   | 60.9   | 11.4  |
|         | 73.0   | 74.0 | 5,958                              | 10,269               | 1,046                              | 3,149                              | 295                                | 57.9                               | 121.0                              | 11.2                               | 45.2                               | 5.5                                | 12.4                               | 1.4                                | 8.7                                | 1.2                                | 163.8                             | 2.11   | 83.1   | 11.8  |
|         | 74.0   | 75.0 | 1,841                              | 3,894                | 422                                | 1,394                              | 159                                | 33.1                               | 72.5                               | 7.5                                | 34.1                               | 4.5                                | 10.4                               | 1.2                                | 7.6                                | 1.2                                | 135.9                             | 0.80   | 67.8   | 9.7   |
|         | 75.0   | 76.0 | 1,900                              | 3,808                | 400                                | 1,271                              | 157                                | 34.0                               | 80.8                               | 7.9                                | 35.8                               | 5.0                                | 10.9                               | 1.3                                | 8.1                                | 1.1                                | 146.0                             | 0.79   | 68.6   | 9.7   |
|         | 76.0   | 77.0 | 1,560                              | 3,292                | 354                                | 1,184                              | 161                                | 38.7                               | 87.8                               | 8.9                                | 37.6                               | 5.0                                | 11.9                               | 1.5                                | 10.1                               | 1.5                                | 146.0                             | 0.69   | 80.6   | 11.8  |
|         | 77.0   | 78.0 | 3,636                              | 7,149                | 794                                | 2,613                              | 253                                | 46.0                               | 87.5                               | 7.4                                | 26.2                               | 3.4                                | 6.9                                | 0.8                                | 5.5                                | 0.9                                | 94.0                              | 1.47   | 64.7   | 11    |
|         | 78.0   | 79.0 | 1,525                              | 3,329                | 377                                | 1,277                              | 172                                | 39.3                               | 89.2                               | 9.2                                | 40.7                               | 5.8                                | 14.4                               | 1.8                                | 12.1                               | 1.7                                | 174.0                             | 0.71   | 75.1   | 16.4  |
|         | 79.0   | 80.0 | 1,536                              | 3,132                | 333                                | 1,117                              | 139                                | 33.8                               | 81.6                               | 9.0                                | 40.9                               | 5.9                                | 14.6                               | 1.6                                | 9.6                                | 1.4                                | 177.8                             | 0.66   | 79.6   | 11.2  |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 80.0   | 81.0  | 2,058                              | 4,054                | 407                                | 1,283                              | 129                                | 27.0                               | 58.7                               | 5.5                                | 22.2                               | 3.0                                | 6.8                                | 0.8                                | 4.8                                | 0.8                                | 83.8                              | 0.81   | 41.3   | 7.5   |
|         | 81.0   | 82.0  | 4,797                              | 8,206                | 797                                | 2,286                              | 170                                | 28.4                               | 50.4                               | 3.5                                | 11.5                               | 1.1                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 1.64   | 28     | 8.9   |
|         | 82.0   | 83.0  | 4,046                              | 6,818                | 678                                | 2,030                              | 181                                | 34.3                               | 66.5                               | 5.3                                | 19.7                               | 2.5                                | 5.4                                | 0.6                                | 4.0                                | 0.6                                | 64.8                              | 1.40   | 48.6   | 8.6   |
|         | 83.0   | 84.0  | 1,771                              | 3,427                | 356                                | 1,134                              | 130                                | 28.7                               | 67.3                               | 7.2                                | 35.9                               | 5.2                                | 11.7                               | 1.3                                | 8.1                                | 1.1                                | 156.2                             | 0.71   | 71.6   | 8.4   |
|         | 84.0   | 85.0  | 1,724                              | 3,501                | 362                                | 1,154                              | 144                                | 32.1                               | 73.7                               | 7.8                                | 33.2                               | 4.6                                | 10.5                               | 1.2                                | 7.9                                | 1.1                                | 130.8                             | 0.72   | 67.2   | 6.8   |
|         | 85.0   | 86.0  | 1,437                              | 2,887                | 306                                | 1,007                              | 130                                | 31.5                               | 78.2                               | 8.6                                | 37.5                               | 5.4                                | 13.0                               | 1.5                                | 9.5                                | 1.2                                | 160.0                             | 0.61   | 57.9   | 8     |
|         | 86.0   | 87.0  | 3,249                              | 5,638                | 567                                | 1,709                              | 157                                | 30.6                               | 64.1                               | 6.0                                | 26.3                               | 3.5                                | 8.4                                | 0.9                                | 5.0                                | 0.7                                | 104.1                             | 1.16   | 56.6   | 8.7   |
|         | 87.0   | 88.0  | 2,744                              | 4,717                | 466                                | 1,382                              | 125                                | 24.0                               | 45.4                               | 4.1                                | 14.5                               | 1.9                                | 4.4                                | 0.5                                | 3.9                                | 0.8                                | 53.3                              | 0.96   | 50.7   | 26.5  |
|         | 88.0   | 89.0  | 4,175                              | 7,272                | 732                                | 2,193                              | 176                                | 29.4                               | 51.9                               | 3.8                                | 11.4                               | 1.3                                | 2.3                                | 0.2                                | 1.6                                | 0.2                                | 31.8                              | 1.47   | 42.3   | 14.2  |
|         | 89.0   | 90.0  | 3,753                              | 6,130                | 574                                | 1,627                              | 119                                | 20.6                               | 36.9                               | 2.8                                | 8.7                                | 1.0                                | 1.7                                | 0.2                                | 1.3                                | 0.2                                | 25.4                              | 1.23   | 26     | 12.8  |
|         | 90.0   | 91.0  | 2,885                              | 4,742                | 448                                | 1,266                              | 93                                 | 15.3                               | 28.0                               | 2.1                                | 7.5                                | 0.8                                | 1.5                                | 0.2                                | 0.9                                | 0.2                                | 19.1                              | 0.95   | 40.7   | 53.5  |
|         | 91.0   | 92.0  | 3,741                              | 6,879                | 716                                | 2,170                              | 197                                | 36.7                               | 71.5                               | 6.2                                | 23.8                               | 3.0                                | 6.4                                | 0.6                                | 3.6                                | 0.6                                | 85.1                              | 1.39   | 46.2   | 16.6  |
|         | 92.0   | 93.0  | 2,357                              | 4,815                | 523                                | 1,680                              | 163                                | 31.2                               | 59.8                               | 4.9                                | 19.1                               | 2.5                                | 4.8                                | 0.6                                | 3.8                                | 0.5                                | 69.8                              | 0.97   | 33.4   | 7.4   |
|         | 93.0   | 94.0  | 2,269                              | 4,840                | 534                                | 1,720                              | 166                                | 32.4                               | 67.0                               | 6.0                                | 26.1                               | 3.5                                | 7.9                                | 0.9                                | 5.6                                | 0.8                                | 97.8                              | 0.98   | 33.7   | 7.1   |
|         | 94.0   | 95.0  | 3,108                              | 6,314                | 675                                | 2,123                              | 191                                | 33.7                               | 62.0                               | 5.3                                | 18.8                               | 2.3                                | 4.1                                | 0.5                                | 3.4                                | 0.5                                | 64.8                              | 1.26   | 34.4   | 3.4   |
|         | 95.0   | 96.0  | 2,744                              | 5,798                | 639                                | 2,053                              | 188                                | 33.5                               | 59.9                               | 4.9                                | 19.9                               | 2.4                                | 5.2                                | 0.7                                | 4.1                                | 0.5                                | 72.4                              | 1.16   | 27.5   | 2.7   |
|         | 96.0   | 97.0  | 2,639                              | 5,675                | 634                                | 2,053                              | 197                                | 35.2                               | 64.0                               | 5.2                                | 22.6                               | 3.1                                | 6.9                                | 0.8                                | 5.7                                | 0.8                                | 92.7                              | 1.14   | 26.4   | 3     |
|         | 97.0   | 98.0  | 2,791                              | 5,921                | 660                                | 2,100                              | 192                                | 33.0                               | 62.2                               | 5.1                                | 21.1                               | 2.8                                | 6.5                                | 0.8                                | 5.0                                | 0.7                                | 82.5                              | 1.19   | 29.3   | 2.4   |
|         | 98.0   | 99.0  | 2,791                              | 5,786                | 617                                | 1,925                              | 164                                | 29.3                               | 55.0                               | 4.6                                | 17.0                               | 2.3                                | 4.7                                | 0.5                                | 3.5                                | 0.5                                | 62.2                              | 1.15   | 33.9   | 6.1   |
|         | 99.0   | 100.0 | 1,742                              | 3,685                | 391                                | 1,236                              | 125                                | 24.4                               | 49.5                               | 4.7                                | 19.3                               | 2.8                                | 6.1                                | 0.7                                | 4.1                                | 0.5                                | 73.7                              | 0.74   | 43.2   | 8     |
|         | 100.0  | 101.0 | 1,636                              | 3,685                | 381                                | 1,271                              | 132                                | 29.1                               | 61.7                               | 5.5                                | 24.0                               | 3.5                                | 8.5                                | 0.9                                | 5.8                                | 0.8                                | 99.1                              | 0.73   | 52.9   | 8     |
|         | 101.0  | 102.0 | 3,178                              | 6,277                | 648                                | 2,135                              | 205                                | 40.1                               | 73.5                               | 6.3                                | 22.0                               | 2.8                                | 6.4                                | 0.7                                | 5.2                                | 0.8                                | 80.0                              | 1.27   | 33.7   | 5     |
|         | 102.0  | 103.0 | 2,756                              | 5,933                | 640                                | 2,216                              | 220                                | 42.8                               | 75.8                               | 5.9                                | 22.5                               | 2.8                                | 6.2                                | 0.7                                | 5.0                                | 0.7                                | 86.4                              | 1.20   | 32.8   | 4.9   |
|         | 103.0  | 104.0 | 3,225                              | 6,560                | 692                                | 2,333                              | 212                                | 42.4                               | 73.9                               | 6.1                                | 22.3                               | 2.9                                | 6.2                                | 0.7                                | 4.3                                | 0.6                                | 76.2                              | 1.33   | 32.9   | 5.9   |
|         | 104.0  | 105.0 | 2,920                              | 6,253                | 662                                | 2,187                              | 203                                | 40.9                               | 75.2                               | 6.1                                | 21.8                               | 2.7                                | 5.8                                | 0.7                                | 4.7                                | 0.6                                | 80.0                              | 1.25   | 30.4   | 5.6   |
|         | 105.0  | 106.0 | 2,557                              | 5,589                | 578                                | 1,872                              | 155                                | 29.4                               | 49.9                               | 3.9                                | 14.7                               | 1.9                                | 4.5                                | 0.5                                | 3.1                                | 0.4                                | 54.6                              | 1.09   | 18.8   | 3.4   |
|         | 106.0  | 107.0 | 3,260                              | 7,026                | 744                                | 2,496                              | 225                                | 42.8                               | 79.3                               | 6.5                                | 23.5                               | 3.1                                | 7.1                                | 0.9                                | 5.8                                | 0.9                                | 90.2                              | 1.40   | 36.1   | 7.1   |
|         | 107.0  | 108.0 | 2,604                              | 5,712                | 597                                | 1,989                              | 194                                | 38.7                               | 73.0                               | 5.7                                | 20.8                               | 2.9                                | 6.6                                | 0.7                                | 5.4                                | 0.8                                | 82.5                              | 1.13   | 34.6   | 6.1   |
|         | 108.0  | 109.0 | 2,281                              | 5,393                | 600                                | 2,111                              | 213                                | 41.8                               | 79.1                               | 6.3                                | 23.2                               | 3.1                                | 7.0                                | 0.8                                | 5.9                                | 0.8                                | 83.8                              | 1.09   | 42.4   | 6.8   |
|         | 109.0  | 110.0 | 3,753                              | 7,837                | 836                                | 2,776                              | 255                                | 47.0                               | 86.5                               | 6.5                                | 21.4                               | 2.8                                | 5.8                                | 0.6                                | 4.4                                | 0.6                                | 80.0                              | 1.57   | 35.3   | 8.5   |
|         | 110.0  | 111.0 | 3,272                              | 7,100                | 764                                | 2,543                              | 237                                | 47.0                               | 85.3                               | 6.8                                | 24.2                               | 3.1                                | 6.5                                | 0.7                                | 4.4                                | 0.6                                | 85.1                              | 1.42   | 31.3   | 6.6   |
|         | 111.0  | 112.0 | 3,014                              | 6,547                | 721                                | 2,461                              | 239                                | 47.7                               | 91.2                               | 7.3                                | 26.3                               | 3.2                                | 6.6                                | 0.8                                | 4.4                                | 0.5                                | 92.7                              | 1.33   | 30.3   | 6.2   |
|         | 112.0  | 113.0 | 3,530                              | 7,493                | 774                                | 2,496                              | 196                                | 35.6                               | 61.4                               | 4.4                                | 15.6                               | 1.9                                | 3.7                                | 0.4                                | 2.2                                | 0.3                                | 48.3                              | 1.47   | 27.9   | 6.3   |
|         | 113.0  | 114.0 | 3,999                              | 8,230                | 807                                | 2,391                              | 145                                | 23.3                               | 39.1                               | 2.7                                | 9.3                                | 1.1                                | 1.7                                | 0.2                                | 1.1                                | 0.2                                | 22.9                              | 1.57   | 18.4   | 1     |
|         | 114.0  | 115.0 | 3,038                              | 6,425                | 663                                | 2,070                              | 151                                | 25.2                               | 43.5                               | 3.1                                | 10.8                               | 1.4                                | 2.9                                | 0.4                                | 2.3                                | 0.3                                | 38.1                              | 1.25   | 21.9   | 1.1   |
|         | 115.0  | 116.0 | 3,718                              | 7,739                | 794                                | 2,496                              | 187                                | 32.7                               | 57.8                               | 4.3                                | 14.7                               | 1.8                                | 3.7                                | 0.4                                | 2.9                                | 0.4                                | 49.5                              | 1.51   | 29.4   | 3.3   |
|         | 116.0  | 117.0 | 3,167                              | 7,051                | 755                                | 2,449                              | 195                                | 35.0                               | 59.7                               | 4.5                                | 15.2                               | 1.9                                | 4.0                                | 0.5                                | 3.0                                | 0.5                                | 50.8                              | 1.38   | 32.1   | 2.5   |
|         | 117.0  | 118.0 | 4,410                              | 9,582                | 1,038                              | 3,313                              | 239                                | 40.8                               | 67.9                               | 5.1                                | 16.8                               | 2.0                                | 4.8                                | 0.6                                | 3.8                                | 0.5                                | 58.4                              | 1.88   | 38.5   | 3.5   |
|         | 118.0  | 119.0 | 3,026                              | 6,597                | 679                                | 2,158                              | 162                                | 28.0                               | 49.6                               | 3.8                                | 12.2                               | 1.6                                | 3.3                                | 0.3                                | 2.3                                | 0.3                                | 43.2                              | 1.28   | 22.6   | 2.3   |
|         | 119.0  | 120.0 | 3,976                              | 8,341                | 859                                | 2,683                              | 183                                | 31.7                               | 53.5                               | 4.0                                | 13.3                               | 1.6                                | 3.2                                | 0.3                                | 1.8                                | 0.2                                | 39.4                              | 1.62   | 25.8   | 4.8   |
|         | 120.0  | 121.0 | 3,612                              | 7,714                | 794                                | 2,473                              | 161                                | 26.8                               | 43.3                               | 2.9                                | 10.7                               | 1.3                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 1.49   | 20.5   | 4.9   |
|         | 121.0  | 122.0 | 3,706                              | 7,862                | 800                                | 2,496                              | 161                                | 25.6                               | 40.9                               | 2.7                                | 8.5                                | 0.9                                | 1.7                                | 0.2                                | 1.0                                | 0.1                                | 22.9                              | 1.51   | 26.5   | 3.7   |
|         | 122.0  | 123.0 | 3,272                              | 7,198                | 750                                | 2,356                              | 163                                | 27.8                               | 47.7                               | 3.4                                | 10.0                               | 1.2                                | 2.1                                | 0.2                                | 1.1                                | 0.1                                | 27.9                              | 1.39   | 28.3   | 1     |
|         | 123.0  | 124.0 | 3,213                              | 7,149                | 752                                | 2,403                              | 173                                | 29.4                               | 48.5                               | 3.1                                | 9.9                                | 1.2                                | 2.5                                | 0.2                                | 1.3                                | 0.1                                | 29.2                              | 1.38   | 26     | 1.3   |
|         | 124.0  | 125.0 | 4,093                              | 9,213                | 1,015                              | 3,359                              | 263                                | 42.7                               | 69.0                               | 4.2                                | 12.1                               | 1.4                                | 2.2                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 1.81   | 36.3   | 2     |
|         | 125.0  | 126.0 | 1,976                              | 4,987                | 565                                | 1,960                              | 183                                | 35.6                               | 67.5                               | 6.7                                | 29.4                               | 4.5                                | 9.7                                | 0.9                                | 5.8                                | 0.8                                | 128.3                             | 1.00   | 54.4   | 6.5   |

| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 126.0  | 127.0 | 1,390                              | 3,452                | 394                                | 1,423                              | 152                                | 29.2                               | 51.6                               | 3.7                                | 12.2                               | 1.5                                | 3.3                                | 0.4                                | 2.2                                | 0.3                                | 43.2                              | 0.70   | 42.2   | 6     |
|                 | 127.0  | 128.0 | 1,142                              | 2,776                | 312                                | 1,166                              | 144                                | 31.5                               | 63.1                               | 5.4                                | 22.2                               | 3.1                                | 6.8                                | 0.8                                | 4.6                                | 0.5                                | 87.6                              | 0.58   | 60.1   | 5.1   |
|                 | 128.0  | 129.0 | 1,037                              | 2,641                | 309                                | 1,201                              | 157                                | 34.7                               | 71.7                               | 6.1                                | 25.7                               | 3.8                                | 7.9                                | 0.8                                | 4.8                                | 0.6                                | 100.3                             | 0.56   | 55.2   | 8     |
|                 | 129.0  | 130.0 | 1,583                              | 3,673                | 411                                | 1,557                              | 198                                | 44.1                               | 89.9                               | 7.8                                | 31.0                               | 4.3                                | 9.3                                | 1.0                                | 5.2                                | 0.7                                | 116.8                             | 0.77   | 64     | 8     |
|                 | 130.0  | 131.0 | 1,683                              | 3,882                | 440                                | 1,627                              | 203                                | 44.0                               | 88.8                               | 8.1                                | 31.2                               | 4.0                                | 8.6                                | 0.9                                | 4.9                                | 0.7                                | 120.6                             | 0.81   | 67.9   | 5.8   |
|                 | 131.0  | 132.0 | 983                                | 2,469                | 285                                | 1,065                              | 131                                | 29.0                               | 64.2                               | 7.1                                | 32.9                               | 5.3                                | 12.0                               | 1.4                                | 7.6                                | 0.9                                | 160.0                             | 0.53   | 50.9   | 8.2   |
|                 | 132.0  | 133.0 | 1,063                              | 2,567                | 291                                | 1,087                              | 133                                | 29.1                               | 63.3                               | 6.2                                | 23.9                               | 3.4                                | 7.8                                | 0.9                                | 5.0                                | 0.7                                | 101.6                             | 0.54   | 53.6   | 8.2   |
|                 | 133.0  | 134.0 | 1,789                              | 3,906                | 440                                | 1,580                              | 183                                | 38.3                               | 76.9                               | 7.2                                | 28.4                               | 4.1                                | 8.8                                | 1.0                                | 5.7                                | 0.8                                | 119.4                             | 0.82   | 59.3   | 9.1   |
|                 | 134.0  | 135.0 | 2,522                              | 5,331                | 584                                | 2,035                              | 219                                | 45.0                               | 87.5                               | 7.5                                | 27.4                               | 3.5                                | 7.6                                | 0.8                                | 4.4                                | 0.6                                | 107.9                             | 1.10   | 76.1   | 6.8   |
|                 | 135.0  | 136.0 | 1,994                              | 4,508                | 511                                | 1,855                              | 212                                | 45.2                               | 90.0                               | 8.3                                | 33.2                               | 4.6                                | 11.0                               | 1.2                                | 7.2                                | 0.8                                | 142.2                             | 0.94   | 77.3   | 7.4   |
|                 | 136.0  | 137.0 | 2,568                              | 5,663                | 629                                | 2,245                              | 231                                | 45.5                               | 85.8                               | 7.5                                | 29.3                               | 4.2                                | 9.8                                | 1.1                                | 7.3                                | 1.0                                | 123.2                             | 1.17   | 74.9   | 7.7   |
|                 | 137.0  | 138.0 | 1,718                              | 3,906                | 448                                | 1,674                              | 230                                | 51.6                               | 111.3                              | 11.4                               | 45.6                               | 6.5                                | 14.6                               | 1.6                                | 9.3                                | 1.4                                | 201.9                             | 0.84   | 122    | 9.8   |
|                 | 138.0  | 139.0 | 1,413                              | 3,218                | 358                                | 1,347                              | 185                                | 43.1                               | 90.4                               | 9.3                                | 38.1                               | 5.4                                | 13.0                               | 1.4                                | 8.2                                | 1.1                                | 172.7                             | 0.69   | 94.1   | 7.4   |
|                 | 139.0  | 140.0 | 1,777                              | 3,783                | 424                                | 1,569                              | 203                                | 43.3                               | 86.2                               | 8.0                                | 31.1                               | 4.1                                | 9.7                                | 1.1                                | 6.8                                | 0.9                                | 125.7                             | 0.81   | 92.9   | 5.8   |
|                 | 140.0  | 141.0 | 2,047                              | 4,619                | 527                                | 1,878                              | 190                                | 37.4                               | 67.9                               | 5.8                                | 21.2                               | 2.8                                | 7.1                                | 0.8                                | 5.7                                | 0.9                                | 85.1                              | 0.95   | 62.3   | 4.9   |
|                 | 141.0  | 142.0 | 1,970                              | 4,164                | 466                                | 1,691                              | 201                                | 40.3                               | 75.4                               | 6.0                                | 21.1                               | 2.7                                | 6.1                                | 0.8                                | 5.4                                | 0.8                                | 81.3                              | 0.87   | 87.1   | 6     |
|                 | 142.0  | 143.0 | 2,146                              | 4,987                | 574                                | 2,076                              | 223                                | 44.8                               | 82.8                               | 7.0                                | 25.6                               | 3.5                                | 8.1                                | 1.0                                | 7.4                                | 1.2                                | 106.7                             | 1.03   | 77.5   | 6.4   |
|                 | 143.0  | 144.0 | 2,721                              | 5,970                | 666                                | 2,391                              | 271                                | 54.8                               | 107.5                              | 9.2                                | 34.1                               | 4.4                                | 9.7                                | 1.1                                | 6.3                                | 1.0                                | 133.3                             | 1.24   | 107.5  | 7.8   |
|                 | 144.0  | 145.0 | 2,041                              | 4,668                | 532                                | 1,948                              | 229                                | 46.8                               | 89.8                               | 7.2                                | 26.3                               | 3.5                                | 7.6                                | 0.9                                | 5.0                                | 0.7                                | 105.4                             | 0.97   | 89.1   | 6.7   |
|                 | 145.0  | 146.0 | 2,187                              | 5,061                | 593                                | 2,187                              | 267                                | 58.1                               | 117.6                              | 11.2                               | 44.1                               | 6.1                                | 13.7                               | 1.5                                | 7.4                                | 1.0                                | 174.0                             | 1.07   | 112    | 9.2   |
|                 | 146.0  | 147.0 | 2,428                              | 5,380                | 614                                | 2,239                              | 270                                | 57.9                               | 117.0                              | 10.5                               | 42.4                               | 5.7                                | 11.9                               | 1.3                                | 7.5                                | 1.1                                | 166.4                             | 1.14   | 124.5  | 8.6   |
|                 | 147.0  | 148.0 | 1,654                              | 3,587                | 401                                | 1,476                              | 197                                | 47.6                               | 104.0                              | 11.4                               | 48.0                               | 6.6                                | 15.1                               | 1.6                                | 10.6                               | 1.4                                | 205.7                             | 0.78   | 92     | 11.4  |
|                 | 148.0  | 149.0 | 1,906                              | 3,931                | 433                                | 1,534                              | 190                                | 41.0                               | 84.1                               | 8.1                                | 30.9                               | 4.2                                | 9.8                                | 1.1                                | 7.5                                | 1.2                                | 127.0                             | 0.83   | 79.3   | 11.3  |
|                 | 149.0  | 150.0 | 1,859                              | 4,005                | 441                                | 1,580                              | 183                                | 40.3                               | 79.1                               | 7.4                                | 29.3                               | 4.2                                | 9.8                                | 1.2                                | 7.2                                | 1.1                                | 129.5                             | 0.84   | 74.1   | 6.4   |
|                 | 150.0  | 151.0 | 1,794                              | 3,919                | 437                                | 1,598                              | 190                                | 40.5                               | 78.2                               | 6.7                                | 25.1                               | 3.3                                | 7.3                                | 0.8                                | 4.8                                | 0.7                                | 97.8                              | 0.82   | 89.9   | 4.1   |
|                 | 151.0  | 152.0 | 1,618                              | 3,440                | 376                                | 1,376                              | 174                                | 39.6                               | 84.6                               | 8.8                                | 38.7                               | 5.7                                | 14.0                               | 1.5                                | 8.2                                | 1.1                                | 184.1                             | 0.74   | 79.5   | 7     |
|                 | 152.0  | 153.0 | 1,824                              | 3,894                | 440                                | 1,615                              | 205                                | 44.4                               | 87.7                               | 7.9                                | 29.3                               | 4.0                                | 9.5                                | 0.9                                | 5.6                                | 0.8                                | 119.4                             | 0.83   | 89.7   | 7.2   |
|                 | 153.0  | 154.0 | 2,557                              | 5,356                | 590                                | 2,088                              | 230                                | 45.6                               | 88.5                               | 6.7                                | 22.6                               | 2.7                                | 6.1                                | 0.6                                | 4.4                                | 0.6                                | 80.0                              | 1.11   | 84.3   | 5.4   |
|                 | 154.0  | 155.0 | 5,747                              | 10,896               | 1,087                              | 3,359                              | 261                                | 46.8                               | 82.4                               | 6.4                                | 19.7                               | 1.8                                | 3.1                                | 0.3                                | 1.6                                | 0.3                                | 47.0                              | 2.16   | 63.3   | 2.7   |
|                 | 155.0  | 156.0 | 4,937                              | 10,048               | 1,023                              | 3,208                              | 235                                | 39.5                               | 65.7                               | 4.9                                | 15.0                               | 1.5                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 35.6                              | 1.96   | 45.7   | 0.8   |
|                 | 156.0  | 157.0 | 2,557                              | 5,319                | 553                                | 1,779                              | 139                                | 24.3                               | 43.2                               | 3.6                                | 11.5                               | 1.2                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 30.5                              | 1.05   | 33     | 0.8   |
|                 | 157.0  | 158.0 | 4,152                              | 9,066                | 967                                | 3,103                              | 235                                | 40.8                               | 70.5                               | 5.8                                | 19.1                               | 2.2                                | 4.1                                | 0.5                                | 4.0                                | 0.7                                | 58.4                              | 1.77   | 52.5   | 2.5   |
|                 | 158.0  | 159.0 | 3,084                              | 6,732                | 721                                | 2,333                              | 178                                | 31.5                               | 54.5                               | 4.1                                | 12.9                               | 1.3                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 31.8                              | 1.32   | 41.7   | 1     |
|                 | 159.0  | 160.0 | 3,319                              | 7,149                | 762                                | 2,461                              | 183                                | 32.5                               | 53.7                               | 4.0                                | 11.5                               | 1.2                                | 2.1                                | 0.2                                | 0.8                                | 0.2                                | 27.9                              | 1.40   | 38.4   | 0.7   |
|                 | 160.0  | 161.0 | 1,548                              | 3,526                | 375                                | 1,289                              | 97                                 | 17.5                               | 32.3                               | 2.4                                | 8.2                                | 0.9                                | 1.6                                | 0.1                                | 0.8                                | 0.2                                | 21.6                              | 0.69   | 24.6   | 0.4   |
|                 | 161.0  | 162.0 | 5,629                              | 11,154               | 1,107                              | 3,616                              | 283                                | 48.2                               | 84.1                               | 5.9                                | 16.2                               | 1.5                                | 3.0                                | 0.2                                | 1.8                                | 0.3                                | 39.4                              | 2.20   | 68.7   | 2.3   |
|                 | 162.0  | 163.0 | 4,328                              | 8,746                | 892                                | 3,056                              | 266                                | 44.1                               | 74.0                               | 5.1                                | 14.4                               | 1.5                                | 2.2                                | 0.2                                | 1.6                                | 0.3                                | 33.0                              | 1.75   | 48.8   | 4.6   |
|                 | 163.0  | 164.0 | 5,454                              | 10,798               | 1,099                              | 3,663                              | 286                                | 47.9                               | 83.0                               | 6.0                                | 17.1                               | 1.7                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 34.3                              | 2.15   | 66.1   | 4.4   |
|                 | 164.0  | 165.0 | 4,257                              | 8,906                | 903                                | 3,079                              | 239                                | 39.8                               | 64.2                               | 4.6                                | 12.7                               | 1.2                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 1.75   | 46.8   | 5.6   |
|                 | 165.0  | 166.0 | 3,436                              | 7,493                | 750                                | 2,578                              | 212                                | 36.5                               | 63.3                               | 4.8                                | 13.1                               | 1.5                                | 2.7                                | 0.3                                | 1.6                                | 0.4                                | 36.8                              | 1.46   | 51.6   | 5.4   |
|                 | 166.0  | 167.0 | 5,993                              | 10,970               | 1,055                              | 3,441                              | 282                                | 47.1                               | 79.3                               | 5.3                                | 14.5                               | 1.4                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 33.0                              | 2.19   | 53.3   | 5.1   |
|                 | 167.0  | 168.0 | 3,460                              | 6,904                | 704                                | 2,292                              | 189                                | 32.2                               | 55.3                               | 3.9                                | 11.1                               | 1.2                                | 1.7                                | 0.2                                | 0.9                                | 0.2                                | 26.7                              | 1.37   | 37     | 9.4   |
| <b>KGKRC032</b> | 0.0    | 1.0   | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    |
|                 | 1.0    | 2.0   | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    |
|                 | 2.0    | 3.0   | 3,225                              | 5,417                | 493                                | 1,429                              | 101                                | 18.1                               | 35.2                               | 3.4                                | 11.7                               | 1.5                                | 2.7                                | 0.3                                | 1.7                                | 0.2                                | 40.6                              | 1.08   | 22.9   | 8.1   |
|                 | 3.0    | 4.0   | 3,565                              | 5,823                | 516                                | 1,452                              | 98                                 | 17.4                               | 30.5                               | 2.4                                | 8.4                                | 1.0                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 26.7                              | 1.15   | 22.2   | 9.7   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 4.0    | 5.0  | 7,224                              | 11,289               | 948                                | 2,589                              | 144                                | 23.3                               | 41.0                               | 3.2                                | 9.9                                | 1.3                                | 1.9                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 2.23   | 26.5   | 9.5   |
|         | 5.0    | 6.0  | 5,020                              | 8,120                | 712                                | 1,977                              | 125                                | 20.8                               | 36.8                               | 2.5                                | 8.2                                | 1.0                                | 1.8                                | 0.2                                | 1.3                                | 0.1                                | 24.1                              | 1.60   | 30.7   | 16.4  |
|         | 6.0    | 7.0  | 3,683                              | 6,056                | 534                                | 1,499                              | 93                                 | 15.5                               | 28.5                               | 2.3                                | 7.9                                | 1.0                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 26.7                              | 1.19   | 22     | 9.6   |
|         | 7.0    | 8.0  | 4,023                              | 6,744                | 591                                | 1,668                              | 114                                | 21.3                               | 40.7                               | 3.4                                | 11.5                               | 1.4                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 34.3                              | 1.33   | 30.3   | 6.1   |
|         | 8.0    | 9.0  | 2,105                              | 3,624                | 326                                | 952                                | 72                                 | 13.2                               | 24.3                               | 2.2                                | 8.6                                | 1.2                                | 2.5                                | 0.3                                | 1.7                                | 0.2                                | 31.8                              | 0.72   | 24.6   | 14.8  |
|         | 9.0    | 10.0 | 2,199                              | 3,464                | 296                                | 826                                | 57                                 | 10.3                               | 19.6                               | 1.8                                | 7.5                                | 1.0                                | 2.5                                | 0.3                                | 1.6                                | 0.2                                | 29.2                              | 0.69   | 25.7   | 12.2  |
|         | 10.0   | 11.0 | 6,075                              | 9,925                | 860                                | 2,426                              | 146                                | 24.6                               | 42.1                               | 3.1                                | 10.0                               | 1.2                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 26.7                              | 1.95   | 32.4   | 8.4   |
|         | 11.0   | 12.0 | 7,142                              | 11,424               | 988                                | 2,694                              | 162                                | 26.1                               | 47.4                               | 3.4                                | 10.9                               | 1.4                                | 2.7                                | 0.3                                | 1.8                                | 0.2                                | 36.8                              | 2.25   | 22.6   | 7     |
|         | 12.0   | 13.0 | 4,421                              | 7,776                | 714                                | 2,041                              | 128                                | 20.8                               | 38.0                               | 2.9                                | 10.3                               | 1.6                                | 3.2                                | 0.4                                | 2.6                                | 0.3                                | 43.2                              | 1.52   | 16.9   | 8     |
|         | 13.0   | 14.0 | 5,231                              | 9,385                | 888                                | 2,601                              | 159                                | 24.7                               | 43.9                               | 3.1                                | 9.8                                | 1.1                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 1.84   | 20.4   | 10.4  |
|         | 14.0   | 15.0 | 4,081                              | 7,088                | 650                                | 1,884                              | 122                                | 21.4                               | 37.1                               | 2.8                                | 8.4                                | 1.0                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 24.1                              | 1.39   | 20.7   | 9.8   |
|         | 15.0   | 16.0 | 3,331                              | 6,191                | 590                                | 1,738                              | 114                                | 18.2                               | 31.9                               | 2.2                                | 6.2                                | 0.8                                | 1.6                                | 0.2                                | 0.8                                | 0.2                                | 19.1                              | 1.20   | 13.6   | 10.7  |
|         | 16.0   | 17.0 | 3,694                              | 7,088                | 686                                | 2,094                              | 138                                | 22.0                               | 37.1                               | 2.7                                | 8.4                                | 1.0                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 21.6                              | 1.38   | 17.2   | 8.2   |
|         | 17.0   | 18.0 | 4,034                              | 7,186                | 671                                | 1,995                              | 135                                | 22.5                               | 39.3                               | 2.9                                | 9.3                                | 1.1                                | 1.7                                | 0.2                                | 1.0                                | 0.1                                | 22.9                              | 1.41   | 16.4   | 8.8   |
|         | 18.0   | 19.0 | 2,944                              | 6,068                | 633                                | 2,053                              | 151                                | 24.9                               | 40.6                               | 2.7                                | 7.2                                | 0.8                                | 1.4                                | 0.2                                | 0.8                                | 0.1                                | 19.1                              | 1.19   | 20.2   | 9.6   |
|         | 19.0   | 20.0 | 3,049                              | 6,031                | 597                                | 1,860                              | 124                                | 18.8                               | 30.3                               | 1.9                                | 5.4                                | 0.7                                | 1.4                                | 0.2                                | 0.8                                | 0.1                                | 15.2                              | 1.17   | 10.8   | 9.4   |
|         | 20.0   | 21.0 | 2,522                              | 4,692                | 457                                | 1,376                              | 92                                 | 14.6                               | 25.9                               | 1.8                                | 5.3                                | 0.7                                | 1.4                                | 0.2                                | 1.0                                | 0.1                                | 16.5                              | 0.92   | 7.9    | 5.1   |
|         | 21.0   | 22.0 | 4,961                              | 8,820                | 822                                | 2,414                              | 162                                | 26.5                               | 47.6                               | 3.4                                | 10.3                               | 1.3                                | 2.4                                | 0.2                                | 1.0                                | 0.2                                | 31.8                              | 1.73   | 19.2   | 6.1   |
|         | 22.0   | 23.0 | 9,394                              | 16,276               | 1,516                              | 4,199                              | 299                                | 52.5                               | 98.4                               | 7.8                                | 24.3                               | 2.7                                | 3.8                                | 0.3                                | 1.5                                | 0.2                                | 61.0                              | 3.19   | 65.4   | 4.7   |
|         | 23.0   | 24.0 | 7,553                              | 13,512               | 1,341                              | 3,721                              | 239                                | 40.3                               | 69.3                               | 5.0                                | 14.7                               | 1.7                                | 2.7                                | 0.2                                | 1.5                                | 0.1                                | 36.8                              | 2.65   | 28.7   | 6.8   |
|         | 24.0   | 25.0 | 3,507                              | 6,719                | 654                                | 1,977                              | 130                                | 20.2                               | 34.9                               | 2.4                                | 7.9                                | 0.9                                | 1.4                                | 0.2                                | 0.9                                | 0.2                                | 21.6                              | 1.31   | 13.8   | 7.4   |
|         | 25.0   | 26.0 | 3,718                              | 7,493                | 716                                | 2,146                              | 144                                | 23.3                               | 40.8                               | 3.3                                | 10.2                               | 1.2                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 27.9                              | 1.43   | 24.5   | 7.4   |
|         | 26.0   | 27.0 | 4,550                              | 8,808                | 832                                | 2,461                              | 160                                | 24.8                               | 41.2                               | 2.9                                | 7.8                                | 1.0                                | 1.5                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.69   | 16.6   | 8.1   |
|         | 27.0   | 28.0 | 2,826                              | 5,233                | 492                                | 1,446                              | 99                                 | 16.4                               | 30.5                               | 2.3                                | 8.4                                | 1.2                                | 2.3                                | 0.2                                | 1.3                                | 0.2                                | 26.7                              | 1.02   | 16.6   | 14.8  |
|         | 28.0   | 29.0 | 3,507                              | 6,842                | 636                                | 1,872                              | 127                                | 20.2                               | 35.2                               | 2.6                                | 8.5                                | 1.0                                | 1.8                                | 0.2                                | 1.1                                | 0.1                                | 22.9                              | 1.31   | 16.1   | 12.1  |
|         | 29.0   | 30.0 | 4,070                              | 8,107                | 768                                | 2,292                              | 148                                | 24.4                               | 41.4                               | 3.3                                | 9.6                                | 1.1                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 25.4                              | 1.55   | 19.8   | 8.4   |
|         | 30.0   | 31.0 | 8,620                              | 14,679               | 1,287                              | 3,639                              | 239                                | 38.4                               | 69.4                               | 4.9                                | 16.1                               | 1.7                                | 2.5                                | 0.2                                | 1.4                                | 0.2                                | 40.6                              | 2.86   | 37.5   | 7.1   |
|         | 31.0   | 32.0 | 6,063                              | 10,920               | 974                                | 2,834                              | 209                                | 36.6                               | 72.6                               | 6.2                                | 22.0                               | 2.5                                | 4.1                                | 0.4                                | 1.9                                | 0.3                                | 59.7                              | 2.12   | 51.4   | 4.9   |
|         | 32.0   | 33.0 | 6,368                              | 11,608               | 1,046                              | 3,021                              | 212                                | 36.2                               | 69.3                               | 5.7                                | 18.6                               | 2.1                                | 3.2                                | 0.3                                | 1.5                                | 0.2                                | 44.5                              | 2.24   | 44.3   | 5.3   |
|         | 33.0   | 34.0 | 4,797                              | 9,508                | 906                                | 2,741                              | 187                                | 29.4                               | 50.4                               | 3.7                                | 10.9                               | 1.2                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 27.9                              | 1.83   | 27.6   | 8     |
|         | 34.0   | 35.0 | 3,905                              | 7,997                | 784                                | 2,449                              | 186                                | 30.9                               | 53.4                               | 3.6                                | 10.4                               | 1.1                                | 1.8                                | 0.2                                | 1.0                                | 0.2                                | 25.4                              | 1.54   | 27.4   | 6.6   |
|         | 35.0   | 36.0 | 3,706                              | 7,137                | 669                                | 1,977                              | 135                                | 21.5                               | 37.2                               | 2.6                                | 8.0                                | 0.9                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 1.37   | 17     | 7.5   |
|         | 36.0   | 37.0 | 2,756                              | 5,184                | 497                                | 1,458                              | 93                                 | 14.9                               | 26.3                               | 1.9                                | 5.4                                | 0.6                                | 1.3                                | 0.1                                | 0.8                                | 0.1                                | 15.2                              | 1.01   | 10.8   | 8.9   |
|         | 37.0   | 38.0 | 7,084                              | 12,653               | 1,124                              | 3,243                              | 237                                | 41.6                               | 79.9                               | 6.6                                | 22.3                               | 2.1                                | 3.9                                | 0.3                                | 1.5                                | 0.2                                | 53.3                              | 2.46   | 50.7   | 5.9   |
|         | 38.0   | 39.0 | 4,668                              | 8,746                | 791                                | 2,286                              | 158                                | 27.9                               | 51.4                               | 4.1                                | 13.9                               | 1.5                                | 2.5                                | 0.2                                | 1.3                                | 0.1                                | 34.3                              | 1.68   | 26     | 5.7   |
|         | 39.0   | 40.0 | 2,568                              | 5,208                | 528                                | 1,615                              | 111                                | 17.1                               | 30.2                               | 2.1                                | 6.8                                | 0.8                                | 1.5                                | 0.1                                | 0.8                                | 0.1                                | 17.8                              | 1.01   | 14     | 9.1   |
|         | 40.0   | 41.0 | 2,486                              | 5,061                | 516                                | 1,592                              | 113                                | 18.0                               | 32.4                               | 2.2                                | 6.9                                | 0.7                                | 1.5                                | 0.1                                | 0.9                                | 0.2                                | 17.8                              | 0.98   | 16.6   | 9     |
|         | 41.0   | 42.0 | 2,199                              | 4,557                | 474                                | 1,493                              | 111                                | 17.5                               | 30.7                               | 2.1                                | 6.4                                | 0.8                                | 1.4                                | 0.2                                | 0.9                                | 0.1                                | 17.8                              | 0.89   | 16.2   | 9.5   |
|         | 42.0   | 43.0 | 2,909                              | 6,351                | 637                                | 1,960                              | 140                                | 21.7                               | 37.6                               | 2.4                                | 6.3                                | 0.7                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 15.2                              | 1.21   | 14.7   | 7.9   |
|         | 43.0   | 44.0 | 3,952                              | 8,832                | 911                                | 2,939                              | 228                                | 36.4                               | 60.5                               | 3.8                                | 10.0                               | 1.0                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 1.70   | 30.6   | 6.5   |
|         | 44.0   | 45.0 | 3,823                              | 8,685                | 924                                | 3,021                              | 239                                | 37.8                               | 63.3                               | 4.1                                | 11.7                               | 1.2                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 1.68   | 33.8   | 4.9   |
|         | 45.0   | 46.0 | 4,715                              | 10,257               | 1,041                              | 3,278                              | 242                                | 40.1                               | 67.9                               | 4.6                                | 13.2                               | 1.5                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 31.8                              | 1.97   | 38.5   | 6.7   |
|         | 46.0   | 47.0 | 3,249                              | 7,518                | 793                                | 2,589                              | 206                                | 32.7                               | 55.0                               | 3.4                                | 9.4                                | 1.0                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 1.45   | 24.3   | 6.3   |
|         | 47.0   | 48.0 | 3,765                              | 8,390                | 863                                | 2,764                              | 215                                | 34.0                               | 58.0                               | 3.6                                | 10.6                               | 1.1                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 1.61   | 29.8   | 5.3   |
|         | 48.0   | 49.0 | 2,756                              | 6,302                | 656                                | 2,105                              | 161                                | 25.2                               | 41.0                               | 2.4                                | 7.4                                | 0.8                                | 1.4                                | 0.2                                | 0.9                                | 0.1                                | 17.8                              | 1.21   | 19.4   | 8.1   |
|         | 49.0   | 50.0 | 4,762                              | 10,097               | 1,008                              | 3,184                              | 233                                | 38.8                               | 64.1                               | 4.3                                | 12.2                               | 1.2                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 26.7                              | 1.94   | 34.7   | 4.1   |



| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 50.0   | 51.0 | 4,644                              | 10,245               | 1,055                              | 3,383                              | 252                                | 38.9                               | 63.7                               | 4.0                                | 10.9                               | 1.1                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 1.97   | 29.9   | 6     |
|         | 51.0   | 52.0 | 4,462                              | 12,714               | 1,208                              | 3,639                              | 260                                | 44.9                               | 82.2                               | 6.7                                | 22.2                               | 2.5                                | 4.2                                | 0.4                                | 2.5                                | 0.3                                | 59.7                              | 2.45   | 57.5   | 4.5   |
|         | 52.0   | 53.0 | 15,716                             | 27,148               | 2,404                              | 6,928                              | 492                                | 83.6                               | 155.6                              | 11.7                               | 39.6                               | 4.5                                | 8.4                                | 0.9                                | 5.4                                | 0.6                                | 132.1                             | 5.31   | 95.8   | 4.3   |
|         | 53.0   | 54.0 | 8,362                              | 14,986               | 1,359                              | 4,036                              | 293                                | 50.4                               | 93.7                               | 7.4                                | 24.7                               | 2.8                                | 5.7                                | 0.6                                | 3.2                                | 0.4                                | 82.5                              | 2.93   | 57.6   | 6.1   |
|         | 54.0   | 55.0 | 2,674                              | 5,528                | 571                                | 1,825                              | 166                                | 31.7                               | 66.6                               | 6.7                                | 28.9                               | 4.7                                | 11.8                               | 1.4                                | 8.1                                | 1.2                                | 141.0                             | 1.11   | 35     | 10.1  |
|         | 55.0   | 56.0 | 13,018                             | 25,305               | 2,441                              | 7,278                              | 533                                | 96.7                               | 171.2                              | 13.8                               | 46.0                               | 5.1                                | 8.9                                | 1.0                                | 4.9                                | 0.7                                | 139.7                             | 4.91   | 123    | 5.2   |
|         | 56.0   | 57.0 | 12,256                             | 24,015               | 2,374                              | 7,092                              | 480                                | 84.0                               | 145.8                              | 11.8                               | 40.1                               | 5.1                                | 9.4                                | 0.9                                | 4.8                                | 0.7                                | 129.5                             | 4.66   | 75.7   | 3.9   |
|         | 57.0   | 58.0 | 12,784                             | 24,138               | 2,356                              | 7,080                              | 514                                | 94.6                               | 171.7                              | 13.4                               | 43.2                               | 5.0                                | 9.0                                | 0.8                                | 4.8                                | 0.7                                | 130.8                             | 4.73   | 103    | 5.3   |
|         | 58.0   | 59.0 | 7,647                              | 16,153               | 1,673                              | 5,260                              | 397                                | 69.1                               | 119.3                              | 7.9                                | 23.8                               | 2.8                                | 4.9                                | 0.5                                | 3.2                                | 0.4                                | 67.3                              | 3.14   | 66.1   | 4.5   |
|         | 59.0   | 60.0 | 7,799                              | 15,662               | 1,571                              | 4,864                              | 356                                | 63.9                               | 110.8                              | 8.0                                | 26.2                               | 3.2                                | 6.3                                | 0.7                                | 3.6                                | 0.6                                | 88.9                              | 3.06   | 71.6   | 4.1   |
|         | 60.0   | 61.0 | 8,737                              | 16,706               | 1,619                              | 4,794                              | 336                                | 60.9                               | 110.7                              | 8.4                                | 29.4                               | 3.6                                | 7.4                                | 0.8                                | 4.0                                | 0.5                                | 106.7                             | 3.25   | 81.4   | 5.4   |
|         | 61.0   | 62.0 | 3,988                              | 8,464                | 884                                | 2,811                              | 227                                | 41.8                               | 78.0                               | 6.5                                | 20.7                               | 2.5                                | 5.5                                | 0.7                                | 5.0                                | 0.8                                | 73.7                              | 1.66   | 59.7   | 7.6   |
|         | 62.0   | 63.0 | 4,691                              | 10,822               | 1,179                              | 3,837                              | 314                                | 58.5                               | 99.8                               | 7.1                                | 22.3                               | 2.5                                | 5.6                                | 0.6                                | 3.1                                | 0.4                                | 73.7                              | 2.11   | 95.7   | 5.9   |
|         | 63.0   | 64.0 | 4,363                              | 9,471                | 996                                | 3,173                              | 249                                | 43.8                               | 72.7                               | 5.2                                | 14.8                               | 1.6                                | 2.9                                | 0.2                                | 1.7                                | 0.2                                | 36.8                              | 1.84   | 44.4   | 6.5   |
|         | 64.0   | 65.0 | 2,991                              | 6,609                | 708                                | 2,280                              | 183                                | 30.3                               | 52.4                               | 3.4                                | 9.9                                | 1.1                                | 1.6                                | 0.2                                | 1.0                                | 0.1                                | 21.6                              | 1.29   | 27.6   | 5.4   |
|         | 65.0   | 66.0 | 3,636                              | 7,849                | 819                                | 2,648                              | 212                                | 39.5                               | 70.7                               | 4.9                                | 14.6                               | 1.8                                | 3.2                                | 0.4                                | 2.1                                | 0.4                                | 40.6                              | 1.53   | 40.4   | 6.2   |
|         | 66.0   | 67.0 | 2,721                              | 6,117                | 669                                | 2,216                              | 180                                | 32.2                               | 53.4                               | 3.6                                | 10.7                               | 1.0                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 24.1                              | 1.20   | 29.7   | 9.3   |
|         | 67.0   | 68.0 | 3,178                              | 7,026                | 760                                | 2,484                              | 208                                | 37.8                               | 63.6                               | 4.1                                | 11.0                               | 1.3                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 1.38   | 34.4   | 5.9   |
|         | 68.0   | 69.0 | 2,873                              | 6,363                | 683                                | 2,199                              | 176                                | 30.3                               | 49.5                               | 3.6                                | 10.0                               | 1.2                                | 1.9                                | 0.2                                | 1.1                                | 0.2                                | 22.9                              | 1.24   | 32.4   | 7.2   |
|         | 69.0   | 70.0 | 4,421                              | 9,704                | 1,021                              | 3,219                              | 238                                | 40.3                               | 66.2                               | 4.3                                | 11.6                               | 1.3                                | 2.4                                | 0.2                                | 1.7                                | 0.2                                | 31.8                              | 1.88   | 35.5   | 4.4   |
|         | 70.0   | 71.0 | 4,668                              | 9,397                | 944                                | 2,893                              | 220                                | 40.3                               | 70.1                               | 5.3                                | 15.6                               | 1.8                                | 3.3                                | 0.3                                | 2.1                                | 0.3                                | 45.7                              | 1.83   | 44.1   | 6.2   |
|         | 71.0   | 72.0 | 2,920                              | 6,216                | 650                                | 2,070                              | 156                                | 27.7                               | 47.5                               | 3.2                                | 9.4                                | 1.0                                | 1.8                                | 0.2                                | 1.3                                | 0.2                                | 24.1                              | 1.21   | 23.4   | 8.4   |
|         | 72.0   | 73.0 | 4,339                              | 8,844                | 890                                | 2,788                              | 229                                | 43.3                               | 79.4                               | 6.2                                | 21.1                               | 2.7                                | 6.0                                | 0.7                                | 3.5                                | 0.5                                | 74.9                              | 1.73   | 50.6   | 6.6   |
|         | 73.0   | 74.0 | 2,281                              | 4,828                | 511                                | 1,627                              | 143                                | 28.1                               | 53.9                               | 4.7                                | 17.2                               | 2.5                                | 5.4                                | 0.7                                | 3.3                                | 0.5                                | 59.7                              | 0.96   | 33.1   | 7.3   |
|         | 74.0   | 75.0 | 2,176                              | 4,607                | 489                                | 1,598                              | 141                                | 28.5                               | 53.0                               | 4.2                                | 14.7                               | 2.1                                | 4.2                                | 0.4                                | 2.6                                | 0.4                                | 52.1                              | 0.92   | 40.1   | 5     |
|         | 75.0   | 76.0 | 2,070                              | 4,545                | 498                                | 1,639                              | 148                                | 30.7                               | 60.9                               | 4.9                                | 19.3                               | 2.6                                | 5.8                                | 0.6                                | 3.4                                | 0.5                                | 67.3                              | 0.91   | 36.8   | 9.3   |
|         | 76.0   | 77.0 | 1,169                              | 2,666                | 303                                | 1,050                              | 109                                | 23.6                               | 50.6                               | 4.9                                | 19.3                               | 2.9                                | 6.6                                | 0.7                                | 3.8                                | 0.5                                | 76.2                              | 0.55   | 29.6   | 8.8   |
|         | 77.0   | 78.0 | 1,302                              | 2,948                | 333                                | 1,156                              | 119                                | 26.1                               | 53.4                               | 5.2                                | 20.7                               | 3.1                                | 6.6                                | 0.7                                | 4.0                                | 0.6                                | 78.7                              | 0.61   | 35.1   | 8.7   |
|         | 78.0   | 79.0 | 1,747                              | 3,759                | 411                                | 1,400                              | 144                                | 30.7                               | 62.8                               | 5.9                                | 22.7                               | 3.2                                | 6.4                                | 0.7                                | 4.3                                | 0.5                                | 81.3                              | 0.77   | 37.5   | 8.6   |
|         | 79.0   | 80.0 | 1,226                              | 2,764                | 309                                | 1,072                              | 108                                | 23.7                               | 48.5                               | 4.5                                | 18.9                               | 2.8                                | 5.7                                | 0.6                                | 3.2                                | 0.4                                | 68.6                              | 0.57   | 27.5   | 8.5   |
|         | 80.0   | 81.0 | 1,127                              | 2,506                | 282                                | 962                                | 101                                | 23.6                               | 50.7                               | 5.0                                | 21.8                               | 3.1                                | 6.8                                | 0.7                                | 4.2                                | 0.4                                | 77.5                              | 0.52   | 25.7   | 10.4  |
|         | 81.0   | 82.0 | 1,618                              | 3,636                | 407                                | 1,376                              | 130                                | 27.4                               | 53.5                               | 4.9                                | 18.5                               | 2.6                                | 5.8                                | 0.6                                | 3.1                                | 0.5                                | 67.3                              | 0.74   | 33.2   | 6.7   |
|         | 82.0   | 83.0 | 1,624                              | 3,808                | 433                                | 1,458                              | 122                                | 22.2                               | 38.2                               | 2.6                                | 7.8                                | 1.0                                | 1.9                                | 0.2                                | 1.4                                | 0.2                                | 22.9                              | 0.75   | 30.2   | 18.5  |
|         | 83.0   | 84.0 | 1,366                              | 3,108                | 358                                | 1,231                              | 125                                | 27.7                               | 58.3                               | 5.5                                | 23.1                               | 3.4                                | 7.6                                | 0.8                                | 4.4                                | 0.6                                | 87.6                              | 0.64   | 32.9   | 9.4   |
|         | 84.0   | 85.0 | 975                                | 2,168                | 244                                | 855                                | 92                                 | 20.4                               | 44.6                               | 4.4                                | 19.4                               | 2.9                                | 6.5                                | 0.6                                | 3.4                                | 0.6                                | 78.7                              | 0.45   | 26.5   | 8.7   |
|         | 85.0   | 86.0 | 963                                | 2,174                | 248                                | 871                                | 95                                 | 21.7                               | 44.7                               | 4.5                                | 18.9                               | 2.9                                | 6.3                                | 0.7                                | 4.0                                | 0.4                                | 78.7                              | 0.45   | 36     | 8     |
|         | 86.0   | 87.0 | 1,101                              | 2,580                | 300                                | 1,040                              | 116                                | 24.0                               | 50.8                               | 5.1                                | 20.4                               | 3.0                                | 7.0                                | 0.7                                | 4.1                                | 0.5                                | 86.4                              | 0.53   | 41.8   | 4.9   |
|         | 87.0   | 88.0 | 1,513                              | 3,538                | 401                                | 1,382                              | 135                                | 25.9                               | 50.3                               | 4.1                                | 15.5                               | 2.2                                | 4.8                                | 0.5                                | 2.9                                | 0.4                                | 58.4                              | 0.71   | 42.2   | 3.8   |
|         | 88.0   | 89.0 | 1,010                              | 2,316                | 266                                | 924                                | 100                                | 22.0                               | 47.3                               | 4.7                                | 19.7                               | 2.9                                | 6.4                                | 0.7                                | 3.6                                | 0.5                                | 80.0                              | 0.48   | 39.1   | 6.7   |
|         | 89.0   | 90.0 | 1,531                              | 3,378                | 370                                | 1,271                              | 128                                | 25.8                               | 54.4                               | 5.1                                | 21.8                               | 2.9                                | 6.5                                | 0.8                                | 4.3                                | 0.4                                | 82.5                              | 0.69   | 36.7   | 6.9   |
|         | 90.0   | 91.0 | 2,076                              | 4,496                | 494                                | 1,645                              | 155                                | 29.4                               | 60.5                               | 5.1                                | 20.7                               | 3.1                                | 6.5                                | 0.6                                | 4.0                                | 0.5                                | 82.5                              | 0.91   | 40.1   | 5.2   |
|         | 91.0   | 92.0 | 1,865                              | 4,115                | 454                                | 1,557                              | 156                                | 30.8                               | 61.6                               | 5.3                                | 21.7                               | 3.0                                | 6.5                                | 0.8                                | 4.4                                | 0.4                                | 85.1                              | 0.84   | 47.5   | 4.3   |
|         | 92.0   | 93.0 | 5,653                              | 12,898               | 1,420                              | 4,712                              | 401                                | 65.8                               | 111.5                              | 7.0                                | 20.8                               | 2.3                                | 3.8                                | 0.4                                | 2.4                                | 0.3                                | 50.8                              | 2.53   | 68.1   | 5.1   |
|         | 93.0   | 94.0 | 3,612                              | 8,255                | 915                                | 3,138                              | 296                                | 52.0                               | 96.1                               | 6.7                                | 23.8                               | 2.9                                | 6.2                                | 0.6                                | 3.3                                | 0.5                                | 72.4                              | 1.65   | 54.7   | 4.4   |
|         | 94.0   | 95.0 | 1,325                              | 3,071                | 355                                | 1,289                              | 138                                | 28.3                               | 57.3                               | 5.1                                | 21.4                               | 2.9                                | 6.9                                | 0.7                                | 3.8                                | 0.5                                | 85.1                              | 0.64   | 33.1   | 5.1   |
|         | 95.0   | 96.0 | 1,133                              | 2,518                | 283                                | 961                                | 109                                | 23.2                               | 49.0                               | 4.9                                | 20.8                               | 3.1                                | 7.1                                | 0.7                                | 4.6                                | 0.5                                | 87.6                              | 0.52   | 26.9   | 3.6   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 96.0   | 97.0  | 1,017                              | 2,199                | 240                                | 844                                | 93                                 | 19.1                               | 42.2                               | 4.1                                | 17.0                               | 2.7                                | 5.7                                | 0.6                                | 3.3                                | 0.4                                | 72.4                              | 0.46   | 19.8   | 2.8   |
|         | 97.0   | 98.0  | 1,278                              | 2,702                | 297                                | 1,007                              | 102                                | 21.4                               | 47.6                               | 4.5                                | 18.9                               | 2.7                                | 5.7                                | 0.7                                | 3.5                                | 0.4                                | 72.4                              | 0.56   | 24     | 4.2   |
|         | 98.0   | 99.0  | 1,630                              | 3,882                | 452                                | 1,580                              | 162                                | 32.0                               | 65.1                               | 5.9                                | 23.5                               | 3.3                                | 7.0                                | 0.8                                | 4.0                                | 0.6                                | 86.4                              | 0.79   | 45.4   | 12.9  |
|         | 99.0   | 100.0 | 1,583                              | 3,562                | 406                                | 1,382                              | 140                                | 28.1                               | 57.4                               | 5.2                                | 20.9                               | 2.9                                | 6.8                                | 0.7                                | 3.8                                | 0.6                                | 78.7                              | 0.73   | 39.2   | 6.2   |
|         | 100.0  | 101.0 | 1,466                              | 3,403                | 388                                | 1,347                              | 143                                | 28.0                               | 56.7                               | 5.2                                | 19.7                               | 2.8                                | 6.0                                | 0.7                                | 3.3                                | 0.4                                | 76.2                              | 0.69   | 38     | 5.3   |
|         | 101.0  | 102.0 | 1,554                              | 3,636                | 419                                | 1,458                              | 151                                | 30.6                               | 61.4                               | 5.5                                | 22.4                               | 3.1                                | 6.6                                | 0.7                                | 3.8                                | 0.5                                | 83.8                              | 0.74   | 40.9   | 3.5   |
|         | 102.0  | 103.0 | 1,302                              | 2,825                | 312                                | 1,063                              | 114                                | 24.7                               | 51.3                               | 4.8                                | 20.9                               | 3.1                                | 7.0                                | 0.8                                | 3.8                                | 0.5                                | 83.8                              | 0.58   | 31.6   | 4.2   |
|         | 103.0  | 104.0 | 1,360                              | 3,169                | 364                                | 1,277                              | 137                                | 27.7                               | 56.1                               | 5.2                                | 21.5                               | 3.1                                | 6.4                                | 0.7                                | 3.9                                | 0.5                                | 83.8                              | 0.65   | 37.2   | 4.5   |
|         | 104.0  | 105.0 | 1,155                              | 2,555                | 286                                | 981                                | 107                                | 23.3                               | 48.9                               | 4.8                                | 20.4                               | 3.0                                | 6.4                                | 0.7                                | 3.9                                | 0.5                                | 86.4                              | 0.53   | 32.8   | 4.6   |
|         | 105.0  | 106.0 | 1,296                              | 2,850                | 323                                | 1,124                              | 121                                | 25.6                               | 52.0                               | 4.9                                | 20.2                               | 2.7                                | 6.0                                | 0.7                                | 4.2                                | 0.5                                | 77.5                              | 0.59   | 27.6   | 6.9   |
|         | 106.0  | 107.0 | 1,501                              | 3,476                | 399                                | 1,394                              | 147                                | 29.3                               | 58.7                               | 5.0                                | 19.3                               | 2.7                                | 5.7                                | 0.7                                | 3.6                                | 0.5                                | 73.7                              | 0.71   | 39.5   | 6.3   |
|         | 107.0  | 108.0 | 1,454                              | 3,304                | 371                                | 1,289                              | 138                                | 27.7                               | 56.1                               | 5.0                                | 19.7                               | 2.8                                | 6.4                                | 0.7                                | 3.9                                | 0.5                                | 78.7                              | 0.68   | 35.9   | 6.5   |
|         | 108.0  | 109.0 | 1,560                              | 3,759                | 431                                | 1,510                              | 153                                | 30.3                               | 58.6                               | 5.3                                | 19.5                               | 2.7                                | 5.6                                | 0.7                                | 4.0                                | 0.4                                | 74.9                              | 0.76   | 38.5   | 7.1   |
|         | 109.0  | 110.0 | 1,566                              | 3,673                | 426                                | 1,510                              | 171                                | 34.4                               | 72.6                               | 6.7                                | 27.5                               | 4.4                                | 10.3                               | 1.1                                | 6.2                                | 0.8                                | 119.4                             | 0.76   | 41.5   | 8     |
|         | 110.0  | 111.0 | 1,519                              | 3,526                | 396                                | 1,365                              | 137                                | 27.6                               | 56.6                               | 5.1                                | 20.1                               | 2.9                                | 6.5                                | 0.7                                | 3.5                                | 0.5                                | 81.3                              | 0.71   | 34.1   | 4.8   |
|         | 111.0  | 112.0 | 1,390                              | 3,182                | 361                                | 1,242                              | 129                                | 25.9                               | 53.4                               | 4.5                                | 19.9                               | 2.7                                | 6.2                                | 0.7                                | 3.5                                | 0.4                                | 77.5                              | 0.65   | 36.9   | 4.5   |
|         | 112.0  | 113.0 | 1,208                              | 2,641                | 294                                | 1,014                              | 112                                | 23.7                               | 50.9                               | 4.9                                | 20.1                               | 3.0                                | 6.5                                | 0.7                                | 4.3                                | 0.5                                | 82.5                              | 0.55   | 31     | 3.5   |
|         | 113.0  | 114.0 | 1,249                              | 2,702                | 297                                | 1,015                              | 112                                | 23.4                               | 51.6                               | 5.2                                | 23.0                               | 3.2                                | 6.9                                | 0.8                                | 4.2                                | 0.5                                | 91.4                              | 0.56   | 33.9   | 3.3   |
|         | 114.0  | 115.0 | 1,618                              | 3,476                | 399                                | 1,341                              | 139                                | 27.1                               | 54.4                               | 5.1                                | 20.7                               | 2.8                                | 6.5                                | 0.7                                | 3.8                                | 0.5                                | 76.2                              | 0.72   | 32.4   | 5.7   |
|         | 115.0  | 116.0 | 1,689                              | 3,280                | 425                                | 1,458                              | 189                                | 29.3                               | 134.3                              | 20.1                               | 115.3                              | 21.5                               | 57.2                               | 7.3                                | 41.6                               | 5.5                                | 737.8                             | 0.82   | 44.2   | 8.3   |
|         | 116.0  | 117.0 | 1,630                              | 3,538                | 410                                | 1,382                              | 142                                | 28.4                               | 59.9                               | 5.4                                | 21.6                               | 2.9                                | 6.5                                | 0.7                                | 4.4                                | 0.6                                | 82.5                              | 0.73   | 37.2   | 7.4   |
|         | 117.0  | 118.0 | 1,454                              | 3,169                | 377                                | 1,306                              | 146                                | 28.6                               | 60.9                               | 6.0                                | 24.9                               | 3.6                                | 8.6                                | 0.9                                | 5.2                                | 0.6                                | 104.1                             | 0.67   | 41.8   | 6.7   |
|         | 118.0  | 119.0 | 1,507                              | 3,317                | 393                                | 1,353                              | 146                                | 28.7                               | 60.5                               | 5.5                                | 22.8                               | 3.5                                | 7.7                                | 0.9                                | 5.0                                | 0.6                                | 94.0                              | 0.69   | 40.3   | 4.3   |
|         | 119.0  | 120.0 | 1,454                              | 3,194                | 387                                | 1,388                              | 165                                | 35.1                               | 78.6                               | 8.2                                | 34.4                               | 5.0                                | 10.4                               | 1.1                                | 6.7                                | 0.8                                | 141.0                             | 0.69   | 54.8   | 7     |
|         | 120.0  | 121.0 | 1,548                              | 3,390                | 394                                | 1,365                              | 141                                | 27.4                               | 57.3                               | 5.5                                | 22.6                               | 3.2                                | 7.0                                | 0.7                                | 4.2                                | 0.5                                | 87.6                              | 0.71   | 37.6   | 4.2   |
|         | 121.0  | 122.0 | 1,618                              | 3,648                | 434                                | 1,493                              | 151                                | 29.0                               | 58.2                               | 5.3                                | 20.5                               | 2.9                                | 6.6                                | 0.7                                | 3.8                                | 0.4                                | 80.0                              | 0.76   | 36     | 4.4   |
|         | 122.0  | 123.0 | 1,425                              | 3,083                | 366                                | 1,260                              | 140                                | 27.8                               | 57.5                               | 5.6                                | 22.8                               | 3.5                                | 7.2                                | 0.8                                | 4.3                                | 0.5                                | 90.2                              | 0.65   | 37.4   | 4.8   |
|         | 123.0  | 124.0 | 1,495                              | 3,280                | 384                                | 1,312                              | 142                                | 27.6                               | 62.0                               | 5.9                                | 23.0                               | 3.3                                | 6.9                                | 0.7                                | 4.3                                | 0.6                                | 90.2                              | 0.68   | 38.6   | 3.6   |
|         | 124.0  | 125.0 | 1,402                              | 2,936                | 338                                | 1,142                              | 121                                | 24.4                               | 52.7                               | 5.1                                | 21.1                               | 3.0                                | 6.4                                | 0.7                                | 4.3                                | 0.6                                | 83.8                              | 0.61   | 29.3   | 3.2   |
|         | 125.0  | 126.0 | 1,349                              | 2,788                | 325                                | 1,116                              | 126                                | 26.6                               | 56.7                               | 5.4                                | 22.6                               | 3.3                                | 6.8                                | 0.8                                | 4.8                                | 0.6                                | 88.9                              | 0.59   | 36     | 4.6   |
|         | 126.0  | 127.0 | 1,531                              | 3,354                | 391                                | 1,336                              | 143                                | 29.1                               | 58.9                               | 5.5                                | 22.3                               | 3.3                                | 7.4                                | 0.9                                | 4.8                                | 0.6                                | 91.4                              | 0.70   | 39     | 4.5   |
|         | 127.0  | 128.0 | 1,583                              | 3,673                | 445                                | 1,551                              | 165                                | 30.8                               | 62.4                               | 5.1                                | 19.5                               | 2.6                                | 5.6                                | 0.5                                | 3.3                                | 0.4                                | 67.3                              | 0.76   | 34.6   | 7     |
|         | 128.0  | 129.0 | 2,475                              | 5,380                | 610                                | 2,041                              | 206                                | 38.4                               | 74.1                               | 5.4                                | 18.8                               | 2.3                                | 4.4                                | 0.5                                | 2.6                                | 0.3                                | 58.4                              | 1.09   | 49.4   | 5.2   |
|         | 129.0  | 130.0 | 2,152                              | 4,717                | 551                                | 1,901                              | 198                                | 40.0                               | 78.6                               | 6.8                                | 25.5                               | 3.5                                | 7.0                                | 0.7                                | 4.9                                | 0.7                                | 94.0                              | 0.98   | 62.3   | 6.5   |
|         | 130.0  | 131.0 | 2,264                              | 4,766                | 535                                | 1,790                              | 173                                | 33.9                               | 69.6                               | 6.0                                | 23.5                               | 3.2                                | 7.2                                | 0.8                                | 4.7                                | 0.7                                | 88.9                              | 0.98   | 46.6   | 6.4   |
|         | 131.0  | 132.0 | 2,047                              | 4,213                | 475                                | 1,569                              | 167                                | 33.2                               | 69.9                               | 6.1                                | 21.8                               | 3.0                                | 6.2                                | 0.7                                | 3.3                                | 0.5                                | 78.7                              | 0.87   | 42.2   | 4.9   |
|         | 132.0  | 133.0 | 1,343                              | 2,850                | 330                                | 1,117                              | 117                                | 24.8                               | 52.3                               | 5.2                                | 21.7                               | 3.2                                | 7.3                                | 0.8                                | 4.4                                | 0.5                                | 88.9                              | 0.60   | 28.5   | 3.4   |
|         | 133.0  | 134.0 | 1,419                              | 3,120                | 366                                | 1,271                              | 137                                | 28.3                               | 60.4                               | 5.7                                | 23.9                               | 3.6                                | 8.1                                | 0.9                                | 4.9                                | 0.6                                | 95.2                              | 0.65   | 35.8   | 5.7   |
|         | 134.0  | 135.0 | 1,531                              | 3,317                | 384                                | 1,312                              | 139                                | 28.1                               | 61.3                               | 5.6                                | 23.6                               | 3.5                                | 7.2                                | 0.8                                | 4.0                                | 0.6                                | 94.0                              | 0.69   | 35.6   | 3.2   |
|         | 135.0  | 136.0 | 1,325                              | 2,764                | 321                                | 1,105                              | 119                                | 25.2                               | 55.7                               | 5.1                                | 20.9                               | 3.2                                | 6.6                                | 0.7                                | 4.4                                | 0.6                                | 88.9                              | 0.58   | 31.4   | 3.8   |
|         | 136.0  | 137.0 | 1,185                              | 2,543                | 301                                | 1,084                              | 125                                | 26.5                               | 58.1                               | 5.9                                | 25.7                               | 3.9                                | 7.9                                | 0.9                                | 4.8                                | 0.7                                | 99.1                              | 0.55   | 44.7   | 5.8   |
|         | 137.0  | 138.0 | 1,226                              | 2,592                | 304                                | 1,060                              | 121                                | 25.0                               | 53.8                               | 5.5                                | 22.6                               | 3.2                                | 7.4                                | 0.8                                | 5.0                                | 0.6                                | 94.0                              | 0.55   | 37.6   | 4.6   |
|         | 138.0  | 139.0 | 1,190                              | 2,592                | 311                                | 1,106                              | 126                                | 26.8                               | 58.3                               | 5.4                                | 24.2                               | 3.2                                | 7.0                                | 0.9                                | 4.7                                | 0.5                                | 86.4                              | 0.55   | 39.6   | 6.2   |
|         | 139.0  | 140.0 | 1,390                              | 2,997                | 344                                | 1,190                              | 124                                | 25.7                               | 52.1                               | 5.0                                | 22.2                               | 3.4                                | 6.9                                | 0.7                                | 4.2                                | 0.5                                | 90.2                              | 0.63   | 38.1   | 6.4   |
|         | 140.0  | 141.0 | 2,486                              | 5,258                | 611                                | 2,123                              | 215                                | 42.6                               | 83.1                               | 6.7                                | 24.3                               | 2.9                                | 6.2                                | 0.7                                | 4.2                                | 0.5                                | 82.5                              | 1.09   | 79.4   | 6.4   |
|         | 141.0  | 142.0 | 1,319                              | 2,887                | 341                                | 1,184                              | 124                                | 24.6                               | 52.8                               | 4.8                                | 20.2                               | 2.9                                | 6.0                                | 0.7                                | 3.3                                | 0.4                                | 71.1                              | 0.60   | 29.3   | 5     |

| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 142.0  | 143.0 | 1,278                              | 2,629                | 297                                | 1,011                              | 112                                | 22.6                               | 49.8                               | 4.8                                | 20.5                               | 2.9                                | 6.6                                | 0.7                                | 3.5                                | 0.4                                | 80.0                              | 0.55   | 24.6   | 4.2   |
|                 | 143.0  | 144.0 | 1,531                              | 3,268                | 377                                | 1,266                              | 130                                | 27.2                               | 57.1                               | 5.5                                | 23.0                               | 3.6                                | 7.6                                | 0.9                                | 4.4                                | 0.6                                | 96.5                              | 0.68   | 30.2   | 5.9   |
|                 | 144.0  | 145.0 | 1,888                              | 4,299                | 483                                | 1,633                              | 165                                | 32.7                               | 68.4                               | 6.4                                | 25.0                               | 4.1                                | 8.8                                | 1.0                                | 5.5                                | 0.8                                | 102.9                             | 0.87   | 36.7   | 6.7   |
|                 | 145.0  | 146.0 | 2,064                              | 4,729                | 544                                | 1,907                              | 190                                | 34.9                               | 68.1                               | 5.5                                | 19.2                               | 2.6                                | 5.6                                | 0.6                                | 3.4                                | 0.4                                | 67.3                              | 0.96   | 38.7   | 7.7   |
|                 | 146.0  | 147.0 | 5,371                              | 10,785               | 1,161                              | 4,047                              | 438                                | 79.8                               | 138.3                              | 8.7                                | 23.1                               | 2.4                                | 3.8                                | 0.4                                | 1.6                                | 0.2                                | 52.1                              | 2.21   | 79.5   | 7.1   |
|                 | 147.0  | 148.0 | 1,824                              | 4,029                | 451                                | 1,557                              | 159                                | 31.8                               | 64.0                               | 5.9                                | 22.8                               | 3.3                                | 6.6                                | 0.7                                | 3.9                                | 0.4                                | 86.4                              | 0.82   | 34.7   | 6.6   |
|                 | 148.0  | 149.0 | 1,220                              | 2,616                | 291                                | 1,009                              | 106                                | 23.0                               | 49.3                               | 5.2                                | 21.9                               | 3.1                                | 6.3                                | 0.8                                | 4.1                                | 0.5                                | 83.8                              | 0.54   | 25.5   | 7     |
|                 | 149.0  | 150.0 | 1,109                              | 2,383                | 263                                | 924                                | 96                                 | 20.0                               | 47.4                               | 4.6                                | 18.7                               | 2.9                                | 6.3                                | 0.6                                | 3.9                                | 0.4                                | 78.7                              | 0.50   | 23.9   | 6.7   |
|                 | 150.0  | 151.0 | 1,046                              | 2,254                | 253                                | 878                                | 96                                 | 20.3                               | 42.8                               | 4.4                                | 19.1                               | 2.9                                | 6.1                                | 0.7                                | 3.6                                | 0.4                                | 74.9                              | 0.47   | 21.9   | 7     |
|                 | 151.0  | 152.0 | 1,051                              | 2,340                | 267                                | 937                                | 107                                | 23.3                               | 49.1                               | 4.6                                | 19.3                               | 3.0                                | 6.5                                | 0.7                                | 3.6                                | 0.4                                | 77.5                              | 0.49   | 28.3   | 4.9   |
|                 | 152.0  | 153.0 | 1,097                              | 2,469                | 285                                | 995                                | 111                                | 22.5                               | 49.8                               | 4.8                                | 21.4                               | 3.0                                | 6.1                                | 0.7                                | 4.0                                | 0.4                                | 83.8                              | 0.52   | 26.7   | 5.7   |
|                 | 153.0  | 154.0 | 873                                | 1,953                | 227                                | 833                                | 97                                 | 19.2                               | 42.3                               | 4.3                                | 17.2                               | 2.6                                | 5.7                                | 0.6                                | 3.6                                | 0.5                                | 69.8                              | 0.41   | 27.4   | 5.9   |
|                 | 154.0  | 155.0 | 1,724                              | 3,992                | 453                                | 1,545                              | 144                                | 26.8                               | 49.6                               | 4.5                                | 16.9                               | 2.5                                | 5.2                                | 0.6                                | 3.4                                | 0.4                                | 64.8                              | 0.80   | 35.1   | 6.5   |
|                 | 155.0  | 156.0 | 2,545                              | 5,835                | 668                                | 2,344                              | 227                                | 38.4                               | 66.6                               | 4.3                                | 13.8                               | 1.6                                | 3.1                                | 0.4                                | 1.9                                | 0.3                                | 41.9                              | 1.18   | 34.8   | 4.1   |
|                 | 156.0  | 157.0 | 1,507                              | 3,255                | 359                                | 1,213                              | 125                                | 24.7                               | 52.0                               | 5.1                                | 20.2                               | 3.0                                | 6.3                                | 0.7                                | 3.6                                | 0.5                                | 82.5                              | 0.67   | 25.6   | 4.7   |
|                 | 157.0  | 158.0 | 1,396                              | 2,924                | 329                                | 1,152                              | 133                                | 26.5                               | 54.3                               | 5.3                                | 21.5                               | 3.2                                | 6.4                                | 0.7                                | 4.0                                | 0.5                                | 85.1                              | 0.61   | 40     | 5.2   |
|                 | 158.0  | 159.0 | 2,357                              | 5,540                | 644                                | 2,286                              | 222                                | 39.6                               | 68.6                               | 4.7                                | 15.0                               | 1.8                                | 3.2                                | 0.3                                | 2.3                                | 0.3                                | 43.2                              | 1.12   | 46.1   | 6.6   |
|                 | 159.0  | 160.0 | 2,199                              | 5,196                | 604                                | 2,111                              | 210                                | 39.7                               | 76.9                               | 6.4                                | 25.0                               | 3.4                                | 7.6                                | 0.8                                | 5.0                                | 0.6                                | 86.4                              | 1.06   | 49.8   | 8.8   |
|                 | 160.0  | 161.0 | 2,791                              | 6,351                | 724                                | 2,484                              | 237                                | 44.0                               | 79.8                               | 6.0                                | 21.0                               | 2.7                                | 5.4                                | 0.6                                | 3.5                                | 0.4                                | 63.5                              | 1.28   | 53     | 7     |
|                 | 161.0  | 162.0 | 2,522                              | 5,614                | 629                                | 2,170                              | 215                                | 37.9                               | 72.2                               | 5.7                                | 19.5                               | 2.6                                | 5.0                                | 0.6                                | 3.5                                | 0.4                                | 66.0                              | 1.14   | 44.5   | 9.8   |
|                 | 162.0  | 163.0 | 1,396                              | 3,071                | 343                                | 1,172                              | 118                                | 23.7                               | 49.1                               | 4.5                                | 19.1                               | 2.9                                | 6.5                                | 0.7                                | 4.0                                | 0.5                                | 76.2                              | 0.63   | 30.6   | 6.4   |
|                 | 163.0  | 164.0 | 1,337                              | 2,887                | 325                                | 1,106                              | 117                                | 24.1                               | 49.6                               | 5.0                                | 20.5                               | 3.1                                | 6.3                                | 0.8                                | 4.1                                | 0.6                                | 81.3                              | 0.60   | 27.6   | 7     |
|                 | 164.0  | 165.0 | 1,425                              | 3,157                | 350                                | 1,190                              | 122                                | 24.2                               | 50.6                               | 4.8                                | 19.6                               | 3.1                                | 6.3                                | 0.6                                | 3.8                                | 0.5                                | 81.3                              | 0.64   | 28.2   | 6.5   |
|                 | 165.0  | 166.0 | 1,135                              | 2,506                | 282                                | 977                                | 105                                | 21.2                               | 46.3                               | 4.5                                | 18.7                               | 2.7                                | 6.4                                | 0.7                                | 3.4                                | 0.4                                | 77.5                              | 0.52   | 25.9   | 8.6   |
|                 | 166.0  | 167.0 | 1,308                              | 2,788                | 309                                | 1,075                              | 113                                | 24.6                               | 54.4                               | 5.3                                | 24.1                               | 3.6                                | 8.1                                | 0.9                                | 4.7                                | 0.6                                | 97.8                              | 0.58   | 31.6   | 6.8   |
|                 | 167.0  | 168.0 | 1,959                              | 4,422                | 488                                | 1,662                              | 157                                | 30.3                               | 63.6                               | 5.8                                | 23.5                               | 3.4                                | 7.1                                | 0.8                                | 4.6                                | 0.6                                | 91.4                              | 0.89   | 34.8   | 5.1   |
|                 | 168.0  | 169.0 | 1,115                              | 2,451                | 272                                | 937                                | 108                                | 22.7                               | 49.0                               | 5.0                                | 22.4                               | 3.3                                | 7.6                                | 0.8                                | 4.9                                | 0.6                                | 90.2                              | 0.51   | 31.1   | 4.5   |
|                 | 169.0  | 170.0 | 1,237                              | 2,702                | 301                                | 1,031                              | 117                                | 24.7                               | 54.1                               | 5.4                                | 23.1                               | 3.5                                | 8.0                                | 0.8                                | 4.7                                | 0.7                                | 95.2                              | 0.56   | 30.8   | 5.7   |
|                 | 170.0  | 171.0 | 1,466                              | 3,218                | 358                                | 1,213                              | 124                                | 24.1                               | 46.8                               | 4.4                                | 16.9                               | 2.4                                | 4.5                                | 0.5                                | 3.2                                | 0.4                                | 62.2                              | 0.65   | 30.4   | 6.4   |
|                 | 171.0  | 172.0 | 1,513                              | 3,218                | 350                                | 1,196                              | 128                                | 25.8                               | 56.7                               | 6.4                                | 29.5                               | 4.4                                | 10.3                               | 1.2                                | 7.3                                | 1.1                                | 134.6                             | 0.67   | 52.2   | 6.5   |
|                 | 172.0  | 173.0 | 1,513                              | 3,108                | 329                                | 1,102                              | 113                                | 22.7                               | 51.4                               | 5.7                                | 24.6                               | 3.5                                | 7.7                                | 0.9                                | 5.8                                | 0.7                                | 99.1                              | 0.64   | 36.7   | 5.1   |
|                 | 173.0  | 174.0 | 1,319                              | 2,739                | 314                                | 1,057                              | 115                                | 24.8                               | 54.4                               | 5.4                                | 24.3                               | 3.4                                | 7.1                                | 0.8                                | 4.4                                | 0.6                                | 94.0                              | 0.58   | 31.3   | 6.4   |
|                 | 174.0  | 175.0 | 1,701                              | 3,734                | 431                                | 1,423                              | 135                                | 25.7                               | 53.3                               | 4.9                                | 17.5                               | 2.5                                | 5.2                                | 0.6                                | 3.1                                | 0.4                                | 67.3                              | 0.76   | 27.7   | 5.9   |
|                 | 175.0  | 176.0 | 2,733                              | 5,958                | 689                                | 2,251                              | 214                                | 40.1                               | 78.6                               | 6.7                                | 25.3                               | 3.2                                | 6.5                                | 0.8                                | 4.4                                | 0.6                                | 82.5                              | 1.21   | 61     | 6.4   |
|                 | 176.0  | 177.0 | 1,560                              | 3,599                | 436                                | 1,481                              | 155                                | 30.3                               | 64.9                               | 5.9                                | 25.0                               | 3.6                                | 7.7                                | 0.9                                | 4.4                                | 0.6                                | 94.0                              | 0.75   | 40.1   | 7     |
|                 | 177.0  | 178.0 | 1,153                              | 2,457                | 285                                | 948                                | 100                                | 20.6                               | 46.3                               | 4.4                                | 19.6                               | 2.9                                | 6.1                                | 0.7                                | 3.8                                | 0.5                                | 78.7                              | 0.51   | 23.7   | 21.5  |
|                 | 178.0  | 179.0 | 828                                | 1,787                | 208                                | 705                                | 78                                 | 15.6                               | 36.7                               | 3.8                                | 16.8                               | 2.4                                | 5.3                                | 0.6                                | 2.9                                | 0.3                                | 63.5                              | 0.38   | 17.6   | 8     |
|                 | 179.0  | 180.0 | 1,331                              | 2,715                | 307                                | 1,002                              | 107                                | 22.7                               | 52.0                               | 5.3                                | 24.0                               | 3.5                                | 8.0                                | 0.9                                | 5.1                                | 0.6                                | 96.5                              | 0.57   | 36.6   | 8.1   |
|                 | 180.0  | 181.0 | 4,808                              | 9,569                | 1,004                              | 3,044                              | 252                                | 46.6                               | 89.3                               | 7.2                                | 25.9                               | 3.2                                | 6.1                                | 0.6                                | 3.3                                | 0.5                                | 78.7                              | 1.89   | 67.1   | 4.8   |
| <b>KGKRC033</b> | 0.0    | 1.0   | 8,339                              | 16,092               | 1,655                              | 5,016                              | 404                                | 70.9                               | 127.4                              | 8.6                                | 25.9                               | 2.6                                | 4.0                                | 0.3                                | 2.1                                | 0.2                                | 55.9                              | 3.18   | 89.8   | 3.4   |
|                 | 1.0    | 2.0   | 4,210                              | 8,734                | 941                                | 2,904                              | 217                                | 36.9                               | 63.7                               | 4.3                                | 13.1                               | 1.5                                | 2.3                                | 0.2                                | 0.9                                | 0.2                                | 33.0                              | 1.72   | 38.8   | 5.5   |
|                 | 2.0    | 3.0   | 2,580                              | 5,172                | 551                                | 1,668                              | 122                                | 21.0                               | 36.8                               | 2.5                                | 7.4                                | 0.9                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 1.02   | 21.8   | 11.7  |
|                 | 3.0    | 4.0   | 4,421                              | 8,857                | 940                                | 2,834                              | 217                                | 37.2                               | 62.8                               | 4.3                                | 13.0                               | 1.2                                | 2.2                                | 0.2                                | 1.3                                | 0.1                                | 30.5                              | 1.74   | 37.2   | 4.5   |
|                 | 4.0    | 5.0   | 4,691                              | 9,188                | 942                                | 2,834                              | 210                                | 34.5                               | 58.0                               | 3.4                                | 10.8                               | 1.1                                | 1.8                                | 0.1                                | 0.7                                | 0.1                                | 24.1                              | 1.80   | 31.2   | 3.6   |
|                 | 5.0    | 6.0   | 5,113                              | 9,962                | 1,037                              | 3,103                              | 237                                | 39.5                               | 66.5                               | 4.3                                | 13.1                               | 1.5                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 30.5                              | 1.96   | 41.8   | 3.8   |
|                 | 6.0    | 7.0   | 4,902                              | 9,790                | 1,022                              | 3,079                              | 220                                | 34.5                               | 58.3                               | 3.7                                | 10.9                               | 1.1                                | 1.8                                | 0.2                                | 0.7                                | 0.1                                | 25.4                              | 1.92   | 32.7   | 3.2   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 7.0    | 8.0  | 3,741                              | 7,616                | 812                                | 2,473                              | 176                                | 27.2                               | 45.2                               | 2.7                                | 9.2                                | 0.9                                | 1.4                                | 0.1                                | 0.8                                | 0.1                                | 21.6                              | 1.49   | 23.7   | 5     |
|         | 8.0    | 9.0  | 5,289                              | 11,117               | 1,194                              | 3,663                              | 282                                | 47.7                               | 82.0                               | 5.4                                | 16.0                               | 1.6                                | 2.1                                | 0.3                                | 1.3                                | 0.2                                | 34.3                              | 2.17   | 48.6   | 4     |
|         | 9.0    | 10.0 | 4,914                              | 10,220               | 1,085                              | 3,301                              | 230                                | 36.5                               | 59.6                               | 3.6                                | 10.3                               | 1.1                                | 1.5                                | 0.1                                | 0.8                                | 0.1                                | 21.6                              | 1.99   | 30.7   | 4.4   |
|         | 10.0   | 11.0 | 2,557                              | 5,368                | 588                                | 1,785                              | 132                                | 21.8                               | 37.0                               | 2.3                                | 7.2                                | 0.8                                | 1.4                                | 0.1                                | 0.8                                | 0.1                                | 17.8                              | 1.05   | 19.4   | 10.4  |
|         | 11.0   | 12.0 | 1,484                              | 3,157                | 356                                | 1,134                              | 94                                 | 17.1                               | 31.8                               | 2.2                                | 8.8                                | 1.1                                | 2.3                                | 0.2                                | 1.6                                | 0.2                                | 29.2                              | 0.63   | 18.9   | 11.7  |
|         | 12.0   | 13.0 | 2,228                              | 4,791                | 545                                | 1,726                              | 145                                | 25.6                               | 46.8                               | 3.3                                | 10.6                               | 1.1                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 29.2                              | 0.96   | 25.9   | 11.7  |
|         | 13.0   | 14.0 | 3,190                              | 6,621                | 716                                | 2,181                              | 173                                | 27.8                               | 49.3                               | 3.3                                | 9.5                                | 1.0                                | 1.6                                | 0.1                                | 0.6                                | 0.1                                | 21.6                              | 1.30   | 27.1   | 6.4   |
|         | 14.0   | 15.0 | 3,413                              | 7,051                | 764                                | 2,356                              | 181                                | 30.6                               | 53.0                               | 3.3                                | 9.8                                | 1.0                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 1.39   | 27.2   | 8.5   |
|         | 15.0   | 16.0 | 3,296                              | 6,867                | 743                                | 2,292                              | 176                                | 30.0                               | 52.7                               | 3.2                                | 9.8                                | 1.0                                | 1.7                                | 0.1                                | 0.8                                | 0.1                                | 19.1                              | 1.35   | 27.3   | 10.8  |
|         | 16.0   | 17.0 | 3,237                              | 6,928                | 765                                | 2,391                              | 192                                | 32.8                               | 59.1                               | 3.9                                | 11.5                               | 1.3                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 31.8                              | 1.37   | 31.7   | 11.6  |
|         | 17.0   | 18.0 | 2,991                              | 6,498                | 731                                | 2,321                              | 190                                | 34.4                               | 59.5                               | 4.0                                | 12.6                               | 1.4                                | 2.5                                | 0.3                                | 1.5                                | 0.2                                | 33.0                              | 1.29   | 33     | 13.9  |
|         | 18.0   | 19.0 | 3,131                              | 6,609                | 726                                | 2,222                              | 172                                | 28.8                               | 50.0                               | 3.2                                | 9.6                                | 1.0                                | 1.6                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 1.30   | 26     | 15.6  |
|         | 19.0   | 20.0 | 2,733                              | 5,835                | 642                                | 1,989                              | 148                                | 24.9                               | 43.6                               | 2.7                                | 8.4                                | 0.9                                | 1.5                                | 0.1                                | 0.9                                | 0.1                                | 20.3                              | 1.14   | 23.3   | 12.5  |
|         | 20.0   | 21.0 | 3,084                              | 6,842                | 766                                | 2,414                              | 177                                | 27.9                               | 47.5                               | 2.7                                | 8.0                                | 0.8                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 19.1                              | 1.34   | 23.5   | 6.1   |
|         | 21.0   | 22.0 | 3,073                              | 6,830                | 766                                | 2,426                              | 188                                | 30.9                               | 54.4                               | 3.4                                | 10.0                               | 1.0                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 1.34   | 28.3   | 10    |
|         | 22.0   | 23.0 | 1,695                              | 3,845                | 423                                | 1,476                              | 157                                | 32.4                               | 69.4                               | 6.8                                | 27.1                               | 4.1                                | 10.0                               | 1.0                                | 6.7                                | 0.9                                | 115.6                             | 0.79   | 39.3   | 21.2  |
|         | 23.0   | 24.0 | 1,789                              | 4,078                | 453                                | 1,575                              | 168                                | 34.3                               | 71.5                               | 6.7                                | 27.1                               | 4.1                                | 10.2                               | 1.1                                | 6.7                                | 0.9                                | 114.3                             | 0.83   | 48.7   | 16.4  |
|         | 24.0   | 25.0 | 1,818                              | 4,140                | 463                                | 1,610                              | 166                                | 34.0                               | 67.0                               | 6.1                                | 24.3                               | 3.5                                | 7.6                                | 0.9                                | 5.1                                | 0.7                                | 95.2                              | 0.84   | 61.5   | 14    |
|         | 25.0   | 26.0 | 1,572                              | 3,403                | 370                                | 1,301                              | 142                                | 30.1                               | 66.6                               | 6.6                                | 27.3                               | 4.1                                | 8.8                                | 1.0                                | 6.0                                | 0.6                                | 110.5                             | 0.70   | 53.8   | 13.8  |
|         | 26.0   | 27.0 | 1,601                              | 3,562                | 391                                | 1,353                              | 143                                | 28.5                               | 60.1                               | 5.6                                | 24.0                               | 3.4                                | 7.6                                | 0.8                                | 4.6                                | 0.6                                | 90.2                              | 0.73   | 51     | 14.9  |
|         | 27.0   | 28.0 | 2,105                              | 4,607                | 495                                | 1,680                              | 163                                | 30.0                               | 60.2                               | 5.3                                | 19.7                               | 2.7                                | 6.0                                | 0.6                                | 3.6                                | 0.5                                | 71.1                              | 0.92   | 41.1   | 12.6  |
|         | 28.0   | 29.0 | 1,489                              | 3,366                | 373                                | 1,341                              | 155                                | 33.0                               | 66.6                               | 6.5                                | 27.4                               | 4.0                                | 8.4                                | 1.0                                | 5.2                                | 0.6                                | 110.5                             | 0.70   | 51.6   | 8.2   |
|         | 29.0   | 30.0 | 1,601                              | 3,968                | 462                                | 1,650                              | 157                                | 28.7                               | 51.9                               | 3.5                                | 12.9                               | 1.6                                | 4.0                                | 0.4                                | 2.3                                | 0.3                                | 47.0                              | 0.80   | 34.1   | 7.3   |
|         | 30.0   | 31.0 | 3,120                              | 6,302                | 673                                | 2,187                              | 172                                | 28.6                               | 46.9                               | 3.1                                | 10.1                               | 1.1                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 1.26   | 25.4   | 6.9   |
|         | 31.0   | 32.0 | 7,189                              | 13,328               | 1,377                              | 4,246                              | 289                                | 45.6                               | 73.2                               | 4.5                                | 12.1                               | 1.2                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 2.66   | 40.2   | 5.7   |
|         | 32.0   | 33.0 | 8,679                              | 15,662               | 1,577                              | 4,782                              | 337                                | 57.9                               | 98.8                               | 6.5                                | 17.7                               | 1.7                                | 2.9                                | 0.3                                | 1.4                                | 0.2                                | 38.1                              | 3.13   | 62.8   | 4.4   |
|         | 33.0   | 34.0 | 5,055                              | 9,311                | 941                                | 2,951                              | 215                                | 35.6                               | 61.9                               | 3.9                                | 11.4                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 1.86   | 38     | 7.2   |
|         | 34.0   | 35.0 | 4,973                              | 9,336                | 965                                | 3,033                              | 210                                | 33.7                               | 56.7                               | 3.5                                | 10.2                               | 1.1                                | 1.8                                | 0.2                                | 1.0                                | 0.2                                | 22.9                              | 1.86   | 31.2   | 6.6   |
|         | 35.0   | 36.0 | 4,515                              | 8,795                | 922                                | 2,893                              | 204                                | 31.3                               | 50.1                               | 3.0                                | 8.0                                | 0.9                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 20.3                              | 1.74   | 24.6   | 3.4   |
|         | 36.0   | 37.0 | 5,172                              | 10,073               | 1,035                              | 3,196                              | 219                                | 34.9                               | 55.1                               | 3.6                                | 9.6                                | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.98   | 28.6   | 6.2   |
|         | 37.0   | 38.0 | 3,366                              | 6,977                | 743                                | 2,403                              | 175                                | 27.6                               | 44.1                               | 2.8                                | 8.4                                | 0.9                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 20.3                              | 1.38   | 24.4   | 7.4   |
|         | 38.0   | 39.0 | 4,562                              | 9,164                | 997                                | 3,219                              | 235                                | 37.3                               | 59.6                               | 3.8                                | 9.5                                | 1.0                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 21.6                              | 1.83   | 29.1   | 5.5   |
|         | 39.0   | 40.0 | 3,976                              | 8,427                | 936                                | 3,091                              | 227                                | 33.9                               | 53.9                               | 2.9                                | 7.8                                | 0.9                                | 1.4                                | 0.2                                | 0.7                                | 0.1                                | 17.8                              | 1.68   | 25.4   | 3.9   |
|         | 40.0   | 41.0 | 3,870                              | 8,341                | 917                                | 3,021                              | 217                                | 33.9                               | 53.3                               | 3.1                                | 8.2                                | 0.9                                | 1.5                                | 0.2                                | 0.9                                | 0.1                                | 17.8                              | 1.65   | 25.7   | 3.9   |
|         | 41.0   | 42.0 | 4,762                              | 9,839                | 1,087                              | 3,523                              | 252                                | 39.6                               | 64.1                               | 3.8                                | 10.1                               | 1.1                                | 1.6                                | 0.2                                | 0.8                                | 0.2                                | 21.6                              | 1.96   | 35     | 5.1   |
|         | 42.0   | 43.0 | 6,615                              | 13,267               | 1,420                              | 4,584                              | 351                                | 60.4                               | 101.4                              | 6.6                                | 18.1                               | 1.7                                | 2.5                                | 0.2                                | 1.1                                | 0.2                                | 36.8                              | 2.65   | 65     | 3.2   |
|         | 43.0   | 44.0 | 4,961                              | 10,159               | 1,092                              | 3,534                              | 267                                | 43.9                               | 75.6                               | 4.6                                | 13.3                               | 1.5                                | 2.4                                | 0.2                                | 1.0                                | 0.2                                | 29.2                              | 2.02   | 46.7   | 2.9   |
|         | 44.0   | 45.0 | 4,117                              | 8,881                | 980                                | 3,208                              | 234                                | 37.4                               | 60.6                               | 3.5                                | 10.1                               | 0.9                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.76   | 30.6   | 3.3   |
|         | 45.0   | 46.0 | 3,776                              | 8,009                | 889                                | 2,974                              | 223                                | 34.5                               | 54.1                               | 3.1                                | 8.4                                | 1.0                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 19.1                              | 1.60   | 29.4   | 4.5   |
|         | 46.0   | 47.0 | 4,046                              | 8,574                | 944                                | 3,068                              | 227                                | 35.7                               | 56.0                               | 3.1                                | 8.5                                | 0.9                                | 1.6                                | 0.1                                | 0.8                                | 0.1                                | 17.8                              | 1.70   | 25.8   | 4.6   |
|         | 47.0   | 48.0 | 6,286                              | 12,038               | 1,269                              | 3,977                              | 270                                | 43.1                               | 68.2                               | 3.9                                | 10.4                               | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.2                                | 21.6                              | 2.40   | 33.3   | 4.7   |
|         | 48.0   | 49.0 | 4,656                              | 9,729                | 1,062                              | 3,488                              | 249                                | 38.4                               | 59.5                               | 3.5                                | 9.2                                | 0.9                                | 1.7                                | 0.1                                | 0.8                                | 0.1                                | 19.1                              | 1.93   | 29.5   | 4.4   |
|         | 49.0   | 50.0 | 3,753                              | 8,550                | 864                                | 2,776                              | 202                                | 30.3                               | 48.5                               | 3.0                                | 7.8                                | 0.8                                | 1.4                                | 0.2                                | 0.7                                | 0.1                                | 15.2                              | 1.63   | 23.2   | 4.3   |
|         | 50.0   | 51.0 | 4,081                              | 9,139                | 916                                | 2,951                              | 214                                | 31.4                               | 51.4                               | 3.2                                | 8.8                                | 0.9                                | 1.6                                | 0.3                                | 0.8                                | 0.2                                | 19.1                              | 1.74   | 26.6   | 3.9   |
|         | 51.0   | 52.0 | 4,750                              | 10,871               | 1,106                              | 3,593                              | 262                                | 38.8                               | 63.2                               | 3.7                                | 9.8                                | 1.0                                | 1.7                                | 0.1                                | 0.9                                | 0.1                                | 21.6                              | 2.07   | 30.7   | 5.1   |
|         | 52.0   | 53.0 | 5,512                              | 12,898               | 1,341                              | 4,316                              | 310                                | 47.5                               | 74.3                               | 4.5                                | 12.2                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 2.45   | 35     | 3.7   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 53.0   | 54.0 | 6,685                              | 14,618               | 1,444                              | 4,561                              | 319                                | 48.2                               | 78.4                               | 4.7                                | 13.1                               | 1.2                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 2.78   | 38.5   | 3     |
|         | 54.0   | 55.0 | 5,137                              | 11,068               | 1,102                              | 3,453                              | 235                                | 35.8                               | 56.9                               | 3.5                                | 9.4                                | 0.9                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 2.11   | 26.5   | 3.4   |
|         | 55.0   | 56.0 | 4,117                              | 8,930                | 866                                | 2,706                              | 187                                | 28.0                               | 45.5                               | 2.9                                | 7.6                                | 0.8                                | 1.4                                | 0.2                                | 0.7                                | 0.2                                | 16.5                              | 1.69   | 21.8   | 2.7   |
|         | 56.0   | 57.0 | 5,090                              | 10,834               | 1,040                              | 3,196                              | 228                                | 34.6                               | 57.4                               | 3.8                                | 10.7                               | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 2.05   | 30.1   | 2.3   |
|         | 57.0   | 58.0 | 4,457                              | 10,024               | 992                                | 3,138                              | 215                                | 31.5                               | 49.9                               | 3.0                                | 7.9                                | 0.9                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 16.5                              | 1.89   | 24     | 2.9   |
|         | 58.0   | 59.0 | 5,700                              | 12,345               | 1,185                              | 3,639                              | 248                                | 37.4                               | 60.1                               | 3.7                                | 9.6                                | 0.9                                | 1.5                                | 0.1                                | 0.9                                | 0.1                                | 20.3                              | 2.33   | 27.1   | 3.4   |
|         | 59.0   | 60.0 | 5,172                              | 10,994               | 1,058                              | 3,266                              | 225                                | 33.9                               | 54.2                               | 3.1                                | 9.0                                | 0.9                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 20.3                              | 2.08   | 27     | 2.6   |
|         | 60.0   | 61.0 | 4,445                              | 9,262                | 882                                | 2,729                              | 185                                | 27.8                               | 45.8                               | 2.7                                | 8.2                                | 0.7                                | 1.5                                | 0.1                                | 0.8                                | 0.1                                | 17.8                              | 1.76   | 21.2   | 1.8   |
|         | 61.0   | 62.0 | 6,016                              | 12,014               | 1,128                              | 3,453                              | 242                                | 39.3                               | 67.7                               | 4.6                                | 13.4                               | 1.4                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 30.5                              | 2.30   | 35.7   | 1.7   |
|         | 62.0   | 63.0 | 6,274                              | 13,082               | 1,238                              | 3,756                              | 253                                | 38.3                               | 63.3                               | 4.0                                | 11.3                               | 1.1                                | 1.7                                | 0.1                                | 0.9                                | 0.1                                | 24.1                              | 2.47   | 30.2   | 2.4   |
|         | 63.0   | 64.0 | 4,914                              | 10,159               | 968                                | 2,963                              | 206                                | 31.3                               | 53.6                               | 3.4                                | 9.3                                | 0.9                                | 1.5                                | 0.1                                | 0.6                                | 0.1                                | 19.1                              | 1.93   | 24.9   | 2.2   |
|         | 64.0   | 65.0 | 6,040                              | 12,714               | 1,214                              | 3,697                              | 253                                | 40.5                               | 67.9                               | 4.5                                | 13.2                               | 1.5                                | 2.5                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 2.41   | 37.3   | 1.4   |
|         | 65.0   | 66.0 | 5,899                              | 12,235               | 1,162                              | 3,523                              | 240                                | 36.1                               | 59.9                               | 3.8                                | 10.4                               | 1.1                                | 1.9                                | 0.1                                | 0.7                                | 0.1                                | 24.1                              | 2.32   | 30.6   | 3.6   |
|         | 66.0   | 67.0 | 5,090                              | 10,663               | 1,010                              | 3,103                              | 215                                | 33.7                               | 55.3                               | 3.5                                | 9.1                                | 1.0                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 2.02   | 25.1   | 2.3   |
|         | 67.0   | 68.0 | 8,491                              | 18,979               | 1,927                              | 5,879                              | 419                                | 63.1                               | 103.6                              | 6.0                                | 14.6                               | 1.5                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 27.9                              | 3.59   | 47.6   | 1.8   |
|         | 68.0   | 69.0 | 9,816                              | 19,163               | 1,740                              | 5,249                              | 372                                | 59.3                               | 103.6                              | 6.7                                | 19.1                               | 2.0                                | 3.4                                | 0.3                                | 1.4                                | 0.2                                | 43.2                              | 3.66   | 54.4   | 1.8   |
|         | 69.0   | 70.0 | 4,996                              | 10,245               | 974                                | 2,998                              | 209                                | 31.7                               | 52.9                               | 3.4                                | 9.2                                | 0.9                                | 1.8                                | 0.1                                | 0.8                                | 0.1                                | 19.1                              | 1.95   | 25     | 4.5   |
|         | 70.0   | 71.0 | 5,160                              | 10,810               | 1,022                              | 3,114                              | 220                                | 33.5                               | 53.3                               | 3.3                                | 8.7                                | 0.9                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 2.04   | 25.1   | 3.8   |
|         | 71.0   | 72.0 | 4,539                              | 9,434                | 889                                | 2,741                              | 192                                | 29.4                               | 48.4                               | 3.2                                | 8.6                                | 1.0                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.79   | 22.7   | 2.6   |
|         | 72.0   | 73.0 | 5,841                              | 12,468               | 1,214                              | 3,779                              | 257                                | 38.1                               | 62.1                               | 3.8                                | 9.5                                | 0.9                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 2.37   | 26.4   | 4     |
|         | 73.0   | 74.0 | 5,430                              | 11,191               | 1,070                              | 3,324                              | 233                                | 35.1                               | 58.2                               | 3.6                                | 9.5                                | 0.9                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 2.14   | 26.9   | 1.8   |
|         | 74.0   | 75.0 | 6,791                              | 14,004               | 1,335                              | 4,094                              | 278                                | 42.8                               | 70.5                               | 4.4                                | 12.4                               | 1.3                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 26.7                              | 2.67   | 35.3   | 1.8   |
|         | 75.0   | 76.0 | 7,295                              | 15,908               | 1,547                              | 4,794                              | 326                                | 49.7                               | 82.3                               | 5.5                                | 15.8                               | 1.5                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 33.0                              | 3.01   | 42.9   | 2.4   |
|         | 76.0   | 77.0 | 5,442                              | 11,264               | 1,069                              | 3,254                              | 223                                | 33.2                               | 54.4                               | 3.6                                | 9.3                                | 1.0                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 21.6                              | 2.14   | 25.1   | 1.9   |
|         | 77.0   | 78.0 | 5,254                              | 11,142               | 1,078                              | 3,301                              | 223                                | 33.8                               | 55.7                               | 3.5                                | 10.1                               | 0.9                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 2.11   | 25.9   | 1.7   |
|         | 78.0   | 79.0 | 4,351                              | 9,041                | 860                                | 2,659                              | 190                                | 29.2                               | 48.5                               | 3.0                                | 8.0                                | 0.9                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 1.72   | 22.7   | 4     |
|         | 79.0   | 80.0 | 7,236                              | 15,724               | 1,649                              | 5,155                              | 358                                | 57.7                               | 90.3                               | 5.3                                | 14.2                               | 1.4                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 27.9                              | 3.03   | 40.5   | 4.9   |
|         | 80.0   | 81.0 | 4,832                              | 9,704                | 973                                | 2,928                              | 202                                | 31.4                               | 49.6                               | 3.1                                | 8.3                                | 0.8                                | 1.4                                | 0.2                                | 0.8                                | 0.1                                | 19.1                              | 1.88   | 22.1   | 3     |
|         | 81.0   | 82.0 | 5,266                              | 10,527               | 1,049                              | 3,196                              | 217                                | 33.7                               | 52.3                               | 2.9                                | 8.7                                | 0.9                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 2.04   | 22     | 1.7   |
|         | 82.0   | 83.0 | 5,336                              | 10,515               | 1,058                              | 3,231                              | 224                                | 34.7                               | 53.9                               | 3.4                                | 9.0                                | 1.0                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 20.3                              | 2.05   | 24.8   | 1.9   |
|         | 83.0   | 84.0 | 6,650                              | 13,697               | 1,395                              | 4,222                              | 285                                | 45.4                               | 72.2                               | 4.9                                | 14.5                               | 1.6                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 35.6                              | 2.64   | 36.4   | 2.9   |
|         | 84.0   | 85.0 | 5,993                              | 12,100               | 1,208                              | 3,674                              | 252                                | 39.7                               | 62.5                               | 3.9                                | 11.7                               | 1.2                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 2.34   | 28.1   | 1.6   |
|         | 85.0   | 86.0 | 6,978                              | 13,512               | 1,317                              | 3,942                              | 256                                | 41.0                               | 64.7                               | 4.1                                | 11.7                               | 1.2                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 2.62   | 30.4   | 2.6   |
|         | 86.0   | 87.0 | 8,620                              | 16,461               | 1,607                              | 4,759                              | 320                                | 50.3                               | 78.6                               | 4.9                                | 13.5                               | 1.3                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 29.2                              | 3.19   | 33     | 3.9   |
|         | 87.0   | 88.0 | 9,265                              | 18,487               | 1,849                              | 5,599                              | 366                                | 56.2                               | 87.5                               | 5.0                                | 13.3                               | 1.4                                | 2.1                                | 0.2                                | 0.6                                | 0.1                                | 25.4                              | 3.58   | 36.4   | 3     |
|         | 88.0   | 89.0 | 5,970                              | 12,075               | 1,220                              | 3,744                              | 256                                | 40.3                               | 65.1                               | 4.0                                | 11.1                               | 1.1                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 2.34   | 29.5   | 2.4   |
|         | 89.0   | 90.0 | 5,934                              | 12,063               | 1,220                              | 3,732                              | 257                                | 40.9                               | 66.9                               | 4.2                                | 12.6                               | 1.3                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 27.9                              | 2.34   | 30.5   | 1.6   |
|         | 90.0   | 91.0 | 4,562                              | 9,029                | 899                                | 2,764                              | 207                                | 33.7                               | 56.5                               | 3.8                                | 11.5                               | 1.3                                | 2.1                                | 0.2                                | 0.8                                | 0.2                                | 29.2                              | 1.76   | 31.3   | 1.2   |
|         | 91.0   | 92.0 | 5,958                              | 12,087               | 1,207                              | 3,697                              | 253                                | 40.1                               | 62.7                               | 3.8                                | 10.1                               | 1.1                                | 1.5                                | 0.2                                | 0.7                                | 0.2                                | 22.9                              | 2.33   | 28.4   | 1.8   |
|         | 92.0   | 93.0 | 5,266                              | 10,577               | 1,061                              | 3,254                              | 228                                | 37.4                               | 59.4                               | 3.7                                | 10.6                               | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.2                                | 22.9                              | 2.05   | 27.3   | 3.1   |
|         | 93.0   | 94.0 | 5,078                              | 10,478               | 1,049                              | 3,219                              | 225                                | 34.9                               | 53.6                               | 3.1                                | 8.8                                | 0.9                                | 1.5                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 2.02   | 26     | 2.9   |
|         | 94.0   | 95.0 | 5,067                              | 10,613               | 1,086                              | 3,359                              | 228                                | 35.2                               | 54.8                               | 3.4                                | 9.3                                | 1.0                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 2.05   | 24.9   | 2.3   |
|         | 95.0   | 96.0 | 5,442                              | 11,277               | 1,165                              | 3,558                              | 252                                | 39.5                               | 61.6                               | 3.9                                | 10.7                               | 1.1                                | 1.7                                | 0.2                                | 0.9                                | 0.2                                | 22.9                              | 2.18   | 28.2   | 3.1   |
|         | 96.0   | 97.0 | 5,594                              | 11,375               | 1,150                              | 3,523                              | 238                                | 38.1                               | 60.5                               | 3.5                                | 10.6                               | 1.1                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 2.20   | 27.5   | 2.1   |
|         | 97.0   | 98.0 | 4,550                              | 9,152                | 918                                | 2,799                              | 194                                | 30.5                               | 49.6                               | 2.9                                | 7.9                                | 0.9                                | 1.5                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.77   | 22.6   | 3.7   |
|         | 98.0   | 99.0 | 5,430                              | 11,043               | 1,093                              | 3,348                              | 238                                | 36.9                               | 58.7                               | 3.5                                | 9.4                                | 1.0                                | 1.5                                | 0.1                                | 0.9                                | 0.1                                | 20.3                              | 2.13   | 25.5   | 2.5   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 99.0   | 100.0 | 5,618                              | 11,264               | 1,137                              | 3,488                              | 244                                | 38.0                               | 59.5                               | 3.5                                | 9.9                                | 1.0                                | 1.3                                | 0.2                                | 0.7                                | 0.1                                | 20.3                              | 2.19   | 27     | 2.3   |
|         | 100.0  | 101.0 | 3,249                              | 6,744                | 704                                | 2,280                              | 179                                | 29.3                               | 47.1                               | 3.0                                | 8.0                                | 0.9                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.33   | 22.6   | 5.5   |
|         | 101.0  | 102.0 | 4,304                              | 8,857                | 898                                | 2,764                              | 194                                | 29.0                               | 46.2                               | 2.8                                | 7.4                                | 0.8                                | 1.1                                | 0.2                                | 0.8                                | 0.1                                | 16.5                              | 1.71   | 19.9   | 5     |
|         | 102.0  | 103.0 | 4,891                              | 10,822               | 1,151                              | 3,674                              | 262                                | 40.6                               | 63.4                               | 3.6                                | 10.3                               | 1.0                                | 1.8                                | 0.1                                | 0.8                                | 0.2                                | 21.6                              | 2.09   | 28.5   | 1.7   |
|         | 103.0  | 104.0 | 8,292                              | 17,996               | 1,921                              | 6,124                              | 452                                | 72.1                               | 110.9                              | 6.3                                | 17.3                               | 1.6                                | 2.4                                | 0.2                                | 0.8                                | 0.1                                | 31.8                              | 3.50   | 58.4   | 2.3   |
|         | 104.0  | 105.0 | 10,755                             | 23,401               | 2,477                              | 7,838                              | 565                                | 87.7                               | 134.3                              | 7.5                                | 20.0                               | 2.0                                | 3.0                                | 0.2                                | 0.9                                | 0.1                                | 36.8                              | 4.53   | 65.3   | 1.7   |
|         | 105.0  | 106.0 | 8,292                              | 17,689               | 1,855                              | 5,879                              | 442                                | 69.4                               | 109.4                              | 6.7                                | 17.0                               | 1.8                                | 2.7                                | 0.2                                | 1.1                                | 0.1                                | 35.6                              | 3.44   | 55.7   | 3.5   |
|         | 106.0  | 107.0 | 8,221                              | 16,768               | 1,704                              | 5,272                              | 377                                | 59.2                               | 90.3                               | 5.3                                | 13.9                               | 1.4                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 29.2                              | 3.25   | 42.2   | 2     |
|         | 107.0  | 108.0 | 6,263                              | 12,407               | 1,226                              | 3,674                              | 245                                | 37.9                               | 59.0                               | 3.6                                | 10.0                               | 1.0                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 21.6                              | 2.40   | 25.9   | 1.8   |
|         | 108.0  | 109.0 | 7,389                              | 14,679               | 1,450                              | 4,397                              | 289                                | 45.2                               | 68.7                               | 4.2                                | 10.8                               | 1.2                                | 1.9                                | 0.2                                | 0.7                                | 0.2                                | 24.1                              | 2.84   | 29.5   | 2.5   |
|         | 109.0  | 110.0 | 13,546                             | 24,199               | 2,682                              | 6,917                              | 486                                | 84.5                               | 130.8                              | 8.5                                | 22.7                               | 2.1                                | 2.9                                | 0.2                                | 1.1                                | 0.1                                | 43.2                              | 4.81   | 75.9   | 3.9   |
|         | 110.0  | 111.0 | 14,660                             | 26,165               | 2,876                              | 7,512                              | 529                                | 92.2                               | 151.6                              | 10.1                               | 28.6                               | 2.9                                | 4.5                                | 0.4                                | 1.7                                | 0.2                                | 59.7                              | 5.21   | 84.1   | 2.5   |
|         | 111.0  | 112.0 | 6,380                              | 11,768               | 1,263                              | 3,569                              | 248                                | 42.3                               | 64.6                               | 4.0                                | 11.5                               | 1.1                                | 1.8                                | 0.1                                | 0.7                                | 0.1                                | 22.9                              | 2.34   | 30.2   | 1.8   |
|         | 112.0  | 113.0 | 6,075                              | 11,461               | 1,250                              | 3,569                              | 264                                | 43.9                               | 67.1                               | 4.1                                | 10.4                               | 1.0                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 21.6                              | 2.28   | 31.9   | 3.3   |
|         | 113.0  | 114.0 | 5,712                              | 10,933               | 1,189                              | 3,418                              | 250                                | 43.8                               | 68.4                               | 4.2                                | 12.5                               | 1.3                                | 2.1                                | 0.2                                | 0.9                                | 0.2                                | 29.2                              | 2.17   | 37.2   | 2     |
|         | 114.0  | 115.0 | 4,867                              | 9,483                | 1,040                              | 2,974                              | 205                                | 34.2                               | 52.8                               | 3.4                                | 9.6                                | 1.0                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.87   | 24.8   | 1.6   |
|         | 115.0  | 116.0 | 4,492                              | 8,611                | 938                                | 2,648                              | 188                                | 31.2                               | 49.7                               | 3.2                                | 9.1                                | 0.9                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 21.6                              | 1.70   | 24.7   | 1.5   |
|         | 116.0  | 117.0 | 6,920                              | 12,591               | 1,353                              | 3,826                              | 279                                | 48.9                               | 76.7                               | 4.9                                | 13.8                               | 1.3                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 27.9                              | 2.51   | 40.5   | 1.6   |
|         | 117.0  | 118.0 | 11,282                             | 21,374               | 2,060                              | 6,182                              | 427                                | 67.7                               | 110.1                              | 7.1                                | 18.3                               | 1.8                                | 2.7                                | 0.2                                | 0.8                                | 0.1                                | 36.8                              | 4.16   | 55     | 1.5   |
|         | 118.0  | 119.0 | 6,650                              | 12,235               | 1,317                              | 3,802                              | 262                                | 44.0                               | 68.5                               | 4.5                                | 11.7                               | 1.0                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 2.44   | 32.6   | 1.4   |
|         | 119.0  | 120.0 | 9,500                              | 17,136               | 1,843                              | 5,097                              | 355                                | 61.8                               | 94.6                               | 6.2                                | 17.2                               | 1.6                                | 2.4                                | 0.2                                | 1.1                                | 0.1                                | 35.6                              | 3.42   | 47.6   | 0.7   |
|         | 120.0  | 121.0 | 7,002                              | 14,495               | 1,420                              | 4,316                              | 284                                | 44.7                               | 70.3                               | 4.2                                | 12.2                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 27.9                              | 2.77   | 30.7   | 0.9   |
|         | 121.0  | 122.0 | 15,598                             | 29,727               | 2,876                              | 8,643                              | 602                                | 96.2                               | 153.9                              | 9.6                                | 24.6                               | 2.4                                | 3.3                                | 0.2                                | 1.1                                | 0.2                                | 48.3                              | 5.78   | 74.3   | 0.7   |
|         | 122.0  | 123.0 | 6,685                              | 13,144               | 1,450                              | 4,211                              | 290                                | 47.4                               | 70.5                               | 4.2                                | 11.3                               | 1.1                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.59   | 30.8   | 1     |
|         | 123.0  | 124.0 | 7,799                              | 15,601               | 1,776                              | 5,190                              | 358                                | 57.2                               | 84.5                               | 4.8                                | 12.4                               | 1.3                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 3.09   | 32.8   | 1.6   |
|         | 124.0  | 125.0 | 9,981                              | 17,628               | 1,927                              | 5,237                              | 363                                | 62.8                               | 94.5                               | 5.8                                | 14.4                               | 1.3                                | 1.9                                | 0.1                                | 0.8                                | 0.1                                | 27.9                              | 3.53   | 41.2   | 2.6   |
|         | 125.0  | 126.0 | 6,192                              | 11,633               | 1,250                              | 3,581                              | 255                                | 41.6                               | 62.0                               | 3.8                                | 10.2                               | 1.0                                | 1.7                                | 0.1                                | 0.8                                | 0.2                                | 21.6                              | 2.31   | 27.4   | 1.6   |
|         | 126.0  | 127.0 | 4,984                              | 10,159               | 1,009                              | 3,091                              | 219                                | 34.2                               | 54.5                               | 3.5                                | 9.4                                | 0.9                                | 1.7                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.96   | 25     | 3.4   |
|         | 127.0  | 128.0 | 5,043                              | 9,643                | 1,055                              | 3,044                              | 215                                | 35.6                               | 53.0                               | 3.3                                | 9.4                                | 0.8                                | 1.5                                | 0.2                                | 0.8                                | 0.2                                | 19.1                              | 1.91   | 23.9   | 4.6   |
|         | 128.0  | 129.0 | 6,063                              | 12,063               | 1,389                              | 4,106                              | 299                                | 50.8                               | 76.5                               | 4.6                                | 11.7                               | 1.1                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.41   | 33.9   | 1.7   |
|         | 129.0  | 130.0 | 5,688                              | 11,203               | 1,250                              | 3,628                              | 254                                | 43.8                               | 65.5                               | 3.9                                | 11.0                               | 1.1                                | 2.1                                | 0.1                                | 0.8                                | 0.1                                | 22.9                              | 2.22   | 28.3   | 1.6   |
|         | 130.0  | 131.0 | 5,067                              | 9,901                | 1,107                              | 3,243                              | 233                                | 38.9                               | 58.9                               | 3.5                                | 10.2                               | 1.1                                | 1.6                                | 0.1                                | 0.9                                | 0.1                                | 21.6                              | 1.97   | 27     | 1.8   |
|         | 131.0  | 132.0 | 4,175                              | 8,071                | 887                                | 2,578                              | 183                                | 30.7                               | 47.7                               | 2.9                                | 8.2                                | 0.8                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 16.5                              | 1.60   | 20.6   | 1.2   |
|         | 132.0  | 133.0 | 6,486                              | 12,075               | 1,329                              | 3,837                              | 285                                | 47.5                               | 74.3                               | 4.5                                | 12.6                               | 1.2                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 2.42   | 36.2   | 2.6   |
|         | 133.0  | 134.0 | 3,788                              | 7,309                | 811                                | 2,379                              | 183                                | 30.9                               | 48.9                               | 3.2                                | 9.0                                | 0.9                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 1.46   | 24.8   | 7.8   |
|         | 134.0  | 135.0 | 3,448                              | 6,781                | 760                                | 2,263                              | 167                                | 26.9                               | 42.0                               | 2.5                                | 7.4                                | 0.7                                | 1.7                                | 0.1                                | 0.9                                | 0.1                                | 17.8                              | 1.35   | 20     | 13    |
|         | 135.0  | 136.0 | 3,659                              | 7,039                | 778                                | 2,286                              | 175                                | 30.7                               | 50.0                               | 3.4                                | 10.3                               | 1.1                                | 1.9                                | 0.2                                | 1.3                                | 0.2                                | 24.1                              | 1.41   | 28.2   | 6.3   |
|         | 136.0  | 137.0 | 4,586                              | 9,090                | 1,008                              | 2,951                              | 206                                | 34.0                               | 55.0                               | 3.7                                | 10.4                               | 1.1                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 25.4                              | 1.80   | 25.3   | 5.3   |
|         | 137.0  | 138.0 | 4,949                              | 9,508                | 1,055                              | 3,044                              | 216                                | 36.2                               | 57.5                               | 3.6                                | 10.3                               | 1.1                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 1.89   | 28.5   | 3.1   |
|         | 138.0  | 139.0 | 6,016                              | 11,129               | 1,206                              | 3,418                              | 242                                | 41.8                               | 63.9                               | 4.1                                | 10.4                               | 1.0                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 22.9                              | 2.22   | 31.1   | 2.4   |
|         | 139.0  | 140.0 | 4,574                              | 8,611                | 898                                | 2,659                              | 181                                | 30.0                               | 48.2                               | 2.8                                | 7.6                                | 0.8                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 17.8                              | 1.70   | 21.7   | 0.8   |
|         | 140.0  | 141.0 | 4,468                              | 8,402                | 872                                | 2,589                              | 181                                | 29.4                               | 47.4                               | 2.8                                | 8.0                                | 0.7                                | 1.3                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 1.66   | 20.8   | 1.6   |
|         | 141.0  | 142.0 | 3,999                              | 7,641                | 795                                | 2,379                              | 166                                | 27.8                               | 44.6                               | 2.5                                | 7.2                                | 0.9                                | 1.7                                | 0.2                                | 0.7                                | 0.1                                | 17.8                              | 1.51   | 18.4   | 1     |
|         | 142.0  | 143.0 | 3,917                              | 7,506                | 796                                | 2,379                              | 168                                | 28.6                               | 45.2                               | 2.7                                | 7.4                                | 0.9                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 1.49   | 19.5   | 2.6   |
|         | 143.0  | 144.0 | 7,940                              | 15,724               | 1,740                              | 5,319                              | 369                                | 61.7                               | 98.4                               | 5.8                                | 15.4                               | 1.7                                | 3.0                                | 0.2                                | 0.9                                | 0.2                                | 34.3                              | 3.13   | 48.7   | 5.7   |
|         | 144.0  | 145.0 | 7,869                              | 15,662               | 1,698                              | 5,109                              | 359                                | 62.1                               | 100.2                              | 5.9                                | 18.4                               | 2.0                                | 3.3                                | 0.3                                | 1.5                                | 0.3                                | 38.1                              | 3.09   | 52.2   | 4.3   |

| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 145.0  | 146.0 | 2,721                              | 5,442                | 592                                | 1,849                              | 148                                | 26.5                               | 44.6                               | 2.8                                | 7.8                                | 0.9                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.09   | 27.5   | 15    |
|                 | 146.0  | 147.0 | 2,674                              | 5,552                | 617                                | 1,977                              | 156                                | 27.1                               | 41.4                               | 2.5                                | 6.8                                | 0.8                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 16.5                              | 1.11   | 19.9   | 12.4  |
|                 | 147.0  | 148.0 | 4,328                              | 8,267                | 880                                | 2,718                              | 210                                | 38.0                               | 62.1                               | 3.8                                | 10.9                               | 1.2                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.65   | 34.3   | 11.6  |
|                 | 148.0  | 149.0 | 2,733                              | 5,651                | 613                                | 1,948                              | 164                                | 28.7                               | 44.5                               | 2.7                                | 7.4                                | 0.8                                | 1.1                                | 0.1                                | 0.7                                | 0.1                                | 16.5                              | 1.12   | 23.3   | 9.2   |
|                 | 149.0  | 150.0 | 4,175                              | 8,181                | 884                                | 2,718                              | 200                                | 34.9                               | 55.4                               | 3.4                                | 9.2                                | 1.0                                | 1.7                                | 0.2                                | 0.7                                | 0.1                                | 21.6                              | 1.63   | 28.4   | 4.6   |
|                 | 150.0  | 151.0 | 3,178                              | 6,449                | 709                                | 2,170                              | 154                                | 24.6                               | 39.5                               | 2.4                                | 6.8                                | 0.7                                | 1.4                                | 0.2                                | 0.7                                | 0.1                                | 15.2                              | 1.28   | 16.3   | 0.7   |
|                 | 151.0  | 152.0 | 4,257                              | 8,685                | 969                                | 3,009                              | 220                                | 36.5                               | 58.4                               | 3.6                                | 9.9                                | 1.1                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 21.6                              | 1.73   | 24.8   | 0.9   |
|                 | 152.0  | 153.0 | 4,949                              | 9,729                | 1,045                              | 3,173                              | 226                                | 37.6                               | 62.4                               | 3.8                                | 9.6                                | 1.0                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 20.3                              | 1.93   | 28.7   | 1.2   |
|                 | 153.0  | 154.0 | 5,160                              | 10,331               | 1,128                              | 3,418                              | 233                                | 38.4                               | 59.0                               | 3.6                                | 9.8                                | 1.2                                | 1.8                                | 0.2                                | 0.7                                | 0.1                                | 20.3                              | 2.04   | 26.3   | 1.3   |
|                 | 154.0  | 155.0 | 4,316                              | 8,820                | 981                                | 3,056                              | 219                                | 35.4                               | 55.7                               | 3.5                                | 8.4                                | 0.9                                | 1.4                                | 0.2                                | 0.6                                | 0.1                                | 17.8                              | 1.75   | 24.3   | 3.1   |
|                 | 155.0  | 156.0 | 3,401                              | 6,940                | 765                                | 2,403                              | 183                                | 31.7                               | 51.6                               | 3.2                                | 8.3                                | 1.0                                | 1.5                                | 0.2                                | 0.9                                | 0.2                                | 20.3                              | 1.38   | 25.4   | 2.1   |
|                 | 156.0  | 157.0 | 5,923                              | 11,031               | 1,195                              | 3,639                              | 276                                | 50.3                               | 80.1                               | 5.3                                | 14.5                               | 1.5                                | 2.5                                | 0.2                                | 0.8                                | 0.2                                | 29.2                              | 2.22   | 45.3   | 2.1   |
|                 | 157.0  | 158.0 | 4,433                              | 9,016                | 1,041                              | 3,313                              | 249                                | 43.7                               | 66.0                               | 4.0                                | 10.4                               | 1.0                                | 2.1                                | 0.2                                | 0.8                                | 0.2                                | 22.9                              | 1.82   | 28     | 1.7   |
|                 | 158.0  | 159.0 | 3,565                              | 7,579                | 876                                | 2,823                              | 219                                | 37.9                               | 59.4                               | 3.6                                | 9.8                                | 1.0                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 21.6                              | 1.52   | 26.6   | 1.5   |
|                 | 159.0  | 160.0 | 5,055                              | 10,515               | 1,199                              | 3,814                              | 292                                | 52.2                               | 82.2                               | 4.8                                | 13.5                               | 1.5                                | 2.4                                | 0.2                                | 1.1                                | 0.1                                | 27.9                              | 2.11   | 37.8   | 1.2   |
|                 | 160.0  | 161.0 | 4,820                              | 9,643                | 1,081                              | 3,429                              | 263                                | 46.1                               | 71.8                               | 4.4                                | 11.0                               | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 21.6                              | 1.94   | 30.8   | 2.6   |
|                 | 161.0  | 162.0 | 4,527                              | 9,397                | 1,060                              | 3,336                              | 250                                | 43.7                               | 68.0                               | 4.2                                | 9.9                                | 1.1                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 19.1                              | 1.87   | 29.6   | 2.6   |
|                 | 162.0  | 163.0 | 4,808                              | 10,134               | 1,166                              | 3,663                              | 267                                | 47.0                               | 70.8                               | 4.1                                | 10.1                               | 1.1                                | 1.5                                | 0.1                                | 0.6                                | 0.1                                | 20.3                              | 2.02   | 29.5   | 2.2   |
|                 | 163.0  | 164.0 | 4,703                              | 9,201                | 1,021                              | 3,161                              | 229                                | 40.1                               | 64.0                               | 3.7                                | 10.2                               | 1.0                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 21.6                              | 1.85   | 29     | 2.3   |
|                 | 164.0  | 165.0 | 4,902                              | 10,011               | 1,110                              | 3,418                              | 262                                | 45.0                               | 71.9                               | 4.5                                | 11.0                               | 1.0                                | 1.9                                | 0.1                                | 0.8                                | 0.1                                | 20.3                              | 1.99   | 33     | 1.5   |
|                 | 165.0  | 166.0 | 3,870                              | 7,874                | 859                                | 2,671                              | 199                                | 34.5                               | 57.8                               | 3.6                                | 9.3                                | 0.9                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 20.3                              | 1.56   | 29.6   | 1.3   |
|                 | 166.0  | 167.0 | 2,082                              | 4,778                | 557                                | 1,825                              | 150                                | 27.2                               | 44.1                               | 2.6                                | 6.3                                | 0.7                                | 1.1                                | 0.1                                | 0.7                                | 0.1                                | 14.0                              | 0.95   | 20.8   | 7.1   |
|                 | 167.0  | 168.0 | 2,932                              | 6,670                | 809                                | 2,764                              | 262                                | 46.9                               | 80.2                               | 4.9                                | 14.5                               | 1.4                                | 2.6                                | 0.2                                | 1.4                                | 0.1                                | 33.0                              | 1.36   | 48     | 9.3   |
|                 | 168.0  | 169.0 | 2,258                              | 5,454                | 621                                | 2,257                              | 234                                | 42.4                               | 71.5                               | 4.6                                | 14.0                               | 1.5                                | 2.5                                | 0.2                                | 1.5                                | 0.2                                | 34.3                              | 1.10   | 48.1   | 13.2  |
| <b>KGKRC034</b> | 0.0    | 1.0   | 3,331                              | 7,211                | 776                                | 2,566                              | 197                                | 31.3                               | 53.8                               | 3.6                                | 10.9                               | 1.3                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 1.42   | 31.5   | 9.9   |
|                 | 1.0    | 2.0   | 6,966                              | 14,864               | 1,613                              | 5,132                              | 401                                | 65.3                               | 108.9                              | 7.2                                | 20.2                               | 2.0                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 45.7                              | 2.92   | 73.1   | 7.9   |
|                 | 2.0    | 3.0   | 6,052                              | 12,591               | 1,377                              | 4,269                              | 326                                | 52.9                               | 88.1                               | 5.9                                | 16.6                               | 1.6                                | 3.0                                | 0.3                                | 1.3                                | 0.2                                | 34.3                              | 2.48   | 53.4   | 5.2   |
|                 | 3.0    | 4.0   | 9,500                              | 19,777               | 2,108                              | 6,777                              | 497                                | 80.5                               | 134.3                              | 9.0                                | 23.3                               | 2.1                                | 3.0                                | 0.3                                | 1.3                                | 0.2                                | 45.7                              | 3.90   | 88.8   | 2.2   |
|                 | 4.0    | 5.0   | 7,482                              | 15,908               | 1,716                              | 5,354                              | 409                                | 65.5                               | 110.3                              | 7.6                                | 19.3                               | 1.8                                | 3.1                                | 0.3                                | 1.4                                | 0.2                                | 40.6                              | 3.11   | 83.8   | 2.6   |
|                 | 5.0    | 6.0   | 8,350                              | 17,812               | 1,927                              | 6,077                              | 462                                | 75.4                               | 127.4                              | 9.1                                | 24.5                               | 2.4                                | 4.1                                | 0.4                                | 2.1                                | 0.3                                | 58.4                              | 3.49   | 93.8   | 6.9   |
|                 | 6.0    | 7.0   | 4,433                              | 9,090                | 929                                | 2,916                              | 201                                | 32.0                               | 52.6                               | 3.6                                | 10.2                               | 1.0                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 1.77   | 30.9   | 10.3  |
|                 | 7.0    | 8.0   | 7,869                              | 14,557               | 1,426                              | 4,222                              | 296                                | 48.6                               | 85.0                               | 6.5                                | 18.9                               | 1.8                                | 3.0                                | 0.2                                | 1.5                                | 0.1                                | 44.5                              | 2.86   | 54     | 7.3   |
|                 | 8.0    | 9.0   | 4,738                              | 10,073               | 1,057                              | 3,406                              | 242                                | 36.8                               | 57.5                               | 3.7                                | 10.2                               | 1.0                                | 1.9                                | 0.1                                | 0.9                                | 0.1                                | 24.1                              | 1.97   | 28.2   | 11.2  |
|                 | 9.0    | 10.0  | 5,782                              | 12,960               | 1,444                              | 4,724                              | 356                                | 54.8                               | 89.6                               | 5.8                                | 16.1                               | 1.5                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 34.3                              | 2.55   | 58.3   | 10.1  |
|                 | 10.0   | 11.0  | 4,504                              | 9,668                | 1,029                              | 3,348                              | 239                                | 36.7                               | 56.7                               | 3.6                                | 10.6                               | 1.2                                | 1.9                                | 0.2                                | 1.3                                | 0.2                                | 24.1                              | 1.89   | 30.4   | 10.4  |
|                 | 11.0   | 12.0  | 5,008                              | 10,589               | 1,118                              | 3,604                              | 260                                | 39.3                               | 63.6                               | 4.2                                | 12.7                               | 1.3                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 2.07   | 37.5   | 9.7   |
|                 | 12.0   | 13.0  | 7,459                              | 13,082               | 1,208                              | 3,569                              | 240                                | 38.4                               | 68.6                               | 5.6                                | 17.6                               | 1.8                                | 3.2                                | 0.3                                | 1.5                                | 0.2                                | 47.0                              | 2.57   | 42.4   | 7.6   |
|                 | 13.0   | 14.0  | 13,663                             | 22,357               | 1,951                              | 5,400                              | 341                                | 56.3                               | 98.8                               | 7.3                                | 24.1                               | 2.4                                | 3.5                                | 0.3                                | 1.5                                | 0.2                                | 52.1                              | 4.40   | 57.6   | 5.8   |
|                 | 14.0   | 15.0  | 5,489                              | 10,196               | 982                                | 2,904                              | 187                                | 29.6                               | 50.5                               | 3.7                                | 11.0                               | 1.1                                | 2.1                                | 0.2                                | 0.9                                | 0.2                                | 26.7                              | 1.99   | 38.2   | 14.7  |
|                 | 15.0   | 16.0  | 6,380                              | 11,731               | 1,107                              | 3,254                              | 200                                | 30.3                               | 50.4                               | 3.4                                | 10.2                               | 1.0                                | 1.8                                | 0.2                                | 0.8                                | 0.2                                | 24.1                              | 2.28   | 36.4   | 14.9  |
|                 | 16.0   | 17.0  | 16,595                             | 28,622               | 2,682                              | 7,710                              | 451                                | 68.4                               | 111.5                              | 7.8                                | 21.4                               | 2.0                                | 3.1                                | 0.3                                | 1.1                                | 0.1                                | 45.7                              | 5.63   | 64.2   | 9.3   |
|                 | 17.0   | 18.0  | 4,304                              | 8,095                | 788                                | 2,333                              | 135                                | 19.8                               | 32.0                               | 2.2                                | 6.3                                | 0.8                                | 1.5                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.57   | 25     | 15.7  |
|                 | 18.0   | 19.0  | 9,066                              | 15,232               | 1,402                              | 3,931                              | 256                                | 40.5                               | 71.7                               | 5.5                                | 16.0                               | 1.7                                | 2.6                                | 0.3                                | 1.4                                | 0.2                                | 39.4                              | 3.01   | 40.7   | 9.7   |
|                 | 19.0   | 20.0  | 14,015                             | 23,278               | 2,132                              | 5,809                              | 369                                | 60.8                               | 105.0                              | 8.0                                | 23.0                               | 2.3                                | 3.7                                | 0.3                                | 1.4                                | 0.2                                | 50.8                              | 4.59   | 53.7   | 8.9   |
|                 | 20.0   | 21.0  | 6,697                              | 11,264               | 996                                | 2,811                              | 180                                | 29.6                               | 53.9                               | 4.3                                | 13.5                               | 1.4                                | 2.5                                | 0.2                                | 1.0                                | 0.2                                | 30.5                              | 2.21   | 49.4   | 16.7  |
|                 | 21.0   | 22.0  | 8,491                              | 14,372               | 1,347                              | 3,779                              | 266                                | 46.8                               | 90.5                               | 8.0                                | 29.3                               | 3.8                                | 8.4                                | 0.8                                | 5.0                                | 0.7                                | 105.4                             | 2.86   | 66.9   | 27.8  |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |    |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|----|
|         | 22.0   | 23.0 | 9,089                              | 14,925               | 1,299                              | 3,651                              | 241                                | 41.8                               | 78.7                               | 6.3                                | 24.1                               | 3.1                                | 6.8                                | 0.7                                | 4.3                                | 0.6                                | 83.8                              | 2.95   | 67.3   | 24.3  |    |
|         | 23.0   | 24.0 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 24.0   | 25.0 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 25.0   | 26.0 | 11,576                             | 19,040               | 1,746                              | 4,771                              | 295                                | 48.9                               | 92.8                               | 8.5                                | 33.2                               | 4.5                                | 10.2                               | 1.2                                | 6.6                                | 1.0                                | 130.8                             | 3.78   | 53.1   | 10.9  |    |
|         | 26.0   | 27.0 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 27.0   | 28.0 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 28.0   | 29.0 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 29.0   | 30.0 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 30.0   | 31.0 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 31.0   | 32.0 | 1,806                              | 3,378                | 335                                | 1,085                              | 99                                 | 19.3                               | 39.9                               | 3.7                                | 13.8                               | 1.8                                | 4.5                                | 0.5                                | 3.4                                | 0.5                                | 49.5                              | 0.68   | 32.6   | 23.9  |    |
|         | 32.0   | 33.0 | 1,953                              | 3,526                | 333                                | 1,031                              | 82                                 | 14.6                               | 28.5                               | 2.5                                | 9.5                                | 1.3                                | 3.1                                | 0.4                                | 2.5                                | 0.4                                | 34.3                              | 0.70   | 26.2   | 20.5  |    |
|         | 33.0   | 34.0 | 1,572                              | 3,292                | 348                                | 1,201                              | 128                                | 27.2                               | 61.0                               | 6.2                                | 24.7                               | 3.3                                | 7.4                                | 0.8                                | 4.2                                | 0.5                                | 87.6                              | 0.68   | 25.7   | 14.8  |    |
|         | 34.0   | 35.0 | 4,433                              | 8,304                | 807                                | 2,484                              | 180                                | 31.6                               | 59.9                               | 5.0                                | 17.9                               | 2.3                                | 4.8                                | 0.6                                | 3.3                                | 0.5                                | 61.0                              | 1.64   | 33.8   | 14.4  |    |
|         | 35.0   | 36.0 | 14,074                             | 26,533               | 2,622                              | 8,025                              | 495                                | 76.9                               | 124.5                              | 8.5                                | 24.6                               | 2.6                                | 4.6                                | 0.4                                | 1.8                                | 0.3                                | 63.5                              | 5.21   | 52.9   | 9.8   |    |
|         | 36.0   | 37.0 | 8,010                              | 15,171               | 1,474                              | 4,234                              | 293                                | 46.4                               | 87.6                               | 6.7                                | 23.2                               | 2.4                                | 4.1                                | 0.4                                | 1.9                                | 0.3                                | 57.2                              | 2.94   | 55.7   | 7.8   |    |
|         | 37.0   | 38.0 | 2,979                              | 5,737                | 571                                | 1,785                              | 149                                | 27.6                               | 47.8                               | 3.5                                | 14.4                               | 1.8                                | 3.2                                | 0.3                                | 1.4                                | 0.3                                | 41.9                              | 1.14   | 32.3   | 5.9   |    |
|         | 38.0   | 39.0 | 5,606                              | 10,871               | 1,074                              | 3,313                              | 244                                | 41.8                               | 69.5                               | 4.0                                | 17.0                               | 1.9                                | 3.2                                | 0.3                                | 1.7                                | 0.3                                | 43.2                              | 2.13   | 40.5   | 8     |    |
|         | 39.0   | 40.0 | 3,413                              | 6,584                | 639                                | 1,895                              | 122                                | 19.6                               | 32.3                               | 1.7                                | 6.9                                | 1.0                                | 1.6                                | 0.3                                | 1.1                                | 0.3                                | 17.8                              | 1.27   | 14     | 9.6   |    |
|         | 40.0   | 41.0 | 4,750                              | 9,053                | 863                                | 2,543                              | 169                                | 27.1                               | 42.7                               | 2.1                                | 8.4                                | 1.0                                | 1.8                                | 0.2                                | 1.0                                | 0.2                                | 22.9                              | 1.75   | 16     | 9.2   |    |
|         | 41.0   | 42.0 | 5,782                              | 11,142               | 1,106                              | 3,324                              | 228                                | 36.9                               | 58.0                               | 3.0                                | 11.1                               | 1.4                                | 2.4                                | 0.3                                | 1.1                                | 0.3                                | 27.9                              | 2.17   | 21.2   | 7.8   |    |
|         | 42.0   | 43.0 | 5,758                              | 11,056               | 1,070                              | 3,219                              | 214                                | 35.1                               | 55.3                               | 2.9                                | 11.1                               | 1.2                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 26.7                              | 2.15   | 22     | 8.3   |    |
|         | 43.0   | 44.0 | 3,988                              | 7,972                | 789                                | 2,426                              | 164                                | 27.0                               | 43.3                               | 2.2                                | 9.1                                | 1.0                                | 1.9                                | 0.2                                | 1.1                                | 0.2                                | 24.1                              | 1.54   | 20.1   | 9.1   |    |
|         | 44.0   | 45.0 | 3,272                              | 6,953                | 707                                | 2,239                              | 161                                | 25.1                               | 42.2                               | 2.7                                | 8.3                                | 0.9                                | 1.6                                | 0.2                                | 1.0                                | 0.2                                | 21.6                              | 1.34   | 19.2   | 8.7   |    |
|         | 45.0   | 46.0 | 4,140                              | 7,911                | 761                                | 2,269                              | 152                                | 24.6                               | 40.0                               | 2.4                                | 9.6                                | 1.1                                | 1.8                                | 0.2                                | 1.1                                | 0.2                                | 25.4                              | 1.53   | 20     | 7.7   |    |
|         | 46.0   | 47.0 | 3,530                              | 7,346                | 752                                | 2,356                              | 177                                | 29.5                               | 51.2                               | 2.8                                | 12.4                               | 1.4                                | 2.6                                | 0.3                                | 1.7                                | 0.3                                | 35.6                              | 1.43   | 30.3   | 12.4  |    |
|         | 47.0   | 48.0 | 3,401                              | 7,223                | 748                                | 2,379                              | 179                                | 29.6                               | 50.1                               | 2.6                                | 10.1                               | 1.2                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 29.2                              | 1.41   | 23.9   | 10    |    |
|         | 48.0   | 49.0 | 3,905                              | 8,550                | 900                                | 2,916                              | 228                                | 39.1                               | 63.7                               | 3.4                                | 13.8                               | 1.6                                | 3.0                                | 0.4                                | 1.8                                | 0.3                                | 36.8                              | 1.67   | 29.1   | 8.7   |    |
|         | 49.0   | 50.0 | 3,812                              | 8,402                | 910                                | 2,998                              | 242                                | 41.3                               | 70.4                               | 4.2                                | 15.4                               | 1.9                                | 3.4                                | 0.3                                | 1.9                                | 0.2                                | 43.2                              | 1.65   | 28.3   | 8.6   |    |
|         | 50.0   | 51.0 | 4,058                              | 9,053                | 986                                | 3,266                              | 268                                | 44.5                               | 76.5                               | 4.3                                | 15.8                               | 1.9                                | 3.5                                | 0.3                                | 1.7                                | 0.3                                | 41.9                              | 1.78   | 31.9   | 8.3   |    |
|         | 51.0   | 52.0 | 5,149                              | 11,387               | 1,220                              | 3,989                              | 324                                | 54.5                               | 89.8                               | 4.4                                | 17.7                               | 2.0                                | 3.4                                | 0.4                                | 1.8                                | 0.3                                | 45.7                              | 2.23   | 40.6   | 8.9   |    |
|         | 52.0   | 53.0 | 4,715                              | 10,626               | 1,166                              | 3,919                              | 332                                | 56.9                               | 95.8                               | 5.5                                | 20.9                               | 2.4                                | 4.5                                | 0.4                                | 2.3                                | 0.3                                | 53.3                              | 2.10   | 54.5   | 6.9   |    |
|         | 53.0   | 54.0 | 4,715                              | 10,724               | 1,179                              | 3,896                              | 332                                | 55.8                               | 92.1                               | 5.0                                | 18.8                               | 2.3                                | 4.2                                | 0.4                                | 2.1                                | 0.3                                | 52.1                              | 2.11   | 50.3   | 6.8   |    |
|         | 54.0   | 55.0 | 3,061                              | 6,940                | 750                                | 2,496                              | 212                                | 36.8                               | 64.3                               | 3.9                                | 14.5                               | 1.9                                | 3.8                                | 0.5                                | 2.6                                | 0.4                                | 48.3                              | 1.36   | 32.3   | 8.1   |    |
|         | 55.0   | 56.0 | 3,120                              | 7,002                | 760                                | 2,543                              | 226                                | 39.3                               | 70.0                               | 4.6                                | 17.5                               | 2.2                                | 4.8                                | 0.5                                | 3.0                                | 0.4                                | 58.4                              | 1.39   | 39.2   | 7.5   |    |
|         | 56.0   | 57.0 | 3,870                              | 8,734                | 961                                | 3,219                              | 279                                | 48.3                               | 82.4                               | 5.4                                | 24.0                               | 3.6                                | 7.9                                | 0.9                                | 4.8                                | 0.6                                | 95.2                              | 1.73   | 49.9   | 8.5   |    |
|         | 57.0   | 58.0 | 1,865                              | 4,189                | 465                                | 1,598                              | 168                                | 35.8                               | 75.4                               | 8.5                                | 49.8                               | 9.1                                | 25.2                               | 2.9                                | 14.6                               | 1.8                                | 293.4                             | 0.88   | 49.6   | 13.7  |    |
|         | 58.0   | 59.0 | 3,612                              | 8,120                | 886                                | 2,963                              | 253                                | 44.6                               | 78.0                               | 4.8                                | 17.9                               | 2.3                                | 4.1                                | 0.5                                | 2.6                                | 0.4                                | 53.3                              | 1.60   | 43.3   | 7.7   |    |
|         | 59.0   | 60.0 | 1,448                              | 3,317                | 377                                | 1,295                              | 121                                | 22.5                               | 44.7                               | 3.9                                | 16.1                               | 2.4                                | 4.5                                | 0.7                                | 3.5                                | 0.6                                | 63.5                              | 0.67   | 32.2   | 8.2   |    |
|         | 60.0   | 61.0 | 2,568                              | 5,958                | 663                                | 2,245                              | 204                                | 35.1                               | 62.5                               | 3.9                                | 14.5                               | 1.8                                | 3.4                                | 0.4                                | 2.2                                | 0.3                                | 44.5                              | 1.18   | 35.7   | 8.2   |    |
|         | 61.0   | 62.0 | 2,662                              | 6,142                | 687                                | 2,344                              | 210                                | 39.3                               | 70.4                               | 4.7                                | 17.5                               | 2.2                                | 4.1                                | 0.5                                | 2.4                                | 0.4                                | 53.3                              | 1.22   | 44     | 10    |    |
|         | 62.0   | 63.0 | 3,049                              | 6,965                | 747                                | 2,414                              | 188                                | 30.5                               | 50.1                               | 2.9                                | 10.6                               | 1.3                                | 2.2                                | 0.2                                | 1.5                                | 0.2                                | 31.8                              | 1.35   | 31.9   | 9.7   |    |
|         | 63.0   | 64.0 | 3,706                              | 8,034                | 860                                | 2,834                              | 253                                | 47.6                               | 88.3                               | 6.5                                | 26.2                               | 3.8                                | 8.0                                | 0.9                                | 4.6                                | 0.7                                | 94.0                              | 1.60   | 55.1   | 7.7   |    |
|         | 64.0   | 65.0 | 2,780                              | 6,216                | 684                                | 2,327                              | 212                                | 38.3                               | 67.0                               | 4.1                                | 15.0                               | 1.8                                | 3.5                                | 0.4                                | 2.3                                | 0.3                                | 49.5                              | 1.24   | 45.7   | 7.9   |    |
|         | 65.0   | 66.0 | 2,791                              | 6,400                | 710                                | 2,438                              | 230                                | 41.2                               | 74.8                               | 5.0                                | 20.0                               | 2.6                                | 5.0                                | 0.6                                | 3.2                                | 0.5                                | 68.6                              | 1.28   | 47.6   | 8     |    |
|         | 66.0   | 67.0 | 2,580                              | 5,958                | 673                                | 2,321                              | 224                                | 42.0                               | 77.0                               | 5.4                                | 20.9                               | 2.9                                | 5.4                                | 0.7                                | 3.5                                | 0.6                                | 72.4                              | 1.20   | 51.6   | 8.1   |    |
|         | 67.0   | 68.0 | 2,557                              | 5,859                | 672                                | 2,403                              | 248                                | 45.6                               | 87.5                               | 7.4                                | 26.1                               | 3.0                                | 6.0                                | 0.6                                | 3.9                                | 0.6                                | 76.2                              | 1.20   | 70.3   | 9     |    |



| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 68.0   | 69.0  | 2,381                              | 5,208                | 571                                | 1,989                              | 211                                | 41.0                               | 82.8                               | 8.3                                | 32.5                               | 4.4                                | 9.8                                | 1.1                                | 7.3                                | 1.1                                | 115.6                             | 1.07   | 66.5   | 8.5   |
|         | 69.0   | 70.0  | 2,885                              | 6,375                | 708                                | 2,438                              | 246                                | 46.9                               | 90.1                               | 7.7                                | 28.9                               | 3.8                                | 8.4                                | 0.8                                | 4.8                                | 0.6                                | 99.1                              | 1.29   | 57.2   | 8.9   |
|         | 70.0   | 71.0  | 2,463                              | 5,454                | 616                                | 2,140                              | 210                                | 40.5                               | 77.5                               | 6.6                                | 24.6                               | 3.3                                | 7.1                                | 0.7                                | 4.1                                | 0.6                                | 85.1                              | 1.11   | 49.2   | 7.5   |
|         | 71.0   | 72.0  | 2,393                              | 5,221                | 570                                | 1,977                              | 206                                | 39.8                               | 78.5                               | 7.3                                | 28.9                               | 3.8                                | 8.9                                | 0.9                                | 5.7                                | 0.8                                | 109.2                             | 1.07   | 59     | 7.9   |
|         | 72.0   | 73.0  | 2,269                              | 4,963                | 546                                | 1,890                              | 206                                | 43.5                               | 88.6                               | 8.8                                | 36.7                               | 5.3                                | 12.7                               | 1.4                                | 7.5                                | 1.1                                | 146.0                             | 1.02   | 69.6   | 8.9   |
|         | 73.0   | 74.0  | 3,084                              | 7,260                | 762                                | 2,776                              | 254                                | 42.8                               | 82.9                               | 6.0                                | 20.4                               | 2.7                                | 5.4                                | 0.6                                | 3.4                                | 0.4                                | 64.8                              | 1.44   | 53.8   | 6.6   |
|         | 74.0   | 75.0  | 3,155                              | 7,076                | 793                                | 2,718                              | 253                                | 43.3                               | 77.2                               | 5.9                                | 19.7                               | 2.5                                | 5.3                                | 0.6                                | 3.0                                | 0.5                                | 61.0                              | 1.42   | 45.7   | 6.8   |
|         | 75.0   | 76.0  | 2,369                              | 5,466                | 616                                | 2,210                              | 241                                | 45.7                               | 88.4                               | 7.6                                | 28.1                               | 3.9                                | 8.4                                | 0.9                                | 5.4                                | 0.7                                | 102.9                             | 1.12   | 60.2   | 7.8   |
|         | 76.0   | 77.0  | 2,826                              | 6,523                | 724                                | 2,519                              | 229                                | 39.3                               | 69.5                               | 5.3                                | 16.9                               | 1.8                                | 3.5                                | 0.3                                | 1.9                                | 0.3                                | 43.2                              | 1.30   | 49.9   | 6.3   |
|         | 77.0   | 78.0  | 1,976                              | 4,631                | 522                                | 1,837                              | 189                                | 35.4                               | 69.3                               | 5.9                                | 20.7                               | 2.4                                | 5.4                                | 0.6                                | 4.0                                | 0.5                                | 64.8                              | 0.94   | 60.2   | 8.2   |
|         | 78.0   | 79.0  | 1,941                              | 4,385                | 483                                | 1,674                              | 165                                | 31.0                               | 61.0                               | 5.6                                | 23.0                               | 3.1                                | 6.8                                | 0.7                                | 4.6                                | 0.6                                | 85.1                              | 0.89   | 36.9   | 7.1   |
|         | 79.0   | 80.0  | 2,146                              | 4,864                | 551                                | 1,977                              | 217                                | 44.1                               | 89.1                               | 7.8                                | 27.4                               | 3.5                                | 7.6                                | 0.8                                | 4.8                                | 0.7                                | 90.2                              | 1.00   | 61.5   | 6.5   |
|         | 80.0   | 81.0  | 1,970                              | 4,668                | 528                                | 1,884                              | 198                                | 38.9                               | 75.7                               | 6.5                                | 24.8                               | 3.2                                | 6.5                                | 0.8                                | 5.0                                | 0.7                                | 81.3                              | 0.95   | 43.9   | 6.3   |
|         | 81.0   | 82.0  | 2,651                              | 6,093                | 678                                | 2,356                              | 218                                | 39.4                               | 70.4                               | 5.4                                | 19.4                               | 2.5                                | 5.3                                | 0.7                                | 3.3                                | 0.6                                | 62.2                              | 1.22   | 37.4   | 5.7   |
|         | 82.0   | 83.0  | 3,800                              | 8,378                | 890                                | 2,963                              | 263                                | 46.4                               | 81.3                               | 6.5                                | 20.9                               | 2.5                                | 5.3                                | 0.5                                | 2.7                                | 0.4                                | 62.2                              | 1.65   | 49.9   | 5.8   |
|         | 83.0   | 84.0  | 4,105                              | 9,176                | 976                                | 3,219                              | 263                                | 44.9                               | 75.4                               | 5.3                                | 17.5                               | 2.0                                | 4.1                                | 0.4                                | 1.8                                | 0.2                                | 47.0                              | 1.79   | 42.9   | 5.7   |
|         | 84.0   | 85.0  | 3,084                              | 6,977                | 767                                | 2,601                              | 226                                | 38.2                               | 67.5                               | 5.0                                | 15.5                               | 1.7                                | 3.5                                | 0.4                                | 2.1                                | 0.3                                | 40.6                              | 1.38   | 42.3   | 5.7   |
|         | 85.0   | 86.0  | 3,999                              | 8,771                | 928                                | 3,044                              | 250                                | 43.2                               | 75.4                               | 5.3                                | 16.5                               | 1.9                                | 3.4                                | 0.4                                | 1.8                                | 0.3                                | 40.6                              | 1.72   | 50.4   | 8.4   |
|         | 86.0   | 87.0  | 2,451                              | 5,663                | 629                                | 2,158                              | 199                                | 34.6                               | 62.5                               | 4.7                                | 16.1                               | 2.0                                | 4.1                                | 0.4                                | 2.5                                | 0.4                                | 48.3                              | 1.13   | 41.3   | 5.3   |
|         | 87.0   | 88.0  | 2,264                              | 5,159                | 569                                | 1,960                              | 177                                | 31.4                               | 55.6                               | 4.3                                | 14.1                               | 1.8                                | 3.3                                | 0.4                                | 2.3                                | 0.3                                | 43.2                              | 1.03   | 37.2   | 4.8   |
|         | 88.0   | 89.0  | 2,222                              | 5,086                | 567                                | 1,983                              | 199                                | 37.8                               | 69.9                               | 6.0                                | 21.9                               | 2.8                                | 6.5                                | 0.7                                | 3.8                                | 0.6                                | 72.4                              | 1.03   | 41.1   | 6.8   |
|         | 89.0   | 90.0  | 2,234                              | 5,135                | 536                                | 1,971                              | 194                                | 34.0                               | 70.3                               | 5.7                                | 20.9                               | 2.6                                | 5.6                                | 0.7                                | 3.8                                | 0.5                                | 72.4                              | 1.03   | 47.3   | 7.1   |
|         | 90.0   | 91.0  | 2,674                              | 6,167                | 700                                | 2,414                              | 227                                | 41.1                               | 74.3                               | 5.8                                | 18.8                               | 2.3                                | 4.6                                | 0.5                                | 3.1                                | 0.4                                | 54.6                              | 1.24   | 49.7   | 7.1   |
|         | 91.0   | 92.0  | 2,369                              | 5,307                | 582                                | 2,006                              | 178                                | 30.5                               | 53.4                               | 3.6                                | 10.9                               | 1.1                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 25.4                              | 1.06   | 26.8   | 7.2   |
|         | 92.0   | 93.0  | 2,252                              | 5,122                | 568                                | 1,971                              | 184                                | 33.7                               | 58.2                               | 4.3                                | 13.3                               | 1.4                                | 2.9                                | 0.3                                | 1.7                                | 0.3                                | 33.0                              | 1.02   | 39     | 10.1  |
|         | 93.0   | 94.0  | 2,463                              | 5,454                | 582                                | 1,913                              | 152                                | 26.6                               | 43.0                               | 2.9                                | 8.2                                | 0.9                                | 1.6                                | 0.2                                | 1.0                                | 0.1                                | 19.1                              | 1.07   | 22.4   | 8     |
|         | 94.0   | 95.0  | 2,082                              | 4,643                | 495                                | 1,650                              | 141                                | 24.7                               | 44.8                               | 3.4                                | 10.8                               | 1.3                                | 2.3                                | 0.3                                | 1.5                                | 0.2                                | 30.5                              | 0.91   | 30.7   | 7.4   |
|         | 95.0   | 96.0  | 3,507                              | 7,678                | 814                                | 2,659                              | 206                                | 35.3                               | 59.0                               | 3.9                                | 11.1                               | 1.1                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 24.1                              | 1.50   | 28.9   | 6.5   |
|         | 96.0   | 97.0  | 2,439                              | 5,589                | 559                                | 1,954                              | 170                                | 30.8                               | 66.7                               | 7.5                                | 39.8                               | 6.5                                | 18.5                               | 2.2                                | 12.8                               | 1.5                                | 210.8                             | 1.11   | 56.1   | 11.8  |
|         | 97.0   | 98.0  | 1,794                              | 4,017                | 471                                | 1,633                              | 161                                | 33.7                               | 72.5                               | 8.1                                | 40.7                               | 6.5                                | 15.4                               | 1.9                                | 11.6                               | 1.7                                | 198.1                             | 0.85   | 52     | 13.4  |
|         | 98.0   | 99.0  | 1,020                              | 2,322                | 288                                | 1,060                              | 118                                | 25.4                               | 59.7                               | 8.0                                | 44.7                               | 7.6                                | 19.3                               | 2.4                                | 14.5                               | 2.0                                | 243.8                             | 0.52   | 58.4   | 15.9  |
|         | 99.0   | 100.0 | 1,290                              | 2,997                | 367                                | 1,330                              | 159                                | 37.2                               | 81.8                               | 8.4                                | 40.2                               | 6.3                                | 16.1                               | 2.3                                | 15.1                               | 2.3                                | 190.5                             | 0.65   | 50.5   | 17.8  |
|         | 100.0  | 101.0 | 1,425                              | 3,169                | 372                                | 1,306                              | 143                                | 32.4                               | 72.5                               | 6.9                                | 31.1                               | 4.7                                | 10.6                               | 1.3                                | 7.3                                | 0.9                                | 132.1                             | 0.67   | 40.7   | 13.6  |
|         | 101.0  | 102.0 | 1,372                              | 2,985                | 348                                | 1,201                              | 122                                | 26.6                               | 57.1                               | 5.5                                | 21.6                               | 3.2                                | 7.1                                | 0.8                                | 4.4                                | 0.6                                | 87.6                              | 0.62   | 32.2   | 14    |
|         | 102.0  | 103.0 | 1,988                              | 4,177                | 464                                | 1,540                              | 139                                | 27.8                               | 56.6                               | 5.0                                | 19.9                               | 2.8                                | 6.6                                | 0.8                                | 4.4                                | 0.6                                | 87.6                              | 0.85   | 30.2   | 9.9   |
|         | 103.0  | 104.0 | 3,753                              | 7,653                | 843                                | 2,706                              | 207                                | 36.9                               | 64.3                               | 4.8                                | 15.7                               | 1.8                                | 3.5                                | 0.4                                | 2.1                                | 0.3                                | 47.0                              | 1.53   | 35.8   | 6.8   |
|         | 104.0  | 105.0 | 9,535                              | 18,426               | 1,963                              | 6,030                              | 466                                | 84.6                               | 147.0                              | 10.3                               | 30.9                               | 3.3                                | 5.7                                | 0.6                                | 2.6                                | 0.4                                | 82.5                              | 3.68   | 108    | 5.9   |
|         | 105.0  | 106.0 | 5,289                              | 11,056               | 1,263                              | 4,141                              | 308                                | 50.8                               | 84.6                               | 6.1                                | 19.4                               | 2.5                                | 4.6                                | 0.5                                | 2.6                                | 0.3                                | 66.0                              | 2.23   | 54.9   | 7.1   |
|         | 106.0  | 107.0 | 4,937                              | 10,601               | 1,238                              | 4,129                              | 318                                | 52.7                               | 89.4                               | 7.0                                | 27.2                               | 3.9                                | 9.5                                | 1.1                                | 6.2                                | 0.8                                | 119.4                             | 2.15   | 57.9   | 7.6   |
|         | 107.0  | 108.0 | 3,518                              | 7,678                | 899                                | 3,021                              | 249                                | 44.4                               | 86.3                               | 8.5                                | 41.1                               | 6.6                                | 16.7                               | 1.9                                | 10.4                               | 1.4                                | 210.8                             | 1.58   | 72.5   | 11.4  |
|         | 108.0  | 109.0 | 3,730                              | 7,592                | 874                                | 2,951                              | 252                                | 48.3                               | 94.7                               | 7.7                                | 24.1                               | 2.6                                | 4.9                                | 0.5                                | 3.2                                | 0.5                                | 68.6                              | 1.57   | 126    | 11.8  |
|         | 109.0  | 110.0 | 2,744                              | 5,847                | 678                                | 2,304                              | 209                                | 45.9                               | 108.9                              | 16.2                               | 94.5                               | 16.4                               | 38.8                               | 4.5                                | 26.7                               | 3.4                                | 537.2                             | 1.27   | 114    | 19.6  |
|         | 110.0  | 111.0 | 2,686                              | 5,773                | 680                                | 2,292                              | 201                                | 38.7                               | 78.0                               | 8.6                                | 45.8                               | 7.8                                | 20.1                               | 2.5                                | 16.5                               | 2.4                                | 250.2                             | 1.21   | 62     | 20.5  |
|         | 111.0  | 112.0 | 4,879                              | 10,282               | 1,156                              | 3,837                              | 295                                | 46.6                               | 74.1                               | 4.6                                | 13.2                               | 1.5                                | 2.7                                | 0.3                                | 1.8                                | 0.2                                | 33.0                              | 2.06   | 44.1   | 13    |
|         | 112.0  | 113.0 | 4,269                              | 9,016                | 1,039                              | 3,488                              | 274                                | 45.0                               | 74.6                               | 4.7                                | 13.9                               | 1.6                                | 3.0                                | 0.3                                | 1.9                                | 0.3                                | 39.4                              | 1.83   | 44.2   | 7.9   |
|         | 113.0  | 114.0 | 3,976                              | 8,365                | 962                                | 3,196                              | 247                                | 39.7                               | 60.7                               | 3.8                                | 10.2                               | 1.1                                | 2.1                                | 0.2                                | 1.1                                | 0.1                                | 26.7                              | 1.69   | 31.1   | 8.3   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 114.0  | 115.0 | 3,882                              | 8,132                | 928                                | 3,079                              | 240                                | 41.3                               | 68.1                               | 5.0                                | 14.9                               | 1.5                                | 2.7                                | 0.2                                | 1.6                                | 0.2                                | 38.1                              | 1.64   | 55.3   | 10.8  |
|         | 115.0  | 116.0 | 3,460                              | 7,493                | 883                                | 3,009                              | 238                                | 39.5                               | 64.8                               | 4.5                                | 13.9                               | 1.6                                | 3.3                                | 0.3                                | 2.3                                | 0.4                                | 43.2                              | 1.53   | 43.9   | 11    |
|         | 116.0  | 117.0 | 3,776                              | 7,997                | 923                                | 3,091                              | 241                                | 40.1                               | 67.5                               | 4.6                                | 14.1                               | 1.5                                | 2.9                                | 0.3                                | 1.7                                | 0.2                                | 36.8                              | 1.62   | 46.1   | 8.8   |
|         | 117.0  | 118.0 | 5,454                              | 11,436               | 1,317                              | 4,362                              | 335                                | 55.0                               | 91.5                               | 6.3                                | 18.6                               | 2.0                                | 3.4                                | 0.3                                | 1.6                                | 0.3                                | 45.7                              | 2.31   | 67.9   | 7.6   |
|         | 118.0  | 119.0 | 4,058                              | 8,918                | 1,041                              | 3,453                              | 266                                | 43.8                               | 69.4                               | 4.2                                | 12.9                               | 1.3                                | 2.2                                | 0.2                                | 1.3                                | 0.1                                | 30.5                              | 1.79   | 42.4   | 8.1   |
|         | 119.0  | 120.0 | 3,835                              | 8,587                | 1,017                              | 3,464                              | 284                                | 49.6                               | 88.6                               | 6.6                                | 18.5                               | 1.9                                | 3.2                                | 0.3                                | 1.9                                | 0.3                                | 45.7                              | 1.74   | 85.3   | 7.2   |
|         | 120.0  | 121.0 | 4,046                              | 8,476                | 986                                | 3,324                              | 288                                | 49.9                               | 83.5                               | 5.5                                | 15.6                               | 1.7                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 35.6                              | 1.73   | 69.4   | 8.9   |
|         | 121.0  | 122.0 | 3,049                              | 6,400                | 737                                | 2,473                              | 212                                | 38.4                               | 71.7                               | 5.8                                | 18.6                               | 2.0                                | 4.1                                | 0.4                                | 2.1                                | 0.2                                | 54.6                              | 1.31   | 77.3   | 4.9   |
|         | 122.0  | 123.0 | 4,292                              | 9,397                | 1,101                              | 3,697                              | 304                                | 53.6                               | 94.1                               | 6.7                                | 19.1                               | 1.9                                | 3.1                                | 0.3                                | 1.4                                | 0.2                                | 44.5                              | 1.90   | 89.8   | 4.9   |
|         | 123.0  | 124.0 | 3,718                              | 7,997                | 936                                | 3,149                              | 250                                | 41.7                               | 69.9                               | 4.6                                | 13.8                               | 1.3                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 1.62   | 52.6   | 6.1   |
|         | 124.0  | 125.0 | 4,445                              | 9,336                | 1,060                              | 3,546                              | 281                                | 45.6                               | 77.3                               | 5.2                                | 14.9                               | 1.4                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 1.88   | 68     | 5.2   |
|         | 125.0  | 126.0 | 4,046                              | 8,808                | 1,022                              | 3,441                              | 271                                | 41.6                               | 68.5                               | 4.5                                | 12.5                               | 1.2                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 27.9                              | 1.77   | 54.3   | 5.3   |
|         | 126.0  | 127.0 | 4,445                              | 9,889                | 1,093                              | 3,674                              | 307                                | 50.7                               | 83.1                               | 6.2                                | 18.5                               | 1.9                                | 3.3                                | 0.3                                | 1.7                                | 0.3                                | 40.6                              | 1.96   | 69.2   | 7.1   |
|         | 127.0  | 128.0 | 3,730                              | 8,587                | 974                                | 3,289                              | 277                                | 45.3                               | 74.1                               | 4.8                                | 14.2                               | 1.5                                | 2.3                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 1.70   | 53.6   | 6     |
|         | 128.0  | 129.0 | 4,375                              | 9,668                | 1,070                              | 3,569                              | 289                                | 47.6                               | 84.7                               | 6.5                                | 19.5                               | 1.8                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 43.2                              | 1.92   | 87.6   | 6.1   |
|         | 129.0  | 130.0 | 3,929                              | 8,808                | 983                                | 3,289                              | 266                                | 42.5                               | 71.0                               | 5.0                                | 14.7                               | 1.5                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 33.0                              | 1.74   | 57     | 6.2   |
|         | 130.0  | 131.0 | 4,152                              | 9,287                | 1,016                              | 3,336                              | 247                                | 40.0                               | 67.3                               | 4.9                                | 14.4                               | 1.4                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 1.82   | 56     | 5.1   |
|         | 131.0  | 132.0 | 4,269                              | 9,483                | 1,038                              | 3,348                              | 240                                | 37.2                               | 58.7                               | 3.8                                | 11.6                               | 1.1                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 1.85   | 32.3   | 5.4   |
|         | 132.0  | 133.0 | 4,445                              | 9,680                | 1,050                              | 3,383                              | 249                                | 40.2                               | 66.0                               | 4.4                                | 12.7                               | 1.4                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 1.90   | 43.7   | 3.9   |
|         | 133.0  | 134.0 | 4,527                              | 9,778                | 1,054                              | 3,371                              | 252                                | 42.0                               | 70.8                               | 5.1                                | 15.7                               | 1.6                                | 2.4                                | 0.2                                | 1.4                                | 0.2                                | 36.8                              | 1.92   | 56     | 7.8   |
|         | 134.0  | 135.0 | 4,867                              | 10,736               | 1,162                              | 3,697                              | 264                                | 42.5                               | 66.0                               | 4.5                                | 12.5                               | 1.2                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 2.09   | 43.9   | 6.1   |
|         | 135.0  | 136.0 | 5,278                              | 11,449               | 1,214                              | 3,849                              | 288                                | 47.2                               | 76.5                               | 5.0                                | 13.7                               | 1.4                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 2.23   | 49.7   | 5.5   |
|         | 136.0  | 137.0 | 5,430                              | 11,596               | 1,232                              | 3,872                              | 291                                | 47.5                               | 78.7                               | 5.0                                | 14.1                               | 1.3                                | 2.6                                | 0.2                                | 1.3                                | 0.2                                | 31.8                              | 2.26   | 51.7   | 5.7   |
|         | 137.0  | 138.0 | 4,691                              | 9,938                | 1,034                              | 3,196                              | 213                                | 33.6                               | 50.8                               | 3.2                                | 9.1                                | 1.0                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 21.6                              | 1.92   | 25.5   | 5.6   |
|         | 138.0  | 139.0 | 5,207                              | 11,461               | 1,232                              | 3,977                              | 296                                | 48.2                               | 77.7                               | 4.7                                | 12.9                               | 1.4                                | 2.3                                | 0.2                                | 1.1                                | 0.1                                | 27.9                              | 2.24   | 45.1   | 4.7   |
|         | 139.0  | 140.0 | 6,509                              | 14,864               | 1,625                              | 5,365                              | 444                                | 76.3                               | 130.2                              | 7.9                                | 20.1                               | 1.8                                | 2.9                                | 0.2                                | 0.9                                | 0.1                                | 39.4                              | 2.91   | 96     | 2.3   |
|         | 140.0  | 141.0 | 5,430                              | 11,596               | 1,232                              | 3,919                              | 296                                | 47.2                               | 79.9                               | 5.7                                | 17.5                               | 1.9                                | 3.2                                | 0.3                                | 1.5                                | 0.2                                | 43.2                              | 2.27   | 69.6   | 4.8   |
|         | 141.0  | 142.0 | 4,328                              | 9,274                | 973                                | 3,056                              | 227                                | 36.0                               | 62.8                               | 4.8                                | 15.3                               | 1.7                                | 2.9                                | 0.3                                | 1.5                                | 0.2                                | 40.6                              | 1.80   | 51.3   | 5.8   |
|         | 142.0  | 143.0 | 3,765                              | 8,378                | 903                                | 2,951                              | 227                                | 36.4                               | 61.7                               | 4.5                                | 13.7                               | 1.4                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 1.64   | 55.8   | 7.9   |
|         | 143.0  | 144.0 | 4,762                              | 10,368               | 1,104                              | 3,569                              | 289                                | 47.7                               | 82.8                               | 5.5                                | 16.3                               | 1.6                                | 2.9                                | 0.2                                | 1.1                                | 0.2                                | 40.6                              | 2.03   | 66.8   | 4.7   |
|         | 144.0  | 145.0 | 5,958                              | 12,407               | 1,275                              | 3,931                              | 268                                | 41.9                               | 68.9                               | 5.1                                | 15.8                               | 1.8                                | 3.0                                | 0.3                                | 1.5                                | 0.2                                | 41.9                              | 2.40   | 53.5   | 5.6   |
|         | 145.0  | 146.0 | 4,468                              | 9,643                | 1,017                              | 3,184                              | 210                                | 31.0                               | 47.7                               | 3.1                                | 10.3                               | 1.1                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 1.86   | 28.3   | 4.5   |
|         | 146.0  | 147.0 | 3,964                              | 8,513                | 890                                | 2,776                              | 186                                | 27.0                               | 41.0                               | 2.8                                | 8.8                                | 1.0                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 22.9                              | 1.64   | 23.2   | 7.7   |
|         | 147.0  | 148.0 | 4,715                              | 9,889                | 1,022                              | 3,173                              | 211                                | 32.1                               | 48.4                               | 3.1                                | 9.6                                | 1.1                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 1.91   | 29.9   | 6.7   |
|         | 148.0  | 149.0 | 4,949                              | 10,478               | 1,096                              | 3,394                              | 230                                | 34.0                               | 54.8                               | 3.8                                | 12.1                               | 1.3                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 29.2                              | 2.03   | 34.8   | 5.5   |
|         | 149.0  | 150.0 | 4,152                              | 8,844                | 923                                | 2,904                              | 198                                | 29.4                               | 47.6                               | 2.9                                | 9.2                                | 1.1                                | 1.9                                | 0.2                                | 1.3                                | 0.2                                | 24.1                              | 1.71   | 28.2   | 7.1   |
|         | 150.0  | 151.0 | 2,674                              | 5,687                | 573                                | 1,744                              | 112                                | 17.0                               | 27.1                               | 2.0                                | 6.9                                | 0.9                                | 1.7                                | 0.2                                | 1.1                                | 0.1                                | 22.9                              | 1.09   | 15     | 7.5   |
|         | 151.0  | 152.0 | 3,190                              | 6,523                | 662                                | 2,041                              | 145                                | 23.5                               | 43.7                               | 3.4                                | 10.2                               | 1.2                                | 2.3                                | 0.2                                | 1.4                                | 0.2                                | 29.2                              | 1.27   | 44.9   | 6.2   |
|         | 152.0  | 153.0 | 4,515                              | 10,392               | 1,148                              | 3,896                              | 373                                | 68.0                               | 120.5                              | 8.3                                | 28.8                               | 3.8                                | 8.2                                | 1.0                                | 5.2                                | 0.7                                | 101.6                             | 2.07   | 101    | 2     |
|         | 153.0  | 154.0 | 652                                | 1,536                | 175                                | 604                                | 61                                 | 11.6                               | 20.4                               | 1.6                                | 5.7                                | 0.8                                | 1.9                                | 0.2                                | 1.5                                | 0.2                                | 25.4                              | 0.31   | 19.8   | 0.8   |
|         | 154.0  | 155.0 | 4,480                              | 7,825                | 727                                | 2,129                              | 152                                | 25.5                               | 45.2                               | 3.7                                | 12.2                               | 1.6                                | 3.5                                | 0.4                                | 2.2                                | 0.3                                | 44.5                              | 1.55   | 30.6   | 8.9   |
|         | 155.0  | 156.0 | 13,194                             | 21,804               | 1,945                              | 5,470                              | 351                                | 56.3                               | 95.1                               | 7.2                                | 23.0                               | 2.8                                | 5.4                                | 0.6                                | 3.3                                | 0.5                                | 68.6                              | 4.30   | 62     | 15    |
|         | 156.0  | 157.0 | 13,487                             | 22,541               | 2,102                              | 5,762                              | 369                                | 58.8                               | 100.7                              | 7.9                                | 24.6                               | 2.8                                | 5.6                                | 0.6                                | 3.3                                | 0.4                                | 72.4                              | 4.45   | 61.1   | 14.2  |
|         | 157.0  | 158.0 | 13,780                             | 22,787               | 2,114                              | 5,832                              | 371                                | 58.4                               | 99.5                               | 7.5                                | 24.8                               | 2.9                                | 5.8                                | 0.6                                | 3.3                                | 0.5                                | 73.7                              | 4.52   | 60.1   | 14.4  |
|         | 158.0  | 159.0 | 13,956                             | 23,278               | 2,157                              | 5,949                              | 385                                | 60.2                               | 104.2                              | 8.0                                | 24.9                               | 3.1                                | 5.7                                | 0.6                                | 3.4                                | 0.4                                | 74.9                              | 4.60   | 62.3   | 14    |
|         | 159.0  | 160.0 | 13,429                             | 22,418               | 2,096                              | 5,867                              | 379                                | 60.2                               | 101.4                              | 7.9                                | 24.9                               | 2.9                                | 5.6                                | 0.6                                | 3.2                                | 0.4                                | 72.4                              | 4.45   | 61.9   | 14    |

| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 160.0  | 161.0 | 7,107                              | 15,171               | 1,655                              | 5,249                              | 397                                | 62.0                               | 101.7                              | 6.7                                | 19.1                               | 2.1                                | 3.7                                | 0.3                                | 1.6                                | 0.2                                | 49.5                              | 2.98   | 70.6   | 6.8   |
|                 | 161.0  | 162.0 | 8,245                              | 15,232               | 1,571                              | 4,631                              | 335                                | 53.8                               | 91.2                               | 6.9                                | 20.0                               | 2.2                                | 4.2                                | 0.4                                | 2.3                                | 0.2                                | 53.3                              | 3.02   | 74.6   | 9.1   |
|                 | 162.0  | 163.0 | 5,583                              | 11,117               | 1,150                              | 3,604                              | 263                                | 42.4                               | 69.7                               | 4.8                                | 14.4                               | 1.6                                | 2.9                                | 0.3                                | 1.4                                | 0.2                                | 39.4                              | 2.19   | 48.7   | 6.3   |
|                 | 163.0  | 164.0 | 4,292                              | 8,734                | 893                                | 2,776                              | 192                                | 31.2                               | 52.0                               | 3.9                                | 11.1                               | 1.3                                | 2.3                                | 0.2                                | 1.3                                | 0.2                                | 31.8                              | 1.70   | 36.7   | 7.5   |
|                 | 164.0  | 165.0 | 4,339                              | 8,685                | 889                                | 2,741                              | 184                                | 27.8                               | 47.3                               | 3.3                                | 10.6                               | 1.1                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 1.70   | 31.4   | 6.5   |
|                 | 165.0  | 166.0 | 3,788                              | 7,555                | 767                                | 2,321                              | 150                                | 22.8                               | 37.1                               | 2.7                                | 8.4                                | 1.0                                | 1.7                                | 0.1                                | 0.8                                | 0.1                                | 22.9                              | 1.47   | 24.9   | 6.2   |
|                 | 166.0  | 167.0 | 4,081                              | 8,316                | 842                                | 2,589                              | 173                                | 26.6                               | 45.9                               | 3.2                                | 9.9                                | 1.2                                | 2.1                                | 0.2                                | 1.3                                | 0.1                                | 27.9                              | 1.61   | 32.5   | 6.7   |
|                 | 167.0  | 168.0 | 2,721                              | 5,872                | 621                                | 2,030                              | 161                                | 26.2                               | 45.0                               | 3.5                                | 11.0                               | 1.2                                | 2.3                                | 0.2                                | 1.4                                | 0.2                                | 30.5                              | 1.15   | 48.3   | 6.6   |
|                 | 168.0  | 169.0 | 3,612                              | 7,739                | 817                                | 2,601                              | 180                                | 27.4                               | 45.2                               | 2.9                                | 9.0                                | 0.9                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.51   | 24.3   | 6.4   |
|                 | 169.0  | 170.0 | 3,941                              | 8,046                | 820                                | 2,554                              | 175                                | 27.4                               | 45.5                               | 3.3                                | 9.6                                | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.56   | 33.9   | 10.4  |
|                 | 170.0  | 171.0 | 6,016                              | 11,707               | 1,154                              | 3,499                              | 249                                | 40.6                               | 71.4                               | 5.1                                | 15.2                               | 1.5                                | 2.5                                | 0.2                                | 1.0                                | 0.2                                | 36.8                              | 2.28   | 61.3   | 6.3   |
|                 | 171.0  | 172.0 | 3,788                              | 7,592                | 764                                | 2,333                              | 154                                | 23.3                               | 38.7                               | 2.6                                | 8.7                                | 1.0                                | 1.6                                | 0.2                                | 0.9                                | 0.2                                | 22.9                              | 1.47   | 24.3   | 6.5   |
|                 | 172.0  | 173.0 | 8,092                              | 15,662               | 1,559                              | 4,526                              | 285                                | 44.4                               | 75.4                               | 5.4                                | 16.1                               | 1.6                                | 2.5                                | 0.2                                | 0.9                                | 0.1                                | 34.3                              | 3.03   | 61.2   | 5.1   |
|                 | 173.0  | 174.0 | 9,160                              | 17,136               | 1,673                              | 4,701                              | 285                                | 43.9                               | 77.3                               | 6.1                                | 19.6                               | 2.2                                | 3.5                                | 0.3                                | 1.4                                | 0.2                                | 48.3                              | 3.32   | 69.7   | 2.7   |
|                 | 174.0  | 175.0 | 17,533                             | 31,693               | 3,021                              | 8,596                              | 497                                | 76.3                               | 129.1                              | 9.3                                | 27.9                               | 3.0                                | 4.6                                | 0.4                                | 1.9                                | 0.2                                | 67.3                              | 6.17   | 97.6   | 3.8   |
|                 | 175.0  | 176.0 | 5,348                              | 10,368               | 1,009                              | 3,009                              | 201                                | 32.0                               | 59.1                               | 4.8                                | 16.2                               | 1.8                                | 3.4                                | 0.3                                | 1.7                                | 0.2                                | 48.3                              | 2.01   | 47.6   | 5.5   |
|                 | 176.0  | 177.0 | 4,984                              | 9,668                | 940                                | 2,823                              | 184                                | 27.8                               | 47.1                               | 3.4                                | 9.8                                | 1.2                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 1.87   | 30.1   | 7.1   |
|                 | 177.0  | 178.0 | 9,089                              | 15,846               | 1,710                              | 4,666                              | 318                                | 52.5                               | 91.3                               | 6.7                                | 20.9                               | 2.2                                | 3.2                                | 0.3                                | 1.5                                | 0.2                                | 50.8                              | 3.19   | 74     | 6     |
|                 | 178.0  | 179.0 | 7,518                              | 12,960               | 1,281                              | 3,709                              | 245                                | 41.8                               | 72.5                               | 5.3                                | 17.0                               | 1.7                                | 2.6                                | 0.2                                | 1.0                                | 0.2                                | 39.4                              | 2.59   | 56.6   | 4     |
|                 | 179.0  | 180.0 | 4,820                              | 8,636                | 883                                | 2,613                              | 172                                | 26.9                               | 49.8                               | 3.6                                | 12.3                               | 1.3                                | 2.4                                | 0.2                                | 0.9                                | 0.2                                | 34.3                              | 1.73   | 39.4   | 6.8   |
|                 | 180.0  | 181.0 | 4,081                              | 7,665                | 831                                | 2,683                              | 232                                | 41.0                               | 71.4                               | 4.9                                | 15.7                               | 1.5                                | 2.6                                | 0.2                                | 1.4                                | 0.2                                | 35.6                              | 1.57   | 52.8   | 8.6   |
| <b>KGKRC035</b> | 0.0    | 1.0   | 3,260                              | 6,056                | 665                                | 2,222                              | 229                                | 46.0                               | 95.2                               | 8.4                                | 34.9                               | 5.0                                | 11.8                               | 1.4                                | 8.0                                | 1.1                                | 142.2                             | 1.28   | 70.8   | 6.9   |
|                 | 1.0    | 2.0   | 2,873                              | 5,442                | 607                                | 2,070                              | 228                                | 45.0                               | 92.2                               | 7.9                                | 31.6                               | 4.4                                | 10.3                               | 1.1                                | 6.2                                | 0.9                                | 124.5                             | 1.15   | 55.1   | 7.7   |
|                 | 2.0    | 3.0   | 2,686                              | 5,110                | 575                                | 1,954                              | 200                                | 39.6                               | 76.2                               | 6.2                                | 22.6                               | 3.1                                | 7.1                                | 0.8                                | 4.2                                | 0.7                                | 82.5                              | 1.08   | 48.1   | 4.8   |
|                 | 3.0    | 4.0   | 5,137                              | 9,238                | 996                                | 3,184                              | 282                                | 50.6                               | 93.9                               | 6.8                                | 22.6                               | 2.7                                | 5.5                                | 0.6                                | 3.4                                | 0.4                                | 68.6                              | 1.91   | 60.1   | 7.1   |
|                 | 4.0    | 5.0   | 2,686                              | 4,975                | 561                                | 1,890                              | 199                                | 38.4                               | 73.5                               | 5.5                                | 20.4                               | 2.5                                | 5.4                                | 0.6                                | 3.3                                | 0.5                                | 69.8                              | 1.05   | 64.9   | 5.8   |
|                 | 5.0    | 6.0   | 4,363                              | 9,311                | 1,142                              | 4,047                              | 408                                | 73.0                               | 130.2                              | 8.5                                | 26.2                               | 2.8                                | 5.2                                | 0.5                                | 3.5                                | 0.5                                | 63.5                              | 1.96   | 93.7   | 8.3   |
|                 | 6.0    | 7.0   | 2,909                              | 6,142                | 738                                | 2,613                              | 256                                | 47.2                               | 85.8                               | 6.0                                | 22.5                               | 2.8                                | 6.1                                | 0.7                                | 3.6                                | 0.6                                | 72.4                              | 1.29   | 44.7   | 16    |
|                 | 7.0    | 8.0   | 1,988                              | 3,771                | 413                                | 1,376                              | 139                                | 28.8                               | 59.2                               | 5.5                                | 22.7                               | 3.4                                | 7.6                                | 0.9                                | 5.0                                | 0.7                                | 94.0                              | 0.79   | 35.1   | 10.6  |
|                 | 8.0    | 9.0   | 2,222                              | 4,840                | 584                                | 2,047                              | 206                                | 38.3                               | 69.4                               | 5.2                                | 18.9                               | 2.3                                | 5.2                                | 0.5                                | 3.2                                | 0.4                                | 59.7                              | 1.01   | 35.5   | 9     |
|                 | 9.0    | 10.0  | 1,841                              | 3,882                | 452                                | 1,598                              | 167                                | 32.8                               | 62.2                               | 5.2                                | 18.6                               | 2.3                                | 4.9                                | 0.6                                | 3.1                                | 0.4                                | 63.5                              | 0.81   | 40.6   | 6.3   |
|                 | 10.0   | 11.0  | 2,041                              | 4,226                | 495                                | 1,715                              | 177                                | 34.5                               | 69.3                               | 5.7                                | 20.9                               | 2.9                                | 6.1                                | 0.6                                | 3.5                                | 0.5                                | 76.2                              | 0.89   | 40.3   | 13    |
|                 | 11.0   | 12.0  | 1,929                              | 3,427                | 358                                | 1,159                              | 131                                | 30.8                               | 71.4                               | 7.3                                | 31.7                               | 4.7                                | 10.4                               | 1.1                                | 6.0                                | 0.9                                | 125.7                             | 0.73   | 39.8   | 7.5   |
|                 | 12.0   | 13.0  | 1,636                              | 3,710                | 371                                | 1,277                              | 158                                | 32.9                               | 72.6                               | 7.3                                | 30.8                               | 4.3                                | 9.7                                | 1.1                                | 5.8                                | 0.8                                | 119.4                             | 0.74   | 54.7   | 6.1   |
|                 | 13.0   | 14.0  | 2,439                              | 5,884                | 633                                | 2,251                              | 235                                | 41.3                               | 76.8                               | 5.7                                | 17.0                               | 2.0                                | 4.1                                | 0.5                                | 2.6                                | 0.3                                | 52.1                              | 1.16   | 36.9   | 6.6   |
|                 | 14.0   | 15.0  | 2,463                              | 5,786                | 621                                | 2,205                              | 237                                | 44.0                               | 86.2                               | 6.9                                | 24.0                               | 3.1                                | 6.2                                | 0.9                                | 4.0                                | 0.6                                | 78.7                              | 1.16   | 42.7   | 7.7   |
|                 | 15.0   | 16.0  | 1,267                              | 2,776                | 273                                | 960                                | 113                                | 25.0                               | 52.2                               | 4.9                                | 21.4                               | 2.8                                | 7.2                                | 0.8                                | 4.9                                | 0.6                                | 82.5                              | 0.56   | 30     | 8.1   |
|                 | 16.0   | 17.0  | 1,272                              | 3,010                | 306                                | 1,080                              | 118                                | 22.8                               | 45.4                               | 4.1                                | 15.6                               | 2.2                                | 5.3                                | 0.6                                | 3.0                                | 0.5                                | 61.0                              | 0.59   | 26.4   | 7.4   |
|                 | 17.0   | 18.0  | 3,143                              | 6,830                | 691                                | 2,286                              | 204                                | 36.7                               | 69.3                               | 5.5                                | 19.3                               | 2.5                                | 5.0                                | 0.6                                | 3.2                                | 0.4                                | 63.5                              | 1.34   | 43.3   | 10.9  |
|                 | 18.0   | 19.0  | 1,460                              | 3,243                | 321                                | 1,106                              | 130                                | 26.9                               | 62.1                               | 6.4                                | 27.0                               | 3.9                                | 9.0                                | 1.1                                | 5.5                                | 0.7                                | 111.8                             | 0.65   | 41.2   | 10    |
|                 | 19.0   | 20.0  | 1,425                              | 3,403                | 350                                | 1,219                              | 125                                | 24.1                               | 47.4                               | 4.1                                | 15.3                               | 2.0                                | 4.5                                | 0.5                                | 2.6                                | 0.4                                | 52.1                              | 0.67   | 24.8   | 7.8   |
|                 | 20.0   | 21.0  | 1,443                              | 3,833                | 416                                | 1,487                              | 155                                | 27.9                               | 54.2                               | 4.2                                | 13.4                               | 1.6                                | 3.1                                | 0.4                                | 1.9                                | 0.3                                | 41.9                              | 0.75   | 25.8   | 6     |
|                 | 21.0   | 22.0  | 1,677                              | 4,287                | 455                                | 1,610                              | 166                                | 32.4                               | 63.4                               | 5.1                                | 18.8                               | 2.6                                | 5.5                                | 0.6                                | 3.5                                | 0.4                                | 66.0                              | 0.84   | 32.9   | 10.3  |
|                 | 22.0   | 23.0  | 1,402                              | 3,182                | 313                                | 1,063                              | 115                                | 23.9                               | 52.1                               | 5.1                                | 22.4                               | 3.1                                | 7.6                                | 0.9                                | 4.7                                | 0.6                                | 90.2                              | 0.63   | 34.3   | 9.5   |
|                 | 23.0   | 24.0  | 1,953                              | 4,533                | 455                                | 1,534                              | 161                                | 31.2                               | 65.9                               | 6.0                                | 22.5                               | 3.1                                | 7.3                                | 0.8                                | 4.4                                | 0.5                                | 81.3                              | 0.89   | 38.8   | 10.3  |
|                 | 24.0   | 25.0  | 1,959                              | 4,607                | 458                                | 1,522                              | 156                                | 31.3                               | 67.5                               | 6.5                                | 26.2                               | 3.7                                | 8.2                                | 0.9                                | 5.0                                | 0.7                                | 95.2                              | 0.89   | 42.4   | 8.9   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 25.0   | 26.0 | 1,747                              | 4,459                | 465                                | 1,610                              | 154                                | 27.1                               | 50.0                               | 3.6                                | 11.1                               | 1.2                                | 2.3                                | 0.3                                | 1.6                                | 0.6                                | 29.2                              | 0.86   | 24.1   | 5.1   |
|         | 26.0   | 27.0 | 5,348                              | 11,842               | 1,232                              | 4,071                              | 348                                | 58.6                               | 104.0                              | 7.2                                | 20.4                               | 2.2                                | 3.9                                | 0.4                                | 2.2                                | 0.4                                | 47.0                              | 2.31   | 66.7   | 7.5   |
|         | 27.0   | 28.0 | 9,054                              | 20,821               | 2,302                              | 7,033                              | 591                                | 98.3                               | 171.2                              | 11.2                               | 28.0                               | 2.8                                | 4.5                                | 0.5                                | 2.4                                | 0.4                                | 58.4                              | 4.02   | 110.5  | 3.3   |
|         | 28.0   | 29.0 | 1,853                              | 4,668                | 497                                | 1,744                              | 170                                | 31.3                               | 57.1                               | 4.6                                | 15.4                               | 1.8                                | 4.0                                | 0.5                                | 2.6                                | 0.4                                | 45.7                              | 0.91   | 31.1   | 5     |
|         | 29.0   | 30.0 | 2,744                              | 6,830                | 745                                | 2,636                              | 257                                | 45.2                               | 81.6                               | 5.4                                | 16.6                               | 1.7                                | 3.5                                | 0.3                                | 1.7                                | 0.3                                | 39.4                              | 1.34   | 33.7   | 4.2   |
|         | 30.0   | 31.0 | 2,340                              | 5,982                | 655                                | 2,333                              | 223                                | 38.1                               | 68.8                               | 4.5                                | 13.3                               | 1.4                                | 2.4                                | 0.3                                | 1.3                                | 0.2                                | 29.2                              | 1.17   | 31.9   | 8.5   |
|         | 31.0   | 32.0 | 6,744                              | 15,109               | 1,559                              | 5,074                              | 426                                | 70.9                               | 122.8                              | 8.0                                | 21.7                               | 2.2                                | 3.7                                | 0.4                                | 1.8                                | 0.2                                | 47.0                              | 2.92   | 75.7   | 5.4   |
|         | 32.0   | 33.0 | 2,064                              | 5,368                | 585                                | 2,065                              | 212                                | 38.2                               | 73.4                               | 6.0                                | 19.5                               | 2.3                                | 5.4                                | 0.6                                | 3.1                                | 0.5                                | 62.2                              | 1.05   | 36     | 3.5   |
|         | 33.0   | 34.0 | 1,947                              | 5,073                | 539                                | 1,866                              | 187                                | 33.7                               | 66.4                               | 5.2                                | 18.8                               | 2.5                                | 5.8                                | 0.6                                | 3.5                                | 0.4                                | 63.5                              | 0.98   | 33.9   | 6.6   |
|         | 34.0   | 35.0 | 3,952                              | 9,496                | 1,028                              | 3,476                              | 296                                | 49.1                               | 84.6                               | 5.3                                | 13.3                               | 1.3                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 25.4                              | 1.84   | 40.8   | 5.2   |
|         | 35.0   | 36.0 | 5,477                              | 12,653               | 1,329                              | 4,444                              | 412                                | 69.0                               | 122.2                              | 8.1                                | 22.0                               | 2.0                                | 3.4                                | 0.3                                | 1.9                                | 0.3                                | 44.5                              | 2.46   | 77.6   | 4.6   |
|         | 36.0   | 37.0 | 1,613                              | 3,980                | 411                                | 1,441                              | 164                                | 31.8                               | 65.2                               | 6.0                                | 23.2                               | 3.1                                | 7.3                                | 0.7                                | 4.2                                | 0.6                                | 81.3                              | 0.78   | 43.7   | 4.2   |
|         | 37.0   | 38.0 | 1,525                              | 4,263                | 474                                | 1,720                              | 176                                | 31.0                               | 57.9                               | 4.0                                | 12.1                               | 1.4                                | 2.5                                | 0.3                                | 1.7                                | 0.3                                | 29.2                              | 0.83   | 26.8   | 1.2   |
|         | 38.0   | 39.0 | 1,771                              | 4,373                | 458                                | 1,569                              | 166                                | 32.7                               | 67.2                               | 6.0                                | 23.9                               | 3.2                                | 7.3                                | 0.8                                | 4.6                                | 0.6                                | 83.8                              | 0.86   | 46.4   | 8.5   |
|         | 39.0   | 40.0 | 1,267                              | 2,887                | 290                                | 1,017                              | 125                                | 28.0                               | 67.3                               | 6.9                                | 31.3                               | 4.4                                | 10.5                               | 1.1                                | 6.2                                | 0.8                                | 124.5                             | 0.59   | 47.3   | 9.1   |
|         | 40.0   | 41.0 | 1,501                              | 3,390                | 332                                | 1,117                              | 135                                | 30.3                               | 73.9                               | 7.7                                | 33.2                               | 4.8                                | 11.1                               | 1.3                                | 6.6                                | 0.9                                | 132.1                             | 0.68   | 44.2   | 6.3   |
|         | 41.0   | 42.0 | 1,736                              | 3,636                | 416                                | 1,435                              | 176                                | 36.6                               | 82.6                               | 8.6                                | 35.4                               | 5.1                                | 10.6                               | 1.1                                | 5.7                                | 0.7                                | 133.3                             | 0.77   | 55.7   | 12.2  |
|         | 42.0   | 43.0 | 1,712                              | 3,697                | 426                                | 1,452                              | 151                                | 29.6                               | 62.5                               | 6.1                                | 25.7                               | 3.6                                | 8.1                                | 0.9                                | 4.8                                | 0.6                                | 96.5                              | 0.77   | 38.8   | 18.9  |
|         | 43.0   | 44.0 | 1,460                              | 3,022                | 333                                | 1,137                              | 142                                | 30.7                               | 74.6                               | 8.2                                | 36.3                               | 5.3                                | 11.8                               | 1.3                                | 7.1                                | 0.8                                | 147.3                             | 0.64   | 40.7   | 6.6   |
|         | 44.0   | 45.0 | 1,372                              | 2,899                | 324                                | 1,078                              | 129                                | 28.5                               | 67.4                               | 7.6                                | 33.1                               | 5.1                                | 10.6                               | 1.2                                | 6.3                                | 0.7                                | 132.1                             | 0.61   | 48     | 7.6   |
|         | 45.0   | 46.0 | 1,384                              | 2,985                | 331                                | 1,106                              | 121                                | 24.3                               | 53.6                               | 5.5                                | 24.2                               | 3.5                                | 8.1                                | 0.9                                | 4.9                                | 0.7                                | 92.7                              | 0.61   | 36.3   | 11    |
|         | 46.0   | 47.0 | 1,419                              | 3,268                | 383                                | 1,330                              | 137                                | 25.2                               | 49.6                               | 4.4                                | 15.5                               | 2.1                                | 4.2                                | 0.5                                | 2.5                                | 0.3                                | 52.1                              | 0.67   | 26.5   | 6.5   |
|         | 47.0   | 48.0 | 1,572                              | 3,022                | 318                                | 1,044                              | 128                                | 27.9                               | 64.8                               | 7.0                                | 30.1                               | 4.3                                | 10.0                               | 1.1                                | 5.8                                | 0.7                                | 119.4                             | 0.64   | 38.4   | 7.2   |
|         | 48.0   | 49.0 | 1,407                              | 2,887                | 309                                | 1,016                              | 113                                | 24.7                               | 56.1                               | 5.9                                | 25.6                               | 3.8                                | 8.2                                | 0.9                                | 4.9                                | 0.6                                | 101.6                             | 0.60   | 34.7   | 7.3   |
|         | 49.0   | 50.0 | 1,372                              | 2,788                | 302                                | 1,033                              | 130                                | 28.0                               | 64.3                               | 6.8                                | 30.2                               | 4.5                                | 9.8                                | 1.1                                | 6.0                                | 0.7                                | 123.2                             | 0.59   | 40.1   | 5.6   |
|         | 50.0   | 51.0 | 1,419                              | 2,862                | 306                                | 1,017                              | 120                                | 25.8                               | 59.5                               | 6.5                                | 28.8                               | 4.4                                | 9.6                                | 1.1                                | 5.9                                | 0.7                                | 115.6                             | 0.60   | 34.8   | 10.2  |
|         | 51.0   | 52.0 | 1,548                              | 2,973                | 312                                | 995                                | 110                                | 23.4                               | 54.4                               | 5.9                                | 25.9                               | 3.9                                | 8.5                                | 1.0                                | 5.1                                | 0.6                                | 102.9                             | 0.62   | 27.3   | 12    |
|         | 52.0   | 53.0 | 1,970                              | 4,250                | 471                                | 1,516                              | 135                                | 22.7                               | 42.8                               | 3.4                                | 11.9                               | 1.5                                | 3.2                                | 0.4                                | 1.9                                | 0.2                                | 38.1                              | 0.85   | 24.7   | 11.3  |
|         | 53.0   | 54.0 | 1,976                              | 4,385                | 497                                | 1,621                              | 141                                | 23.6                               | 42.2                               | 3.2                                | 11.1                               | 1.4                                | 2.6                                | 0.3                                | 1.7                                | 0.3                                | 34.3                              | 0.87   | 23.1   | 10.9  |
|         | 54.0   | 55.0 | 984                                | 2,107                | 232                                | 760                                | 83                                 | 16.9                               | 36.9                               | 4.0                                | 18.1                               | 2.7                                | 6.0                                | 0.6                                | 3.8                                | 0.5                                | 69.8                              | 0.43   | 20.8   | 5.5   |
|         | 55.0   | 56.0 | 5,196                              | 11,658               | 1,402                              | 4,374                              | 384                                | 65.8                               | 114.3                              | 8.6                                | 25.8                               | 2.7                                | 5.6                                | 0.6                                | 4.1                                | 0.6                                | 62.2                              | 2.33   | 74.2   | 31.6  |
|         | 56.0   | 57.0 | 4,023                              | 8,869                | 1,019                              | 3,313                              | 285                                | 48.6                               | 83.3                               | 5.8                                | 17.0                               | 1.9                                | 3.4                                | 0.3                                | 1.6                                | 0.3                                | 40.6                              | 1.77   | 52.2   | 22    |
|         | 57.0   | 58.0 | 1,671                              | 3,513                | 398                                | 1,341                              | 141                                | 27.2                               | 54.1                               | 5.1                                | 19.3                               | 2.7                                | 5.5                                | 0.7                                | 3.2                                | 0.4                                | 68.6                              | 0.73   | 34.3   | 9.7   |
|         | 58.0   | 59.0 | 6,099                              | 13,390               | 1,589                              | 4,934                              | 424                                | 69.5                               | 119.9                              | 8.1                                | 23.4                               | 2.5                                | 4.0                                | 0.4                                | 2.2                                | 0.3                                | 53.3                              | 2.67   | 83.8   | 8.7   |
|         | 59.0   | 60.0 | 3,401                              | 7,248                | 824                                | 2,706                              | 245                                | 42.4                               | 75.6                               | 5.7                                | 19.1                               | 2.1                                | 4.1                                | 0.4                                | 2.6                                | 0.3                                | 50.8                              | 1.46   | 51.4   | 9.4   |
|         | 60.0   | 61.0 | 10,626                             | 23,462               | 2,731                              | 8,865                              | 742                                | 122.2                              | 206.3                              | 13.8                               | 37.2                               | 3.6                                | 5.6                                | 0.5                                | 2.1                                | 0.3                                | 71.1                              | 4.69   | 164.5  | 8.8   |
|         | 61.0   | 62.0 | 6,005                              | 13,635               | 1,631                              | 5,144                              | 441                                | 72.8                               | 120.5                              | 8.0                                | 23.2                               | 2.3                                | 3.7                                | 0.4                                | 1.8                                | 0.3                                | 45.7                              | 2.71   | 82.2   | 11.2  |
|         | 62.0   | 63.0 | 1,624                              | 3,243                | 352                                | 1,155                              | 125                                | 25.7                               | 57.6                               | 6.0                                | 26.1                               | 3.8                                | 8.8                                | 0.9                                | 5.4                                | 0.7                                | 101.6                             | 0.67   | 30.1   | 9.8   |
|         | 63.0   | 64.0 | 1,683                              | 3,169                | 333                                | 1,080                              | 118                                | 25.2                               | 57.4                               | 6.3                                | 26.7                               | 4.0                                | 8.9                                | 1.0                                | 5.5                                | 0.7                                | 106.7                             | 0.66   | 28.8   | 8.7   |
|         | 64.0   | 66.0 | 2,099                              | 4,324                | 481                                | 1,610                              | 187                                | 37.9                               | 82.3                               | 8.2                                | 34.1                               | 5.1                                | 11.3                               | 1.2                                | 6.0                                | 0.8                                | 137.2                             | 0.90   | 44.9   | 7.7   |
|         | 66.0   | 67.0 | 1,736                              | 3,808                | 441                                | 1,540                              | 177                                | 34.0                               | 67.5                               | 6.3                                | 23.4                               | 3.4                                | 6.9                                | 0.7                                | 4.2                                | 0.6                                | 86.4                              | 0.79   | 53.2   | 9.9   |
|         | 67.0   | 68.0 | 1,677                              | 3,845                | 454                                | 1,575                              | 176                                | 33.8                               | 69.7                               | 6.3                                | 24.0                               | 3.3                                | 7.0                                | 0.8                                | 4.4                                | 0.6                                | 87.6                              | 0.80   | 72.8   | 10.4  |
|         | 68.0   | 69.0 | 1,947                              | 4,349                | 513                                | 1,767                              | 180                                | 32.1                               | 60.4                               | 5.0                                | 19.3                               | 2.7                                | 5.7                                | 0.6                                | 3.6                                | 0.5                                | 71.1                              | 0.90   | 42.9   | 7.4   |
|         | 69.0   | 70.0 | 2,287                              | 5,344                | 643                                | 2,216                              | 205                                | 33.6                               | 58.8                               | 3.8                                | 11.0                               | 1.2                                | 2.3                                | 0.2                                | 1.4                                | 0.2                                | 29.2                              | 1.08   | 39.3   | 11    |
|         | 70.0   | 71.0 | 2,299                              | 5,147                | 613                                | 2,076                              | 218                                | 38.6                               | 71.2                               | 5.8                                | 20.4                               | 2.5                                | 5.2                                | 0.5                                | 3.2                                | 0.5                                | 67.3                              | 1.06   | 46.3   | 6.3   |
|         | 71.0   | 72.0 | 1,841                              | 4,127                | 463                                | 1,732                              | 197                                | 38.4                               | 80.0                               | 7.4                                | 28.4                               | 3.9                                | 8.9                                | 1.0                                | 6.0                                | 0.8                                | 115.6                             | 0.87   | 55.5   | 9.9   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 72.0   | 73.0  | 2,211                              | 4,496                | 474                                | 1,650                              | 168                                | 33.6                               | 71.8                               | 7.0                                | 29.8                               | 4.1                                | 9.4                                | 1.0                                | 6.0                                | 0.9                                | 118.1                             | 0.93   | 38.8   | 10.2  |
|         | 73.0   | 74.0  | 2,305                              | 4,791                | 515                                | 1,825                              | 191                                | 37.4                               | 77.5                               | 6.7                                | 25.6                               | 3.3                                | 7.3                                | 0.9                                | 5.5                                | 0.7                                | 94.0                              | 0.99   | 53.6   | 4.5   |
|         | 74.0   | 75.0  | 2,058                              | 4,177                | 442                                | 1,569                              | 172                                | 33.8                               | 72.7                               | 6.6                                | 28.0                               | 3.8                                | 8.8                                | 1.1                                | 7.0                                | 0.9                                | 118.1                             | 0.87   | 47.5   | 6.9   |
|         | 75.0   | 76.0  | 1,900                              | 3,771                | 402                                | 1,458                              | 170                                | 34.0                               | 73.4                               | 6.5                                | 27.1                               | 3.4                                | 7.1                                | 0.7                                | 5.0                                | 0.7                                | 100.3                             | 0.80   | 58.1   | 5.3   |
|         | 76.0   | 77.0  | 2,299                              | 4,840                | 532                                | 1,942                              | 215                                | 41.7                               | 78.2                               | 6.7                                | 25.0                               | 3.0                                | 6.2                                | 0.7                                | 4.1                                | 0.5                                | 85.1                              | 1.01   | 54.5   | 4.7   |
|         | 77.0   | 78.0  | 1,994                              | 4,213                | 468                                | 1,738                              | 204                                | 41.6                               | 86.5                               | 7.7                                | 31.0                               | 4.2                                | 9.7                                | 1.1                                | 6.8                                | 0.9                                | 124.5                             | 0.89   | 56.7   | 7.1   |
|         | 78.0   | 79.0  | 2,093                              | 4,619                | 518                                | 1,930                              | 240                                | 49.3                               | 105.6                              | 10.0                               | 41.1                               | 5.9                                | 14.8                               | 1.6                                | 10.7                               | 1.3                                | 174.0                             | 0.98   | 76     | 7.1   |
|         | 79.0   | 80.0  | 2,615                              | 6,265                | 724                                | 2,659                              | 253                                | 44.5                               | 74.3                               | 4.9                                | 17.1                               | 2.0                                | 3.9                                | 0.4                                | 2.2                                | 0.3                                | 50.8                              | 1.27   | 50.7   | 6.1   |
|         | 80.0   | 81.0  | 2,228                              | 5,282                | 607                                | 2,205                              | 208                                | 35.2                               | 59.7                               | 4.0                                | 13.3                               | 1.6                                | 3.0                                | 0.4                                | 2.4                                | 0.3                                | 40.6                              | 1.07   | 40.4   | 5.9   |
|         | 81.0   | 82.0  | 2,111                              | 5,307                | 637                                | 2,403                              | 226                                | 36.9                               | 61.4                               | 4.0                                | 12.2                               | 1.3                                | 2.6                                | 0.2                                | 1.9                                | 0.3                                | 33.0                              | 1.08   | 52.5   | 6.4   |
|         | 82.0   | 83.0  | 2,357                              | 5,724                | 680                                | 2,519                              | 234                                | 40.4                               | 72.3                               | 4.9                                | 14.7                               | 1.6                                | 3.2                                | 0.3                                | 2.4                                | 0.4                                | 40.6                              | 1.17   | 49.8   | 8.9   |
|         | 83.0   | 84.0  | 2,187                              | 5,221                | 588                                | 2,135                              | 195                                | 32.7                               | 56.4                               | 3.7                                | 11.3                               | 1.2                                | 2.2                                | 0.2                                | 1.5                                | 0.2                                | 27.9                              | 1.05   | 36.5   | 5.3   |
|         | 84.0   | 85.0  | 3,002                              | 6,879                | 771                                | 2,741                              | 245                                | 40.0                               | 67.3                               | 4.2                                | 11.9                               | 1.1                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 25.4                              | 1.38   | 44.1   | 5.3   |
|         | 85.0   | 86.0  | 2,316                              | 5,135                | 582                                | 2,047                              | 181                                | 29.0                               | 48.9                               | 3.1                                | 8.7                                | 0.9                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 21.6                              | 1.04   | 29.5   | 4.7   |
|         | 86.0   | 87.0  | 3,859                              | 8,169                | 884                                | 3,079                              | 268                                | 44.6                               | 75.4                               | 4.7                                | 13.5                               | 1.3                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 27.9                              | 1.64   | 43.3   | 5.7   |
|         | 87.0   | 88.0  | 3,061                              | 6,584                | 724                                | 2,566                              | 226                                | 38.0                               | 64.0                               | 4.0                                | 11.8                               | 1.2                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 27.9                              | 1.33   | 37.6   | 5.4   |
|         | 88.0   | 89.0  | 4,316                              | 8,808                | 952                                | 3,301                              | 288                                | 47.5                               | 82.1                               | 5.0                                | 14.4                               | 1.4                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 1.79   | 45.5   | 4.5   |
|         | 89.0   | 90.0  | 2,187                              | 5,208                | 596                                | 2,140                              | 192                                | 33.4                               | 54.6                               | 3.5                                | 10.6                               | 1.2                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 1.05   | 33.3   | 5.9   |
|         | 90.0   | 91.0  | 4,832                              | 10,834               | 1,194                              | 4,164                              | 350                                | 56.9                               | 96.6                               | 6.4                                | 17.9                               | 1.6                                | 2.6                                | 0.2                                | 1.3                                | 0.2                                | 35.6                              | 2.16   | 57.4   | 4.8   |
|         | 91.0   | 92.0  | 6,955                              | 16,031               | 1,812                              | 6,147                              | 515                                | 82.0                               | 136.0                              | 8.2                                | 21.8                               | 1.8                                | 3.1                                | 0.3                                | 1.3                                | 0.2                                | 38.1                              | 3.18   | 72.2   | 2.4   |
|         | 92.0   | 93.0  | 3,776                              | 8,513                | 951                                | 3,348                              | 279                                | 45.0                               | 77.2                               | 5.0                                | 14.0                               | 1.2                                | 2.4                                | 0.2                                | 1.4                                | 0.2                                | 30.5                              | 1.70   | 43     | 4.5   |
|         | 93.0   | 94.0  | 6,345                              | 14,127               | 1,607                              | 5,365                              | 456                                | 73.2                               | 123.3                              | 7.3                                | 20.0                               | 1.7                                | 2.6                                | 0.2                                | 1.1                                | 0.2                                | 36.8                              | 2.82   | 77.9   | 2.6   |
|         | 94.0   | 95.0  | 7,694                              | 16,829               | 1,891                              | 6,474                              | 513                                | 81.6                               | 134.9                              | 8.0                                | 21.1                               | 1.8                                | 2.9                                | 0.2                                | 1.0                                | 0.2                                | 36.8                              | 3.37   | 70.3   | 2.6   |
|         | 95.0   | 96.0  | 4,703                              | 10,380               | 1,125                              | 3,872                              | 321                                | 52.0                               | 89.1                               | 5.7                                | 16.6                               | 1.6                                | 2.9                                | 0.2                                | 1.5                                | 0.2                                | 36.8                              | 2.06   | 55     | 4.1   |
|         | 96.0   | 97.0  | 2,697                              | 6,240                | 706                                | 2,484                              | 207                                | 34.5                               | 60.4                               | 4.0                                | 14.0                               | 1.4                                | 2.5                                | 0.2                                | 1.1                                | 0.2                                | 34.3                              | 1.25   | 39     | 5.5   |
|         | 97.0   | 98.0  | 4,937                              | 11,744               | 1,402                              | 4,771                              | 392                                | 62.5                               | 99.9                               | 5.7                                | 16.5                               | 1.5                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 31.8                              | 2.35   | 59.7   | 4.9   |
|         | 98.0   | 99.0  | 3,542                              | 8,181                | 911                                | 3,208                              | 270                                | 43.7                               | 74.0                               | 4.9                                | 13.9                               | 1.4                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 1.63   | 47.4   | 10    |
|         | 99.0   | 100.0 | 5,125                              | 11,694               | 1,335                              | 4,467                              | 376                                | 62.2                               | 102.8                              | 6.7                                | 19.1                               | 1.9                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 41.9                              | 2.32   | 59.2   | 4.4   |
|         | 100.0  | 101.0 | 5,454                              | 12,898               | 1,510                              | 5,144                              | 429                                | 67.9                               | 116.4                              | 7.6                                | 20.1                               | 2.0                                | 3.1                                | 0.3                                | 1.4                                | 0.2                                | 43.2                              | 2.57   | 68.6   | 4.8   |
|         | 101.0  | 102.0 | 3,636                              | 7,714                | 924                                | 3,114                              | 262                                | 41.7                               | 71.5                               | 4.6                                | 13.1                               | 1.5                                | 2.5                                | 0.3                                | 1.5                                | 0.2                                | 34.3                              | 1.58   | 44.1   | 5.5   |
|         | 102.0  | 103.0 | 3,026                              | 6,572                | 781                                | 2,636                              | 228                                | 36.4                               | 63.5                               | 4.1                                | 12.2                               | 1.4                                | 2.4                                | 0.3                                | 1.4                                | 0.2                                | 30.5                              | 1.34   | 38.3   | 4.5   |
|         | 103.0  | 104.0 | 4,046                              | 8,427                | 993                                | 3,313                              | 274                                | 42.0                               | 72.8                               | 4.6                                | 13.2                               | 1.4                                | 2.7                                | 0.3                                | 1.6                                | 0.2                                | 33.0                              | 1.72   | 41     | 3.7   |
|         | 104.0  | 105.0 | 3,812                              | 7,960                | 938                                | 3,138                              | 264                                | 42.0                               | 74.7                               | 5.2                                | 14.2                               | 1.5                                | 2.6                                | 0.3                                | 1.4                                | 0.2                                | 33.0                              | 1.63   | 44.4   | 3.6   |
|         | 105.0  | 106.0 | 3,988                              | 8,464                | 1,004                              | 3,383                              | 281                                | 44.0                               | 79.1                               | 5.1                                | 14.9                               | 1.6                                | 2.6                                | 0.2                                | 1.1                                | 0.2                                | 33.0                              | 1.73   | 48.2   | 4.7   |
|         | 106.0  | 107.0 | 4,199                              | 8,611                | 1,010                              | 3,359                              | 273                                | 44.7                               | 79.3                               | 5.1                                | 15.8                               | 1.7                                | 3.0                                | 0.3                                | 2.1                                | 0.3                                | 41.9                              | 1.76   | 49.6   | 5.2   |
|         | 107.0  | 108.0 | 3,554                              | 7,272                | 845                                | 2,776                              | 231                                | 37.4                               | 69.6                               | 4.7                                | 14.5                               | 1.5                                | 3.1                                | 0.4                                | 2.4                                | 0.5                                | 40.6                              | 1.49   | 50.1   | 3.6   |
|         | 108.0  | 109.0 | 5,899                              | 12,775               | 1,613                              | 4,911                              | 405                                | 61.8                               | 110.5                              | 7.2                                | 21.4                               | 2.5                                | 5.4                                | 0.6                                | 4.7                                | 0.9                                | 69.8                              | 2.59   | 68     | 4.5   |
|         | 109.0  | 110.0 | 4,292                              | 8,660                | 994                                | 3,313                              | 277                                | 44.6                               | 79.8                               | 5.4                                | 15.0                               | 1.5                                | 2.7                                | 0.3                                | 1.5                                | 0.2                                | 34.3                              | 1.77   | 44.6   | 3.6   |
|         | 110.0  | 111.0 | 4,140                              | 8,439                | 971                                | 3,196                              | 262                                | 40.0                               | 68.4                               | 4.2                                | 12.6                               | 1.3                                | 2.6                                | 0.3                                | 1.6                                | 0.2                                | 30.5                              | 1.72   | 36.2   | 3.9   |
|         | 111.0  | 112.0 | 2,955                              | 5,945                | 698                                | 2,333                              | 208                                | 34.2                               | 64.3                               | 4.2                                | 14.0                               | 1.6                                | 3.0                                | 0.3                                | 1.7                                | 0.2                                | 36.8                              | 1.23   | 40.5   | 8     |
|         | 112.0  | 113.0 | 5,430                              | 11,252               | 1,311                              | 4,339                              | 362                                | 58.8                               | 107.0                              | 7.0                                | 20.4                               | 2.0                                | 3.5                                | 0.3                                | 1.5                                | 0.2                                | 41.9                              | 2.29   | 63     | 4.4   |
|         | 113.0  | 114.0 | 4,668                              | 9,717                | 1,139                              | 3,756                              | 317                                | 50.6                               | 92.3                               | 5.8                                | 16.5                               | 1.7                                | 2.9                                | 0.2                                | 1.3                                | 0.2                                | 36.8                              | 1.98   | 50.9   | 3.3   |
|         | 114.0  | 115.0 | 4,421                              | 8,832                | 1,003                              | 3,266                              | 266                                | 40.8                               | 71.2                               | 4.6                                | 14.0                               | 1.6                                | 2.7                                | 0.3                                | 1.6                                | 0.2                                | 34.3                              | 1.80   | 43.2   | 4     |
|         | 115.0  | 116.0 | 2,920                              | 5,884                | 673                                | 2,216                              | 202                                | 33.7                               | 64.9                               | 4.4                                | 13.4                               | 1.5                                | 2.7                                | 0.3                                | 1.3                                | 0.2                                | 31.8                              | 1.20   | 44.2   | 6.2   |
|         | 116.0  | 117.0 | 3,178                              | 6,474                | 754                                | 2,508                              | 238                                | 41.1                               | 79.1                               | 5.7                                | 18.1                               | 2.0                                | 3.9                                | 0.4                                | 1.9                                | 0.3                                | 47.0                              | 1.34   | 53.1   | 5.9   |
|         | 117.0  | 118.0 | 3,296                              | 6,142                | 673                                | 2,129                              | 203                                | 38.4                               | 83.2                               | 6.8                                | 23.5                               | 2.7                                | 5.0                                | 0.5                                | 3.2                                | 0.5                                | 63.5                              | 1.27   | 60.2   | 9.3   |

| Hole ID        | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                | 118.0  | 119.0 | 4,093                              | 7,886                | 865                                | 2,729                              | 235                                | 43.2                               | 88.4                               | 7.3                                | 26.7                               | 3.4                                | 6.9                                | 0.7                                | 3.9                                | 0.6                                | 83.8                              | 1.61   | 56.9   | 8.6   |
|                | 119.0  | 120.0 | 1,378                              | 2,752                | 294                                | 989                                | 121                                | 26.9                               | 65.9                               | 6.7                                | 29.5                               | 4.4                                | 10.9                               | 1.2                                | 6.5                                | 0.8                                | 124.5                             | 0.58   | 53.5   | 13.2  |
|                | 120.0  | 121.0 | 991                                | 2,064                | 225                                | 765                                | 100                                | 22.9                               | 58.2                               | 6.0                                | 27.0                               | 4.0                                | 9.4                                | 1.1                                | 6.5                                | 0.9                                | 111.8                             | 0.44   | 45.9   | 11.9  |
|                | 121.0  | 122.0 | 3,812                              | 6,793                | 709                                | 2,222                              | 209                                | 39.4                               | 83.9                               | 6.3                                | 20.1                               | 1.9                                | 3.8                                | 0.3                                | 1.7                                | 0.2                                | 47.0                              | 1.39   | 58.7   | 8.5   |
|                | 122.0  | 123.0 | 4,246                              | 7,420                | 784                                | 2,403                              | 209                                | 40.2                               | 83.2                               | 6.6                                | 19.5                               | 1.8                                | 2.7                                | 0.2                                | 1.1                                | 0.2                                | 38.1                              | 1.53   | 59.1   | 8.9   |
|                | 123.0  | 124.0 | 3,718                              | 7,506                | 774                                | 2,508                              | 228                                | 44.1                               | 81.4                               | 5.9                                | 16.9                               | 1.7                                | 3.0                                | 0.3                                | 1.6                                | 0.2                                | 38.1                              | 1.49   | 62.6   | 11.8  |
|                | 124.0  | 125.0 | 4,140                              | 8,255                | 935                                | 3,021                              | 275                                | 48.2                               | 95.9                               | 7.0                                | 21.4                               | 2.2                                | 4.4                                | 0.4                                | 2.5                                | 0.4                                | 55.9                              | 1.69   | 66.1   | 14.5  |
|                | 125.0  | 126.0 | 5,407                              | 10,417               | 1,166                              | 3,686                              | 324                                | 59.3                               | 125.1                              | 10.8                               | 37.6                               | 4.8                                | 9.4                                | 0.9                                | 5.7                                | 0.8                                | 119.4                             | 2.14   | 87.4   | 13.2  |
|                | 126.0  | 127.0 | 2,498                              | 4,963                | 567                                | 1,895                              | 184                                | 33.2                               | 69.7                               | 5.5                                | 18.7                               | 2.2                                | 4.1                                | 0.4                                | 2.6                                | 0.3                                | 52.1                              | 1.03   | 45.6   | 6.7   |
|                | 127.0  | 128.0 | 1,284                              | 2,899                | 335                                | 1,149                              | 119                                | 22.2                               | 47.8                               | 3.9                                | 16.4                               | 2.2                                | 4.8                                | 0.5                                | 3.4                                | 0.5                                | 59.7                              | 0.59   | 29.2   | 5.3   |
|                | 128.0  | 129.0 | 910                                | 2,002                | 224                                | 751                                | 79                                 | 15.6                               | 34.5                               | 3.0                                | 11.9                               | 1.6                                | 3.9                                | 0.4                                | 2.5                                | 0.3                                | 45.7                              | 0.41   | 22.4   | 3.1   |
|                | 129.0  | 130.0 | 3,131                              | 6,154                | 690                                | 2,269                              | 210                                | 37.5                               | 75.7                               | 5.6                                | 17.7                               | 1.7                                | 3.0                                | 0.3                                | 1.6                                | 0.2                                | 39.4                              | 1.26   | 53     | 5.7   |
|                | 130.0  | 131.0 | 2,533                              | 5,208                | 600                                | 2,000                              | 188                                | 32.4                               | 65.0                               | 4.6                                | 14.5                               | 1.6                                | 3.1                                | 0.3                                | 1.5                                | 0.2                                | 39.4                              | 1.07   | 42.4   | 7     |
|                | 131.0  | 132.0 | 2,826                              | 5,823                | 603                                | 2,059                              | 198                                | 34.5                               | 68.7                               | 5.1                                | 17.0                               | 1.6                                | 2.9                                | 0.3                                | 1.6                                | 0.3                                | 39.4                              | 1.17   | 53.6   | 7.6   |
|                | 132.0  | 133.0 | 3,155                              | 5,528                | 518                                | 1,650                              | 158                                | 29.6                               | 67.2                               | 6.4                                | 29.5                               | 3.8                                | 9.2                                | 1.1                                | 6.3                                | 0.9                                | 111.8                             | 1.13   | 41.4   | 20.4  |
|                | 133.0  | 134.0 | 2,011                              | 3,857                | 383                                | 1,306                              | 140                                | 27.3                               | 62.5                               | 5.5                                | 25.0                               | 3.4                                | 8.0                                | 0.9                                | 5.4                                | 0.7                                | 95.2                              | 0.79   | 35.8   | 10    |
|                | 134.0  | 135.0 | 1,712                              | 3,513                | 362                                | 1,295                              | 159                                | 33.1                               | 83.3                               | 8.6                                | 39.4                               | 5.8                                | 14.9                               | 1.6                                | 10.1                               | 1.3                                | 165.1                             | 0.74   | 38.5   | 8.9   |
|                | 135.0  | 136.0 | 2,369                              | 4,729                | 491                                | 1,732                              | 198                                | 40.8                               | 98.2                               | 9.7                                | 43.3                               | 6.2                                | 14.6                               | 1.6                                | 8.3                                | 1.2                                | 167.6                             | 0.99   | 44.6   | 9.8   |
|                | 136.0  | 137.0 | 2,246                              | 4,508                | 460                                | 1,615                              | 187                                | 38.8                               | 93.6                               | 9.2                                | 40.3                               | 5.5                                | 13.7                               | 1.4                                | 8.1                                | 1.0                                | 157.5                             | 0.94   | 43.8   | 8.7   |
|                | 137.0  | 138.0 | 2,627                              | 5,147                | 533                                | 1,843                              | 209                                | 42.6                               | 95.1                               | 7.7                                | 29.8                               | 3.5                                | 7.4                                | 0.8                                | 4.8                                | 0.5                                | 97.8                              | 1.06   | 61.1   | 10.5  |
|                | 138.0  | 139.0 | 2,035                              | 4,226                | 442                                | 1,563                              | 176                                | 32.8                               | 72.7                               | 6.0                                | 22.4                               | 2.8                                | 5.4                                | 0.5                                | 2.7                                | 0.4                                | 68.6                              | 0.87   | 52.7   | 10.8  |
|                | 139.0  | 140.0 | 1,818                              | 3,697                | 384                                | 1,365                              | 174                                | 36.6                               | 87.4                               | 8.6                                | 37.9                               | 5.3                                | 12.1                               | 1.2                                | 6.5                                | 0.9                                | 144.8                             | 0.78   | 39.9   | 7.6   |
|                | 140.0  | 141.0 | 1,660                              | 3,366                | 333                                | 1,163                              | 139                                | 30.1                               | 73.8                               | 7.4                                | 33.3                               | 5.0                                | 11.9                               | 1.4                                | 7.6                                | 1.1                                | 137.2                             | 0.70   | 39.2   | 6.9   |
|                | 141.0  | 142.0 | 1,478                              | 3,218                | 321                                | 1,140                              | 136                                | 28.7                               | 71.2                               | 7.1                                | 32.9                               | 4.4                                | 9.6                                | 1.0                                | 5.7                                | 0.7                                | 124.5                             | 0.66   | 35.4   | 6     |
|                | 142.0  | 143.0 | 2,955                              | 5,196                | 488                                | 1,557                              | 155                                | 31.2                               | 72.6                               | 7.2                                | 31.9                               | 4.3                                | 9.3                                | 1.0                                | 5.0                                | 0.6                                | 115.6                             | 1.06   | 33.8   | 7.3   |
|                | 143.0  | 144.0 | 3,929                              | 6,940                | 658                                | 2,076                              | 184                                | 33.0                               | 71.8                               | 6.2                                | 25.9                               | 3.5                                | 8.1                                | 0.8                                | 4.7                                | 0.6                                | 97.8                              | 1.40   | 42.1   | 20.2  |
|                | 144.0  | 145.0 | 3,143                              | 6,388                | 665                                | 2,286                              | 216                                | 37.1                               | 73.0                               | 5.5                                | 21.1                               | 2.7                                | 5.7                                | 0.7                                | 3.8                                | 0.5                                | 73.7                              | 1.29   | 51     | 11    |
|                | 145.0  | 146.0 | 2,674                              | 5,773                | 617                                | 2,187                              | 214                                | 35.6                               | 72.7                               | 5.5                                | 22.3                               | 2.9                                | 6.2                                | 0.7                                | 3.9                                | 0.5                                | 77.5                              | 1.17   | 53.2   | 8.2   |
|                | 146.0  | 147.0 | 3,929                              | 8,488                | 913                                | 3,114                              | 263                                | 39.5                               | 69.6                               | 4.2                                | 12.7                               | 1.3                                | 2.4                                | 0.2                                | 1.4                                | 0.2                                | 29.2                              | 1.69   | 42.2   | 9.9   |
| <b>KGKRC37</b> | 0.0    | 1.0   | 8,960                              | 17,505               | 1,710                              | 5,167                              | 362                                | 57.3                               | 95.1                               | 6.8                                | 21.4                               | 2.2                                | 3.1                                | 0.3                                | 1.3                                | 0.2                                | 43.2                              | 3.39   | 63.9   | 5.1   |
|                | 1.0    | 2.0   | 3,800                              | 7,751                | 772                                | 2,403                              | 193                                | 32.3                               | 60.6                               | 5.1                                | 16.1                               | 1.7                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 36.8                              | 1.51   | 52.8   | 6.2   |
|                | 2.0    | 3.0   | 1,794                              | 3,783                | 411                                | 1,411                              | 151                                | 28.5                               | 56.5                               | 4.8                                | 16.9                               | 2.2                                | 4.2                                | 0.5                                | 3.2                                | 0.5                                | 49.5                              | 0.77   | 32.6   | 8.7   |
|                | 3.0    | 4.0   | 6,767                              | 13,144               | 1,281                              | 4,082                              | 296                                | 50.4                               | 88.9                               | 6.4                                | 19.9                               | 1.9                                | 3.1                                | 0.2                                | 1.4                                | 0.2                                | 39.4                              | 2.58   | 61.8   | 7.6   |
|                | 4.0    | 5.0   | 5,653                              | 13,574               | 1,583                              | 5,400                              | 445                                | 66.6                               | 101.4                              | 5.5                                | 15.0                               | 1.5                                | 2.4                                | 0.2                                | 0.9                                | 0.2                                | 29.2                              | 2.69   | 46.3   | 6.9   |
|                | 5.0    | 6.0   | 8,855                              | 22,173               | 2,622                              | 9,051                              | 777                                | 120.4                              | 186.7                              | 10.4                               | 27.9                               | 2.8                                | 3.8                                | 0.3                                | 1.5                                | 0.2                                | 50.8                              | 4.39   | 105    | 2.1   |
|                | 6.0    | 7.0   | 6,145                              | 13,082               | 1,377                              | 4,386                              | 347                                | 54.4                               | 86.8                               | 5.4                                | 16.1                               | 1.7                                | 2.6                                | 0.3                                | 1.4                                | 0.2                                | 35.6                              | 2.55   | 46.6   | 9.4   |
|                | 7.0    | 8.0   | 6,122                              | 12,026               | 1,202                              | 3,732                              | 271                                | 41.6                               | 70.8                               | 4.4                                | 12.1                               | 1.2                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 29.2                              | 2.35   | 38.8   | 10.8  |
|                | 8.0    | 9.0   | 12,959                             | 25,796               | 2,561                              | 7,990                              | 576                                | 86.6                               | 141.8                              | 9.4                                | 27.8                               | 2.8                                | 4.1                                | 0.3                                | 1.5                                | 0.2                                | 55.9                              | 5.02   | 92     | 8.7   |
|                | 9.0    | 10.0  | 9,476                              | 18,733               | 1,909                              | 5,844                              | 443                                | 70.8                               | 115.8                              | 7.7                                | 23.4                               | 2.5                                | 4.2                                | 0.3                                | 2.1                                | 0.3                                | 54.6                              | 3.67   | 71.7   | 12.6  |
|                | 10.0   | 11.0  | 9,781                              | 17,935               | 1,746                              | 5,179                              | 368                                | 57.9                               | 97.9                               | 6.9                                | 24.6                               | 3.1                                | 6.1                                | 0.6                                | 3.5                                | 0.5                                | 76.2                              | 3.53   | 48.1   | 5.7   |
|                | 11.0   | 12.0  | 7,764                              | 16,399               | 1,698                              | 5,354                              | 409                                | 63.9                               | 103.7                              | 5.9                                | 17.9                               | 1.8                                | 3.1                                | 0.3                                | 1.5                                | 0.2                                | 36.8                              | 3.19   | 64.5   | 6.1   |
|                | 12.0   | 13.0  | 6,779                              | 14,557               | 1,540                              | 4,864                              | 384                                | 63.9                               | 105.0                              | 6.8                                | 20.7                               | 2.3                                | 3.8                                | 0.3                                | 1.6                                | 0.3                                | 47.0                              | 2.84   | 64.7   | 7.6   |
|                | 13.0   | 14.0  | 5,946                              | 12,468               | 1,281                              | 4,036                              | 308                                | 50.3                               | 85.1                               | 5.9                                | 18.8                               | 2.3                                | 4.2                                | 0.4                                | 2.2                                | 0.3                                | 48.3                              | 2.43   | 52.7   | 8.2   |
|                | 14.0   | 15.0  | 6,884                              | 14,127               | 1,408                              | 4,631                              | 353                                | 60.1                               | 102.5                              | 7.0                                | 19.7                               | 2.1                                | 3.7                                | 0.4                                | 1.7                                | 0.2                                | 41.9                              | 2.76   | 71.7   | 2     |
|                | 15.0   | 16.0  | 8,456                              | 17,750               | 1,867                              | 5,879                              | 475                                | 79.2                               | 134.9                              | 8.9                                | 26.1                               | 2.6                                | 3.9                                | 0.4                                | 1.8                                | 0.3                                | 52.1                              | 3.47   | 91.6   | 1.5   |
|                | 16.0   | 17.0  | 12,138                             | 25,428               | 2,682                              | 8,468                              | 677                                | 111.6                              | 184.4                              | 11.7                               | 34.0                               | 3.5                                | 5.4                                | 0.5                                | 2.4                                | 0.3                                | 69.8                              | 4.98   | 121    | 2.5   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 17.0   | 18.0 | 11,963                             | 26,165               | 2,767                              | 8,900                              | 659                                | 106.9                              | 172.9                              | 10.5                               | 30.0                               | 3.2                                | 4.9                                | 0.4                                | 2.1                                | 0.3                                | 62.2                              | 5.08   | 94.3   | 2.6   |
|         | 18.0   | 19.0 | 14,425                             | 30,587               | 3,165                              | 10,148                             | 802                                | 130.3                              | 216.1                              | 13.5                               | 38.5                               | 3.8                                | 5.7                                | 0.4                                | 2.1                                | 0.3                                | 76.2                              | 5.96   | 150    | 1.6   |
|         | 19.0   | 20.0 | 15,657                             | 32,184               | 3,310                              | 10,358                             | 806                                | 137.8                              | 235.1                              | 15.7                               | 47.1                               | 4.9                                | 8.1                                | 0.7                                | 3.5                                | 0.5                                | 101.6                             | 6.29   | 173.5  | 5.9   |
|         | 20.0   | 21.0 | 5,934                              | 11,264               | 1,116                              | 3,371                              | 244                                | 39.3                               | 62.6                               | 4.2                                | 12.4                               | 1.4                                | 2.4                                | 0.2                                | 1.4                                | 0.2                                | 27.9                              | 2.21   | 29.2   | 11.8  |
|         | 21.0   | 22.0 | 7,799                              | 14,434               | 1,395                              | 4,094                              | 282                                | 44.1                               | 72.2                               | 5.0                                | 15.2                               | 1.6                                | 2.9                                | 0.3                                | 1.3                                | 0.2                                | 34.3                              | 2.82   | 33     | 6     |
|         | 22.0   | 23.0 | 6,837                              | 12,960               | 1,244                              | 3,697                              | 254                                | 39.8                               | 65.6                               | 4.1                                | 12.9                               | 1.4                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 2.51   | 35.2   | 8.2   |
|         | 23.0   | 24.0 | 10,039                             | 20,576               | 2,126                              | 6,497                              | 493                                | 80.5                               | 132.6                              | 8.1                                | 22.8                               | 2.2                                | 3.2                                | 0.2                                | 1.1                                | 0.2                                | 43.2                              | 4.00   | 82.5   | 4.1   |
|         | 24.0   | 25.0 | 9,406                              | 19,962               | 2,048                              | 6,415                              | 508                                | 84.3                               | 143.5                              | 9.6                                | 27.3                               | 2.7                                | 3.8                                | 0.3                                | 1.5                                | 0.2                                | 52.1                              | 3.87   | 118.5  | 1.4   |
|         | 25.0   | 26.0 | 7,963                              | 16,153               | 1,589                              | 5,051                              | 362                                | 62.6                               | 102.9                              | 7.4                                | 20.0                               | 2.2                                | 3.3                                | 0.3                                | 1.4                                | 0.1                                | 39.4                              | 3.14   | 60.2   | 1.1   |
|         | 26.0   | 27.0 | 7,811                              | 15,724               | 1,601                              | 4,876                              | 365                                | 62.5                               | 105.6                              | 7.3                                | 21.7                               | 2.4                                | 3.8                                | 0.4                                | 1.9                                | 0.3                                | 48.3                              | 3.06   | 61.8   | 1.1   |
|         | 27.0   | 28.0 | 7,869                              | 15,232               | 1,498                              | 4,526                              | 333                                | 56.2                               | 99.9                               | 7.3                                | 23.1                               | 2.5                                | 4.1                                | 0.3                                | 1.7                                | 0.2                                | 52.1                              | 2.97   | 56.2   | 1.3   |
|         | 28.0   | 29.0 | 7,236                              | 14,618               | 1,486                              | 4,596                              | 342                                | 55.9                               | 92.7                               | 6.1                                | 16.1                               | 1.7                                | 2.6                                | 0.2                                | 1.0                                | 0.2                                | 33.0                              | 2.85   | 56.8   | 4.1   |
|         | 29.0   | 30.0 | 8,432                              | 17,075               | 1,722                              | 5,202                              | 399                                | 66.7                               | 114.2                              | 7.7                                | 23.4                               | 2.4                                | 3.3                                | 0.3                                | 1.4                                | 0.2                                | 49.5                              | 3.31   | 81.6   | 1.4   |
|         | 30.0   | 31.0 | 6,462                              | 12,653               | 1,214                              | 3,779                              | 274                                | 47.6                               | 75.0                               | 5.7                                | 17.0                               | 1.7                                | 2.6                                | 0.2                                | 1.0                                | 0.2                                | 35.6                              | 2.46   | 56.1   | 3.3   |
|         | 31.0   | 32.0 | 5,688                              | 11,277               | 1,104                              | 3,464                              | 242                                | 40.6                               | 60.7                               | 4.0                                | 11.4                               | 1.2                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.19   | 36.7   | 6.4   |
|         | 32.0   | 33.0 | 5,794                              | 11,215               | 1,108                              | 3,476                              | 223                                | 35.9                               | 52.7                               | 3.5                                | 10.4                               | 1.1                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 22.9                              | 2.19   | 32.1   | 6.6   |
|         | 33.0   | 34.0 | 6,087                              | 11,289               | 1,066                              | 3,243                              | 212                                | 34.0                               | 50.3                               | 3.3                                | 9.6                                | 1.1                                | 1.7                                | 0.2                                | 1.0                                | 0.1                                | 22.9                              | 2.20   | 26.1   | 7.6   |
|         | 34.0   | 35.0 | 6,298                              | 13,451               | 1,389                              | 4,526                              | 315                                | 50.5                               | 75.0                               | 5.1                                | 14.2                               | 1.4                                | 2.4                                | 0.2                                | 1.0                                | 0.2                                | 29.2                              | 2.62   | 49.9   | 2.6   |
|         | 35.0   | 36.0 | 5,512                              | 11,731               | 1,232                              | 4,036                              | 274                                | 43.5                               | 64.0                               | 4.4                                | 13.2                               | 1.3                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 2.29   | 44.2   | 4.6   |
|         | 36.0   | 37.0 | 6,099                              | 11,940               | 1,179                              | 3,628                              | 239                                | 38.9                               | 57.5                               | 4.2                                | 12.2                               | 1.3                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 26.7                              | 2.32   | 37.8   | 6.3   |
|         | 37.0   | 38.0 | 8,526                              | 16,399               | 1,583                              | 4,864                              | 325                                | 52.7                               | 75.8                               | 5.2                                | 14.6                               | 1.5                                | 2.4                                | 0.2                                | 1.0                                | 0.2                                | 31.8                              | 3.19   | 45.1   | 2.9   |
|         | 38.0   | 39.0 | 15,246                             | 28,253               | 2,767                              | 8,410                              | 516                                | 80.1                               | 111.5                              | 6.7                                | 18.7                               | 1.8                                | 2.7                                | 0.2                                | 1.1                                | 0.2                                | 35.6                              | 5.55   | 48.7   | 0.8   |
|         | 39.0   | 40.0 | 10,637                             | 20,391               | 2,006                              | 6,135                              | 402                                | 66.4                               | 95.4                               | 6.0                                | 17.3                               | 1.7                                | 2.6                                | 0.2                                | 1.3                                | 0.1                                | 34.3                              | 3.98   | 52.9   | 1.3   |
|         | 40.0   | 41.0 | 7,283                              | 14,004               | 1,353                              | 4,152                              | 291                                | 48.6                               | 74.3                               | 5.1                                | 14.6                               | 1.5                                | 2.6                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 2.73   | 45.1   | 0.6   |
|         | 41.0   | 42.0 | 7,142                              | 13,512               | 1,281                              | 3,919                              | 249                                | 39.7                               | 57.3                               | 3.7                                | 10.7                               | 1.1                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 2.62   | 30.6   | 4.7   |
|         | 42.0   | 43.0 | 6,685                              | 12,775               | 1,244                              | 3,849                              | 264                                | 45.5                               | 67.9                               | 4.6                                | 13.3                               | 1.4                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 2.50   | 39.7   | 5     |
|         | 43.0   | 44.0 | 6,392                              | 12,530               | 1,226                              | 3,837                              | 270                                | 45.0                               | 67.7                               | 4.6                                | 13.0                               | 1.4                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 26.7                              | 2.44   | 45     | 7.1   |
|         | 44.0   | 45.0 | 7,213                              | 13,881               | 1,317                              | 3,977                              | 256                                | 43.3                               | 65.2                               | 5.0                                | 15.2                               | 1.5                                | 2.5                                | 0.2                                | 1.1                                | 0.2                                | 34.3                              | 2.68   | 43.8   | 3.8   |
|         | 45.0   | 46.0 | 15,305                             | 29,604               | 2,851                              | 8,608                              | 500                                | 79.3                               | 117.0                              | 8.6                                | 25.0                               | 2.5                                | 3.9                                | 0.3                                | 1.4                                | 0.2                                | 52.1                              | 5.72   | 81     | 1.1   |
|         | 46.0   | 47.0 | 7,013                              | 13,820               | 1,341                              | 4,141                              | 291                                | 50.7                               | 75.7                               | 5.1                                | 14.5                               | 1.6                                | 2.9                                | 0.2                                | 1.4                                | 0.2                                | 31.8                              | 2.68   | 50.4   | 1     |
|         | 47.0   | 48.0 | 13,253                             | 24,814               | 2,320                              | 6,870                              | 392                                | 63.1                               | 89.4                               | 6.0                                | 16.9                               | 1.8                                | 3.0                                | 0.2                                | 1.1                                | 0.2                                | 34.3                              | 4.79   | 43     | 4.1   |
|         | 48.0   | 49.0 | 10,743                             | 19,163               | 1,716                              | 5,039                              | 310                                | 50.3                               | 76.0                               | 5.7                                | 16.5                               | 1.7                                | 2.7                                | 0.2                                | 1.1                                | 0.1                                | 35.6                              | 3.72   | 46.4   | 4     |
|         | 49.0   | 50.0 | 10,977                             | 18,487               | 1,637                              | 4,631                              | 275                                | 45.9                               | 67.4                               | 5.3                                | 16.8                               | 1.8                                | 3.0                                | 0.2                                | 1.5                                | 0.2                                | 39.4                              | 3.62   | 40.6   | 3.2   |
|         | 50.0   | 51.0 | 13,370                             | 26,165               | 2,586                              | 8,048                              | 548                                | 90.0                               | 131.4                              | 9.3                                | 28.5                               | 2.9                                | 4.9                                | 0.4                                | 2.1                                | 0.3                                | 67.3                              | 5.11   | 73     | 1.4   |
|         | 51.0   | 52.0 | 11,845                             | 21,251               | 1,975                              | 5,727                              | 357                                | 61.0                               | 94.9                               | 7.7                                | 23.3                               | 2.5                                | 4.2                                | 0.3                                | 2.2                                | 0.3                                | 55.9                              | 4.14   | 73.3   | 3.4   |
|         | 52.0   | 53.0 | 8,608                              | 15,601               | 1,420                              | 4,199                              | 260                                | 43.0                               | 64.9                               | 4.6                                | 13.5                               | 1.5                                | 2.4                                | 0.2                                | 1.1                                | 0.1                                | 31.8                              | 3.03   | 39.7   | 3.7   |
|         | 53.0   | 54.0 | 10,297                             | 19,654               | 1,855                              | 5,540                              | 368                                | 63.0                               | 94.7                               | 6.6                                | 19.1                               | 2.1                                | 3.7                                | 0.3                                | 1.8                                | 0.2                                | 43.2                              | 3.79   | 59.7   | 2.9   |
|         | 54.0   | 55.0 | 8,632                              | 16,153               | 1,504                              | 4,502                              | 302                                | 49.7                               | 77.2                               | 5.8                                | 17.8                               | 2.0                                | 3.5                                | 0.3                                | 1.7                                | 0.2                                | 45.7                              | 3.13   | 53.1   | 1.8   |
|         | 55.0   | 56.0 | 11,517                             | 20,269               | 1,861                              | 5,470                              | 365                                | 65.8                               | 104.0                              | 8.1                                | 24.0                               | 2.3                                | 3.4                                | 0.2                                | 1.1                                | 0.1                                | 47.0                              | 3.97   | 73     | 1.1   |
|         | 56.0   | 57.0 | 14,132                             | 24,138               | 2,205                              | 6,392                              | 419                                | 74.0                               | 116.4                              | 9.4                                | 28.0                               | 2.9                                | 4.5                                | 0.3                                | 1.7                                | 0.2                                | 59.7                              | 4.76   | 76     | 1.7   |
|         | 57.0   | 58.0 | 12,725                             | 23,401               | 2,205                              | 6,660                              | 434                                | 71.4                               | 107.0                              | 7.4                                | 22.2                               | 2.4                                | 4.0                                | 0.3                                | 1.8                                | 0.3                                | 50.8                              | 4.57   | 71     | 1.9   |
|         | 58.0   | 59.0 | 9,113                              | 16,891               | 1,595                              | 4,887                              | 322                                | 54.0                               | 83.5                               | 6.3                                | 19.5                               | 2.2                                | 3.9                                | 0.4                                | 2.1                                | 0.3                                | 52.1                              | 3.30   | 53.7   | 2.1   |
|         | 59.0   | 60.0 | 8,644                              | 17,198               | 1,667                              | 4,911                              | 311                                | 48.5                               | 83.2                               | 5.5                                | 15.8                               | 1.7                                | 2.5                                | 0.2                                | 1.1                                | 0.2                                | 33.0                              | 3.29   | 46.2   | 3.7   |
|         | 60.0   | 61.0 | 15,716                             | 29,973               | 2,815                              | 8,281                              | 525                                | 82.1                               | 140.6                              | 9.0                                | 24.0                               | 2.3                                | 3.2                                | 0.3                                | 1.0                                | 0.1                                | 41.9                              | 5.76   | 78.2   | 1     |
|         | 61.0   | 62.0 | 7,002                              | 14,618               | 1,456                              | 4,304                              | 275                                | 41.8                               | 71.9                               | 4.9                                | 14.0                               | 1.6                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 31.8                              | 2.78   | 36.3   | 5.6   |
|         | 62.0   | 63.0 | 12,901                             | 24,937               | 2,350                              | 6,777                              | 434                                | 69.4                               | 121.0                              | 8.4                                | 22.5                               | 2.2                                | 3.1                                | 0.3                                | 1.1                                | 0.2                                | 43.2                              | 4.77   | 77.3   | 0.8   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 63.0   | 64.0  | 8,913                              | 18,119               | 1,788                              | 5,342                              | 370                                | 58.2                               | 102.6                              | 7.2                                | 18.8                               | 1.9                                | 2.9                                | 0.2                                | 1.1                                | 0.1                                | 36.8                              | 3.48   | 70.5   | 0.8   |
|         | 64.0   | 65.0  | 6,708                              | 14,004               | 1,402                              | 3,989                              | 288                                | 46.8                               | 86.2                               | 6.3                                | 17.2                               | 1.8                                | 2.4                                | 0.3                                | 1.3                                | 0.1                                | 35.6                              | 2.66   | 60.2   | 1.6   |
|         | 65.0   | 66.0  | 10,004                             | 20,330               | 1,994                              | 5,727                              | 355                                | 55.7                               | 95.2                               | 6.3                                | 17.7                               | 1.9                                | 2.6                                | 0.2                                | 1.0                                | 0.2                                | 34.3                              | 3.86   | 48.7   | 1.3   |
|         | 66.0   | 67.0  | 9,769                              | 20,084               | 1,945                              | 5,762                              | 368                                | 56.2                               | 98.6                               | 6.6                                | 18.4                               | 1.9                                | 2.6                                | 0.3                                | 1.4                                | 0.2                                | 39.4                              | 3.82   | 63.3   | 1     |
|         | 67.0   | 68.0  | 11,787                             | 24,322               | 2,362                              | 7,138                              | 466                                | 73.1                               | 126.8                              | 8.3                                | 22.0                               | 2.1                                | 3.2                                | 0.3                                | 1.5                                | 0.2                                | 40.6                              | 4.64   | 82.4   | 1.2   |
|         | 68.0   | 69.0  | 9,312                              | 19,102               | 1,843                              | 5,552                              | 377                                | 59.6                               | 106.3                              | 7.6                                | 20.7                               | 2.1                                | 3.2                                | 0.3                                | 1.3                                | 0.2                                | 40.6                              | 3.64   | 69.7   | 1.1   |
|         | 69.0   | 70.0  | 9,347                              | 19,163               | 1,861                              | 5,645                              | 390                                | 62.5                               | 112.2                              | 7.7                                | 20.8                               | 2.1                                | 3.1                                | 0.3                                | 1.4                                | 0.2                                | 41.9                              | 3.67   | 80.1   | 0.9   |
|         | 70.0   | 71.0  | 10,743                             | 22,234               | 2,175                              | 6,602                              | 446                                | 72.3                               | 132.0                              | 9.4                                | 26.1                               | 2.6                                | 3.5                                | 0.4                                | 1.6                                | 0.2                                | 52.1                              | 4.25   | 111    | 1.1   |
|         | 71.0   | 72.0  | 9,089                              | 19,040               | 1,921                              | 5,797                              | 391                                | 61.0                               | 109.3                              | 7.7                                | 21.2                               | 2.0                                | 2.9                                | 0.2                                | 1.4                                | 0.2                                | 41.9                              | 3.65   | 84     | 1.3   |
|         | 72.0   | 73.0  | 8,960                              | 18,856               | 1,879                              | 5,610                              | 387                                | 61.8                               | 114.5                              | 8.0                                | 22.7                               | 2.2                                | 3.0                                | 0.2                                | 1.3                                | 0.2                                | 43.2                              | 3.59   | 91.9   | 1.1   |
|         | 73.0   | 74.0  | 7,389                              | 15,724               | 1,607                              | 4,887                              | 353                                | 55.6                               | 105.7                              | 8.3                                | 23.4                               | 2.4                                | 3.4                                | 0.3                                | 1.8                                | 0.3                                | 53.3                              | 3.02   | 103    | 3.7   |
|         | 74.0   | 75.0  | 4,140                              | 9,102                | 940                                | 2,729                              | 183                                | 28.0                               | 51.9                               | 4.1                                | 11.0                               | 1.2                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 26.7                              | 1.72   | 41     | 8.2   |
|         | 75.0   | 76.0  | 4,926                              | 11,006               | 1,130                              | 3,278                              | 213                                | 31.6                               | 55.3                               | 4.0                                | 12.2                               | 1.3                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 26.7                              | 2.07   | 33     | 4.6   |
|         | 76.0   | 77.0  | 3,073                              | 6,732                | 668                                | 2,088                              | 146                                | 22.4                               | 40.3                               | 3.1                                | 9.2                                | 1.0                                | 1.5                                | 0.2                                | 0.9                                | 0.2                                | 20.3                              | 1.28   | 29.5   | 9.5   |
|         | 77.0   | 78.0  | 7,999                              | 16,829               | 1,637                              | 4,794                              | 282                                | 44.5                               | 80.2                               | 6.1                                | 16.5                               | 1.6                                | 2.4                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 3.17   | 69     | 6.8   |
|         | 78.0   | 79.0  | 1,742                              | 3,894                | 391                                | 1,242                              | 94                                 | 14.8                               | 28.0                               | 2.1                                | 6.3                                | 0.7                                | 1.3                                | 0.2                                | 0.8                                | 0.1                                | 16.5                              | 0.74   | 23.7   | 10.8  |
|         | 79.0   | 80.0  | 4,093                              | 8,771                | 906                                | 2,694                              | 191                                | 29.9                               | 52.3                               | 3.8                                | 10.6                               | 1.1                                | 1.6                                | 0.2                                | 0.8                                | 0.2                                | 21.6                              | 1.68   | 36.1   | 6.7   |
|         | 80.0   | 81.0  | 2,234                              | 4,840                | 470                                | 1,452                              | 100                                | 15.2                               | 26.5                               | 1.9                                | 5.9                                | 0.8                                | 1.4                                | 0.2                                | 0.9                                | 0.1                                | 15.2                              | 0.92   | 12.6   | 6.8   |
|         | 81.0   | 82.0  | 1,876                              | 4,054                | 400                                | 1,254                              | 87                                 | 13.1                               | 22.1                               | 1.6                                | 5.2                                | 0.6                                | 1.1                                | 0.1                                | 0.7                                | 0.1                                | 14.0                              | 0.77   | 14.8   | 11    |
|         | 82.0   | 83.0  | 9,840                              | 20,514               | 1,951                              | 5,564                              | 321                                | 49.4                               | 90.7                               | 6.9                                | 21.1                               | 2.3                                | 4.0                                | 0.4                                | 2.6                                | 0.4                                | 57.2                              | 3.84   | 64     | 5.8   |
|         | 83.0   | 84.0  | 5,629                              | 12,137               | 1,226                              | 3,558                              | 275                                | 45.0                               | 86.7                               | 6.9                                | 22.3                               | 2.6                                | 4.4                                | 0.5                                | 2.3                                | 0.3                                | 67.3                              | 2.31   | 73.1   | 2.6   |
|         | 84.0   | 85.0  | 3,882                              | 9,041                | 954                                | 2,881                              | 203                                | 32.2                               | 57.8                               | 4.5                                | 13.2                               | 1.5                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 33.0                              | 1.71   | 40.6   | 8.5   |
|         | 85.0   | 86.0  | 3,202                              | 7,112                | 712                                | 2,239                              | 170                                | 27.1                               | 49.5                               | 3.6                                | 10.2                               | 1.2                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 26.7                              | 1.36   | 32     | 10.2  |
|         | 86.0   | 87.0  | 5,266                              | 11,117               | 1,131                              | 3,336                              | 238                                | 37.5                               | 68.8                               | 4.9                                | 14.2                               | 1.6                                | 2.5                                | 0.3                                | 1.5                                | 0.2                                | 36.8                              | 2.13   | 61.8   | 4.9   |
|         | 87.0   | 88.0  | 5,454                              | 11,719               | 1,192                              | 3,499                              | 249                                | 39.0                               | 72.5                               | 5.8                                | 17.5                               | 2.2                                | 4.5                                | 0.4                                | 2.2                                | 0.3                                | 58.4                              | 2.23   | 46.9   | 7     |
|         | 88.0   | 89.0  | 5,618                              | 12,407               | 1,269                              | 3,802                              | 290                                | 45.6                               | 83.0                               | 6.2                                | 18.1                               | 2.2                                | 4.0                                | 0.5                                | 2.3                                | 0.3                                | 54.6                              | 2.36   | 50.5   | 8.5   |
|         | 89.0   | 90.0  | 6,814                              | 12,898               | 1,257                              | 3,779                              | 219                                | 35.9                               | 55.8                               | 4.5                                | 13.3                               | 1.5                                | 2.7                                | 0.3                                | 1.8                                | 0.3                                | 38.1                              | 2.51   | 36.4   | 6.9   |
|         | 90.0   | 91.0  | 5,442                              | 10,957               | 1,135                              | 3,686                              | 253                                | 41.9                               | 66.2                               | 5.3                                | 16.3                               | 2.0                                | 4.1                                | 0.5                                | 2.5                                | 0.4                                | 57.2                              | 2.17   | 54.9   | 7.3   |
|         | 91.0   | 92.0  | 6,181                              | 13,758               | 1,516                              | 5,109                              | 393                                | 68.8                               | 111.5                              | 8.0                                | 21.8                               | 2.4                                | 4.1                                | 0.4                                | 1.8                                | 0.3                                | 59.7                              | 2.72   | 78.7   | 4.7   |
|         | 92.0   | 93.0  | 5,911                              | 13,697               | 1,559                              | 5,517                              | 451                                | 79.4                               | 128.5                              | 9.3                                | 25.5                               | 2.7                                | 4.8                                | 0.5                                | 2.2                                | 0.3                                | 71.1                              | 2.75   | 119    | 1.2   |
|         | 93.0   | 94.0  | 5,981                              | 12,960               | 1,389                              | 4,689                              | 353                                | 62.0                               | 99.8                               | 7.5                                | 21.4                               | 2.6                                | 4.8                                | 0.5                                | 2.7                                | 0.4                                | 69.8                              | 2.56   | 83.5   | 2.4   |
|         | 94.0   | 95.0  | 5,020                              | 10,343               | 1,086                              | 3,569                              | 244                                | 40.1                               | 60.1                               | 4.4                                | 11.7                               | 1.3                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 25.4                              | 2.04   | 39.5   | 6.2   |
|         | 95.0   | 96.0  | 2,187                              | 4,668                | 498                                | 1,680                              | 120                                | 19.5                               | 30.9                               | 2.4                                | 7.4                                | 0.8                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 19.1                              | 0.92   | 18.8   | 11.2  |
|         | 96.0   | 97.0  | 3,565                              | 7,051                | 714                                | 2,309                              | 151                                | 24.7                               | 38.8                               | 2.8                                | 8.2                                | 0.9                                | 1.6                                | 0.2                                | 1.0                                | 0.2                                | 20.3                              | 1.39   | 21.2   | 9.1   |
|         | 97.0   | 98.0  | 4,785                              | 9,741                | 1,003                              | 3,266                              | 219                                | 39.0                               | 65.9                               | 6.2                                | 19.1                               | 2.3                                | 4.7                                | 0.5                                | 3.0                                | 0.4                                | 64.8                              | 1.92   | 65.8   | 6.8   |
|         | 98.0   | 99.0  | 4,234                              | 8,832                | 907                                | 2,869                              | 181                                | 30.6                               | 49.8                               | 4.2                                | 12.6                               | 1.4                                | 2.5                                | 0.3                                | 1.9                                | 0.3                                | 36.8                              | 1.72   | 39.3   | 8.5   |
|         | 99.0   | 100.0 | 5,289                              | 10,601               | 1,048                              | 3,301                              | 217                                | 37.8                               | 64.3                               | 5.4                                | 16.9                               | 2.0                                | 3.5                                | 0.4                                | 2.2                                | 0.4                                | 50.8                              | 2.06   | 58.6   | 7.6   |
|         | 100.0  | 101.0 | 1,124                              | 2,543                | 282                                | 1,008                              | 100                                | 21.8                               | 45.8                               | 5.3                                | 21.7                               | 3.3                                | 7.8                                | 0.9                                | 5.7                                | 0.8                                | 88.9                              | 0.53   | 21.3   | 11.6  |
|         | 101.0  | 102.0 | 1,964                              | 4,103                | 424                                | 1,365                              | 93                                 | 16.3                               | 29.6                               | 2.9                                | 9.3                                | 1.2                                | 2.2                                | 0.2                                | 1.5                                | 0.2                                | 29.2                              | 0.80   | 26.7   | 9.2   |
|         | 102.0  | 103.0 | 4,750                              | 9,901                | 1,033                              | 3,429                              | 249                                | 45.9                               | 80.6                               | 7.3                                | 20.7                               | 2.2                                | 4.1                                | 0.5                                | 2.5                                | 0.4                                | 59.7                              | 1.96   | 81.6   | 7     |
|         | 103.0  | 104.0 | 10,262                             | 22,111               | 2,404                              | 7,792                              | 537                                | 89.6                               | 136.0                              | 8.9                                | 23.1                               | 2.4                                | 4.0                                | 0.4                                | 2.4                                | 0.3                                | 57.2                              | 4.34   | 97.6   | 1.5   |
|         | 104.0  | 105.0 | 7,588                              | 15,109               | 1,553                              | 4,934                              | 330                                | 57.6                               | 97.9                               | 8.9                                | 29.3                               | 3.4                                | 6.8                                | 0.7                                | 3.9                                | 0.5                                | 102.9                             | 2.98   | 93.8   | 2.8   |
|         | 105.0  | 106.0 | 5,594                              | 11,547               | 1,189                              | 3,849                              | 266                                | 45.6                               | 77.2                               | 7.0                                | 21.4                               | 2.5                                | 4.6                                | 0.4                                | 2.4                                | 0.3                                | 67.3                              | 2.27   | 71     | 4.5   |
|         | 106.0  | 107.0 | 4,363                              | 8,955                | 929                                | 3,044                              | 204                                | 31.8                               | 48.2                               | 3.5                                | 10.2                               | 1.0                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.76   | 31.8   | 6.1   |
|         | 107.0  | 108.0 | 5,477                              | 11,301               | 1,154                              | 3,674                              | 241                                | 40.9                               | 67.9                               | 5.3                                | 15.8                               | 1.9                                | 3.5                                | 0.4                                | 2.2                                | 0.3                                | 48.3                              | 2.20   | 61.2   | 5.2   |
|         | 108.0  | 109.0 | 4,750                              | 9,410                | 956                                | 3,079                              | 197                                | 32.8                               | 51.2                               | 4.1                                | 11.8                               | 1.4                                | 2.4                                | 0.3                                | 1.5                                | 0.2                                | 33.0                              | 1.85   | 39.5   | 5     |



| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 109.0  | 110.0 | 7,565                              | 14,741               | 1,480                              | 4,736                              | 304                                | 50.4                               | 81.3                               | 6.5                                | 18.8                               | 2.1                                | 3.8                                | 0.4                                | 1.9                                | 0.3                                | 54.6                              | 2.90   | 73.6   | 3.9   |
|         | 110.0  | 111.0 | 7,178                              | 14,127               | 1,426                              | 4,467                              | 281                                | 46.9                               | 71.6                               | 6.0                                | 17.5                               | 2.0                                | 4.0                                | 0.4                                | 2.3                                | 0.3                                | 54.6                              | 2.77   | 48     | 5.4   |
|         | 111.0  | 112.0 | 5,266                              | 10,355               | 1,043                              | 3,324                              | 217                                | 35.7                               | 55.8                               | 4.2                                | 13.2                               | 1.5                                | 2.9                                | 0.3                                | 1.8                                | 0.2                                | 39.4                              | 2.04   | 36.7   | 6.1   |
|         | 112.0  | 113.0 | 3,976                              | 8,329                | 876                                | 2,939                              | 223                                | 38.7                               | 63.6                               | 5.2                                | 14.9                               | 1.6                                | 2.7                                | 0.3                                | 1.5                                | 0.2                                | 39.4                              | 1.65   | 57.7   | 6.9   |
|         | 113.0  | 114.0 | 4,398                              | 8,636                | 869                                | 2,741                              | 172                                | 29.6                               | 48.0                               | 3.8                                | 11.6                               | 1.2                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 30.5                              | 1.69   | 49.9   | 16.2  |
|         | 114.0  | 115.0 | 4,421                              | 8,648                | 884                                | 2,811                              | 198                                | 36.1                               | 65.5                               | 6.1                                | 17.8                               | 2.0                                | 3.7                                | 0.4                                | 1.9                                | 0.3                                | 53.3                              | 1.71   | 94.3   | 14.2  |
|         | 115.0  | 116.0 | 7,823                              | 15,048               | 1,504                              | 4,806                              | 325                                | 55.8                               | 96.8                               | 8.5                                | 24.6                               | 2.6                                | 4.5                                | 0.4                                | 2.3                                | 0.3                                | 67.3                              | 2.98   | 94.8   | 6.9   |
|         | 116.0  | 117.0 | 5,583                              | 10,785               | 1,075                              | 3,359                              | 217                                | 37.3                               | 65.9                               | 6.3                                | 19.3                               | 2.1                                | 3.9                                | 0.4                                | 2.1                                | 0.3                                | 55.9                              | 2.12   | 88.2   | 8.1   |
|         | 117.0  | 118.0 | 6,239                              | 12,198               | 1,232                              | 3,837                              | 259                                | 44.1                               | 77.0                               | 7.1                                | 20.4                               | 2.3                                | 3.5                                | 0.3                                | 1.9                                | 0.3                                | 55.9                              | 2.40   | 99.9   | 8.1   |
|         | 118.0  | 119.0 | 5,852                              | 11,387               | 1,139                              | 3,593                              | 239                                | 40.0                               | 67.8                               | 5.6                                | 17.2                               | 2.0                                | 3.4                                | 0.3                                | 2.1                                | 0.2                                | 52.1                              | 2.24   | 64.6   | 10.6  |
|         | 119.0  | 120.0 | 4,070                              | 8,341                | 842                                | 2,578                              | 169                                | 28.1                               | 48.9                               | 4.0                                | 12.4                               | 1.5                                | 2.9                                | 0.3                                | 1.8                                | 0.2                                | 41.9                              | 1.61   | 40.2   | 9.5   |
|         | 120.0  | 121.0 | 6,122                              | 12,223               | 1,195                              | 3,511                              | 217                                | 35.3                               | 60.4                               | 4.7                                | 13.3                               | 1.5                                | 2.7                                | 0.3                                | 1.7                                | 0.2                                | 41.9                              | 2.34   | 45.6   | 7.9   |
|         | 121.0  | 122.0 | 5,665                              | 11,510               | 1,142                              | 3,429                              | 220                                | 37.4                               | 73.1                               | 6.9                                | 24.0                               | 2.6                                | 4.8                                | 0.6                                | 3.3                                | 0.5                                | 78.7                              | 2.22   | 83.8   | 5.3   |
|         | 122.0  | 123.0 | 4,750                              | 10,110               | 1,020                              | 3,138                              | 205                                | 32.7                               | 60.6                               | 4.7                                | 13.5                               | 1.5                                | 2.7                                | 0.3                                | 1.6                                | 0.3                                | 40.6                              | 1.94   | 68.5   | 5.2   |
|         | 123.0  | 124.0 | 4,984                              | 10,196               | 1,015                              | 3,009                              | 191                                | 30.8                               | 55.4                               | 4.7                                | 16.1                               | 2.1                                | 4.7                                | 0.5                                | 3.4                                | 0.5                                | 68.6                              | 1.96   | 51.4   | 10.6  |
|         | 124.0  | 125.0 | 6,274                              | 12,714               | 1,250                              | 3,674                              | 239                                | 39.7                               | 72.2                               | 5.9                                | 19.1                               | 2.1                                | 3.8                                | 0.3                                | 1.8                                | 0.2                                | 61.0                              | 2.44   | 74.9   | 6.4   |
|         | 125.0  | 126.0 | 5,653                              | 11,510               | 1,144                              | 3,371                              | 216                                | 36.5                               | 67.9                               | 5.8                                | 19.7                               | 2.3                                | 3.9                                | 0.4                                | 1.9                                | 0.3                                | 63.5                              | 2.21   | 68.9   | 6.2   |
|         | 126.0  | 127.0 | 5,934                              | 11,805               | 1,132                              | 3,289                              | 205                                | 34.7                               | 63.3                               | 5.1                                | 16.3                               | 1.7                                | 3.2                                | 0.3                                | 1.6                                | 0.2                                | 49.5                              | 2.25   | 60.7   | 4.9   |
|         | 127.0  | 128.0 | 4,023                              | 8,488                | 861                                | 2,659                              | 197                                | 33.0                               | 58.9                               | 4.6                                | 16.3                               | 2.0                                | 3.7                                | 0.3                                | 1.7                                | 0.3                                | 55.9                              | 1.64   | 51.5   | 7.4   |
|         | 128.0  | 129.0 | 2,756                              | 6,658                | 750                                | 2,543                              | 206                                | 34.3                               | 57.3                               | 4.2                                | 12.7                               | 1.5                                | 2.5                                | 0.3                                | 1.5                                | 0.2                                | 41.9                              | 1.31   | 51.8   | 4.8   |
|         | 129.0  | 130.0 | 3,460                              | 7,063                | 708                                | 2,146                              | 143                                | 24.4                               | 42.9                               | 3.4                                | 11.7                               | 1.4                                | 2.5                                | 0.2                                | 1.1                                | 0.2                                | 34.3                              | 1.36   | 35.2   | 10.7  |
|         | 130.0  | 131.0 | 3,577                              | 9,225                | 1,028                              | 3,709                              | 314                                | 51.3                               | 82.1                               | 6.0                                | 18.0                               | 2.0                                | 3.5                                | 0.3                                | 1.6                                | 0.2                                | 47.0                              | 1.81   | 85.3   | 4.7   |
|         | 131.0  | 132.0 | 5,336                              | 10,785               | 1,055                              | 3,278                              | 213                                | 35.7                               | 64.1                               | 5.7                                | 19.4                               | 2.2                                | 4.5                                | 0.4                                | 3.0                                | 0.3                                | 58.4                              | 2.09   | 59.1   | 8.4   |
|         | 132.0  | 133.0 | 6,380                              | 12,898               | 1,275                              | 3,814                              | 241                                | 39.5                               | 69.0                               | 5.4                                | 17.9                               | 2.1                                | 3.9                                | 0.3                                | 1.7                                | 0.2                                | 58.4                              | 2.48   | 52.1   | 8.6   |
|         | 133.0  | 134.0 | 4,703                              | 9,618                | 969                                | 2,939                              | 205                                | 34.5                               | 63.2                               | 5.0                                | 17.7                               | 2.2                                | 4.4                                | 0.5                                | 2.7                                | 0.4                                | 63.5                              | 1.86   | 62.6   | 9.1   |
|         | 134.0  | 135.0 | 10,508                             | 20,207               | 1,957                              | 5,750                              | 386                                | 63.9                               | 112.8                              | 8.6                                | 27.0                               | 3.1                                | 5.8                                | 0.6                                | 3.1                                | 0.4                                | 88.9                              | 3.91   | 92.1   | 6.4   |
|         | 135.0  | 136.0 | 8,339                              | 16,153               | 1,589                              | 4,736                              | 348                                | 61.1                               | 109.6                              | 7.7                                | 22.5                               | 2.3                                | 3.5                                | 0.3                                | 1.7                                | 0.2                                | 57.2                              | 3.14   | 103.5  | 4.2   |
|         | 136.0  | 137.0 | 7,729                              | 15,785               | 1,559                              | 4,561                              | 285                                | 44.8                               | 75.3                               | 5.5                                | 15.6                               | 1.7                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 44.5                              | 3.01   | 54.2   | 1.9   |
|         | 137.0  | 138.0 | 6,228                              | 12,591               | 1,244                              | 3,651                              | 228                                | 35.6                               | 60.7                               | 4.8                                | 16.8                               | 2.0                                | 3.9                                | 0.4                                | 1.8                                | 0.3                                | 55.9                              | 2.41   | 39.6   | 9.2   |
|         | 138.0  | 139.0 | 5,418                              | 10,810               | 1,051                              | 3,138                              | 188                                | 29.9                               | 49.9                               | 3.6                                | 11.6                               | 1.4                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 34.3                              | 2.07   | 33.6   | 8.2   |
|         | 139.0  | 140.0 | 9,218                              | 17,013               | 1,601                              | 4,619                              | 284                                | 48.2                               | 87.3                               | 7.0                                | 22.0                               | 2.4                                | 4.4                                | 0.4                                | 1.9                                | 0.2                                | 63.5                              | 3.30   | 68.3   | 5.8   |
|         | 140.0  | 141.0 | 6,638                              | 12,272               | 1,145                              | 3,231                              | 198                                | 33.6                               | 60.5                               | 4.9                                | 16.0                               | 1.7                                | 2.9                                | 0.2                                | 1.3                                | 0.2                                | 47.0                              | 2.37   | 48.7   | 1.6   |
|         | 141.0  | 142.0 | 17,827                             | 32,184               | 2,984                              | 8,316                              | 517                                | 87.0                               | 154.5                              | 11.9                               | 37.6                               | 4.0                                | 6.4                                | 0.5                                | 2.4                                | 0.3                                | 101.6                             | 6.22   | 125    | 2.8   |
|         | 142.0  | 143.0 | 15,950                             | 28,745               | 2,658                              | 7,663                              | 496                                | 81.1                               | 145.2                              | 10.5                               | 32.5                               | 3.4                                | 5.0                                | 0.4                                | 1.9                                | 0.2                                | 86.4                              | 5.59   | 113.5  | 2.2   |
|         | 143.0  | 144.0 | 15,188                             | 27,270               | 2,513                              | 6,905                              | 420                                | 71.9                               | 130.8                              | 10.1                               | 31.5                               | 3.3                                | 5.4                                | 0.5                                | 2.2                                | 0.3                                | 85.1                              | 5.26   | 94.5   | 2     |
|         | 144.0  | 145.0 | 9,183                              | 16,768               | 1,559                              | 4,339                              | 266                                | 46.0                               | 83.0                               | 6.7                                | 23.3                               | 2.6                                | 4.4                                | 0.4                                | 1.9                                | 0.2                                | 67.3                              | 3.23   | 67.4   | 7.6   |
|         | 145.0  | 146.0 | 4,328                              | 8,046                | 749                                | 2,170                              | 147                                | 26.4                               | 48.9                               | 4.0                                | 13.2                               | 1.6                                | 2.9                                | 0.3                                | 1.5                                | 0.2                                | 40.6                              | 1.56   | 50.9   | 23.5  |
|         | 146.0  | 147.0 | 8,843                              | 16,706               | 1,631                              | 4,864                              | 362                                | 65.3                               | 127.9                              | 10.8                               | 31.2                               | 2.9                                | 4.6                                | 0.4                                | 1.7                                | 0.2                                | 72.4                              | 3.27   | 197    | 8.2   |
|         | 147.0  | 148.0 | 14,719                             | 25,919               | 2,368                              | 6,579                              | 445                                | 77.4                               | 139.5                              | 10.0                               | 29.8                               | 2.9                                | 4.6                                | 0.3                                | 1.7                                | 0.2                                | 72.4                              | 5.04   | 108    | 2.8   |
|         | 148.0  | 149.0 | 10,719                             | 20,146               | 1,969                              | 5,832                              | 431                                | 75.8                               | 136.6                              | 9.8                                | 29.6                               | 3.2                                | 5.0                                | 0.4                                | 1.9                                | 0.3                                | 77.5                              | 3.94   | 111.5  | 8.7   |
|         | 149.0  | 150.0 | 15,129                             | 25,919               | 2,453                              | 6,812                              | 493                                | 86.6                               | 143.5                              | 10.6                               | 29.2                               | 2.8                                | 4.0                                | 0.4                                | 1.8                                | 0.2                                | 69.8                              | 5.12   | 133    | 2.5   |
|         | 150.0  | 151.0 | 14,543                             | 24,937               | 2,338                              | 6,497                              | 466                                | 82.8                               | 138.9                              | 9.8                                | 27.4                               | 2.9                                | 4.9                                | 0.5                                | 1.7                                | 0.4                                | 68.6                              | 4.91   | 125    | 2.3   |
|         | 151.0  | 152.0 | 15,540                             | 27,393               | 2,598                              | 7,255                              | 480                                | 81.4                               | 137.2                              | 11.0                               | 31.0                               | 3.1                                | 4.6                                | 0.4                                | 1.9                                | 0.2                                | 77.5                              | 5.36   | 114    | 1.7   |
|         | 152.0  | 153.0 | 15,422                             | 27,885               | 2,694                              | 7,710                              | 555                                | 97.5                               | 159.6                              | 12.2                               | 32.9                               | 3.2                                | 4.6                                | 0.5                                | 1.7                                | 0.3                                | 71.1                              | 5.47   | 163.5  | 9.3   |
|         | 153.0  | 154.0 | 18,178                             | 32,061               | 3,057                              | 8,620                              | 609                                | 105.5                              | 176.4                              | 12.9                               | 34.0                               | 3.0                                | 4.8                                | 0.4                                | 1.6                                | 0.2                                | 76.2                              | 6.29   | 150    | 1.7   |
|         | 154.0  | 155.0 | 15,246                             | 26,288               | 2,453                              | 6,753                              | 464                                | 81.5                               | 134.3                              | 10.1                               | 28.7                               | 2.9                                | 4.9                                | 0.5                                | 2.4                                | 0.3                                | 72.4                              | 5.15   | 117    | 2.2   |

| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 155.0  | 156.0 | 15,305                             | 26,779               | 2,489                              | 6,882                              | 462                                | 80.1                               | 133.1                              | 10.4                               | 29.0                               | 2.9                                | 4.6                                | 0.4                                | 1.8                                | 0.3                                | 71.1                              | 5.23   | 121    | 1.9   |
|                 | 156.0  | 157.0 | 12,666                             | 21,681               | 1,951                              | 5,692                              | 394                                | 69.4                               | 115.8                              | 8.5                                | 24.3                               | 2.4                                | 4.2                                | 0.4                                | 1.9                                | 0.3                                | 63.5                              | 4.27   | 99.9   | 2     |
|                 | 157.0  | 158.0 | 18,120                             | 30,710               | 2,827                              | 7,582                              | 467                                | 79.2                               | 135.4                              | 10.4                               | 30.9                               | 3.1                                | 4.8                                | 0.4                                | 1.7                                | 0.2                                | 74.9                              | 6.00   | 113    | 1.7   |
|                 | 158.0  | 159.0 | 11,599                             | 20,207               | 1,800                              | 5,097                              | 319                                | 55.0                               | 94.7                               | 7.6                                | 23.2                               | 2.3                                | 3.8                                | 0.3                                | 1.5                                | 0.2                                | 55.9                              | 3.93   | 80.6   | 2.2   |
|                 | 159.0  | 160.0 | 7,858                              | 14,249               | 1,323                              | 3,849                              | 221                                | 34.6                               | 54.9                               | 4.5                                | 14.8                               | 1.5                                | 2.5                                | 0.2                                | 1.0                                | 0.1                                | 39.4                              | 2.77   | 41.3   | 4.5   |
| <b>KGKRC038</b> | 0.0    | 1.0   | 6,016                              | 10,908               | 1,034                              | 3,114                              | 213                                | 34.2                               | 55.4                               | 3.9                                | 11.0                               | 1.2                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 26.7                              | 2.14   | 35.2   | 5.4   |
|                 | 1.0    | 2.0   | 5,805                              | 10,687               | 1,023                              | 3,126                              | 215                                | 34.6                               | 56.1                               | 3.7                                | 10.4                               | 1.1                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 2.10   | 32.6   | 2.3   |
|                 | 2.0    | 3.0   | 7,271                              | 13,021               | 1,238                              | 3,779                              | 267                                | 43.4                               | 71.2                               | 5.4                                | 15.2                               | 1.6                                | 3.3                                | 0.3                                | 1.4                                | 0.2                                | 36.8                              | 2.58   | 45.4   | 2.5   |
|                 | 3.0    | 4.0   | 6,228                              | 11,436               | 1,085                              | 3,324                              | 226                                | 36.9                               | 57.4                               | 4.1                                | 10.8                               | 1.2                                | 1.7                                | 0.1                                | 0.8                                | 0.1                                | 24.1                              | 2.24   | 31.6   | 2.8   |
|                 | 4.0    | 5.0   | 5,841                              | 10,736               | 1,032                              | 3,173                              | 215                                | 34.4                               | 54.8                               | 3.9                                | 10.9                               | 1.0                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.11   | 32.4   | 1.9   |
|                 | 5.0    | 6.0   | 7,248                              | 12,530               | 1,159                              | 3,464                              | 227                                | 37.5                               | 60.6                               | 4.1                                | 10.8                               | 1.2                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 2.48   | 27.5   | 1.8   |
|                 | 6.0    | 7.0   | 6,298                              | 10,970               | 1,005                              | 2,974                              | 198                                | 31.7                               | 49.5                               | 3.4                                | 9.1                                | 0.9                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 2.16   | 22.8   | 1.7   |
|                 | 7.0    | 8.0   | 6,286                              | 11,203               | 1,051                              | 3,184                              | 212                                | 34.0                               | 55.7                               | 3.7                                | 10.0                               | 1.0                                | 1.7                                | 0.2                                | 0.7                                | 0.1                                | 22.9                              | 2.21   | 25.1   | 1.4   |
|                 | 8.0    | 9.0   | 5,934                              | 10,540               | 980                                | 2,951                              | 196                                | 30.7                               | 48.3                               | 3.6                                | 9.1                                | 1.1                                | 1.7                                | 0.1                                | 0.8                                | 0.1                                | 22.9                              | 2.07   | 23.9   | 1.3   |
|                 | 9.0    | 10.0  | 6,685                              | 12,087               | 1,143                              | 3,488                              | 233                                | 37.1                               | 59.7                               | 4.0                                | 10.0                               | 1.1                                | 1.5                                | 0.2                                | 0.6                                | 0.1                                | 21.6                              | 2.38   | 31.1   | 4     |
|                 | 10.0   | 11.0  | 5,231                              | 9,532                | 899                                | 2,671                              | 179                                | 29.4                               | 47.8                               | 3.1                                | 8.4                                | 0.8                                | 1.3                                | 0.1                                | 0.6                                | 0.1                                | 17.8                              | 1.86   | 21.7   | 2.9   |
|                 | 11.0   | 12.0  | 6,368                              | 11,486               | 1,067                              | 3,138                              | 209                                | 34.3                               | 56.3                               | 3.7                                | 9.5                                | 1.0                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 20.3                              | 2.24   | 25.5   | 2.4   |
|                 | 12.0   | 13.0  | 8,421                              | 14,741               | 1,347                              | 3,954                              | 263                                | 43.3                               | 72.5                               | 4.8                                | 12.2                               | 1.3                                | 1.9                                | 0.2                                | 0.7                                | 0.1                                | 26.7                              | 2.89   | 32.4   | 1.8   |
|                 | 13.0   | 14.0  | 6,251                              | 10,675               | 1,015                              | 2,858                              | 192                                | 31.3                               | 51.9                               | 3.4                                | 9.1                                | 1.1                                | 1.8                                | 0.3                                | 0.8                                | 0.3                                | 19.1                              | 2.11   | 24     | 2.8   |
|                 | 14.0   | 15.0  | 5,360                              | 9,090                | 867                                | 2,449                              | 165                                | 27.6                               | 45.5                               | 2.9                                | 7.9                                | 0.9                                | 1.4                                | 0.2                                | 0.7                                | 0.1                                | 19.1                              | 1.80   | 20.7   | 2.1   |
|                 | 15.0   | 16.0  | 5,688                              | 10,011               | 981                                | 2,811                              | 187                                | 30.9                               | 50.5                               | 3.2                                | 8.5                                | 0.9                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 1.98   | 23.1   | 3     |
|                 | 16.0   | 17.0  | 5,911                              | 10,171               | 988                                | 2,811                              | 190                                | 31.3                               | 52.2                               | 3.5                                | 10.0                               | 1.0                                | 1.7                                | 0.2                                | 0.9                                | 0.2                                | 22.9                              | 2.02   | 24.7   | 1.6   |
|                 | 17.0   | 18.0  | 7,002                              | 11,977               | 1,160                              | 3,278                              | 221                                | 37.2                               | 61.7                               | 4.1                                | 10.2                               | 1.0                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 21.6                              | 2.38   | 28.4   | 1.9   |
|                 | 18.0   | 19.0  | 3,460                              | 6,117                | 596                                | 1,691                              | 118                                | 20.2                               | 33.3                               | 2.1                                | 6.8                                | 0.7                                | 1.3                                | 0.1                                | 0.7                                | 0.1                                | 16.5                              | 1.21   | 17.6   | 3.5   |
|                 | 19.0   | 20.0  | 8,526                              | 14,004               | 1,341                              | 3,732                              | 250                                | 41.3                               | 68.5                               | 4.4                                | 11.7                               | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 2.80   | 28.6   | 3.7   |
|                 | 20.0   | 21.0  | 5,911                              | 9,803                | 932                                | 2,578                              | 175                                | 29.0                               | 47.7                               | 3.1                                | 8.3                                | 0.9                                | 1.5                                | 0.1                                | 0.6                                | 0.1                                | 17.8                              | 1.95   | 20.9   | 2.3   |
|                 | 21.0   | 22.0  | 6,439                              | 10,834               | 1,038                              | 2,893                              | 194                                | 33.1                               | 53.5                               | 3.4                                | 9.5                                | 1.0                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.15   | 24.4   | 3.3   |
|                 | 22.0   | 23.0  | 6,040                              | 10,269               | 1,004                              | 2,846                              | 192                                | 32.0                               | 52.9                               | 3.4                                | 9.2                                | 1.0                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 20.3                              | 2.05   | 26     | 3.2   |
|                 | 23.0   | 24.0  | 11,200                             | 17,996               | 1,710                              | 4,724                              | 329                                | 59.3                               | 103.2                              | 7.1                                | 19.7                               | 2.0                                | 3.2                                | 0.3                                | 1.1                                | 0.2                                | 41.9                              | 3.62   | 57.8   | 2     |
|                 | 24.0   | 25.0  | 5,641                              | 9,299                | 880                                | 2,461                              | 169                                | 28.5                               | 46.6                               | 3.1                                | 8.5                                | 0.9                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 1.86   | 21     | 3     |
|                 | 25.0   | 26.0  | 5,899                              | 10,331               | 1,006                              | 2,869                              | 198                                | 32.7                               | 53.1                               | 3.5                                | 9.4                                | 1.0                                | 1.5                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 2.04   | 25.8   | 2.4   |
|                 | 26.0   | 27.0  | 5,289                              | 9,262                | 911                                | 2,601                              | 178                                | 29.5                               | 48.8                               | 3.0                                | 8.6                                | 0.8                                | 1.5                                | 0.2                                | 0.7                                | 0.1                                | 20.3                              | 1.84   | 22.9   | 2.8   |
|                 | 27.0   | 28.0  | 4,480                              | 7,800                | 766                                | 2,199                              | 151                                | 25.9                               | 42.8                               | 2.9                                | 7.8                                | 0.8                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 1.55   | 21.3   | 3.9   |
|                 | 28.0   | 29.0  | 5,219                              | 8,611                | 823                                | 2,321                              | 155                                | 26.6                               | 45.5                               | 3.0                                | 8.5                                | 0.9                                | 1.7                                | 0.1                                | 0.7                                | 0.1                                | 21.6                              | 1.72   | 21.1   | 2.1   |
|                 | 29.0   | 30.0  | 714                                | 1,235                | 123                                | 349                                | 24                                 | 4.3                                | 7.2                                | 0.5                                | 1.0                                | 0.1                                | 0.2                                | -0.1                               | -0.2                               | -0.1                               | 3.8                               | 0.25   | 3.4    | 0.5   |
|                 | 30.0   | 31.0  | 1,824                              | 3,231                | 320                                | 933                                | 71                                 | 12.4                               | 21.3                               | 1.5                                | 4.5                                | 0.5                                | 0.9                                | 0.1                                | 0.5                                | 0.1                                | 12.7                              | 0.64   | 12.4   | 1.1   |
|                 | 31.0   | 32.0  | 6,509                              | 11,203               | 1,108                              | 3,208                              | 238                                | 43.1                               | 74.9                               | 5.4                                | 17.9                               | 2.1                                | 4.1                                | 0.4                                | 2.6                                | 0.4                                | 54.6                              | 2.25   | 34.4   | 3     |
|                 | 32.0   | 33.0  | 5,043                              | 8,832                | 882                                | 2,589                              | 199                                | 35.7                               | 60.9                               | 4.4                                | 14.8                               | 1.8                                | 3.7                                | 0.4                                | 2.5                                | 0.4                                | 47.0                              | 1.77   | 26.7   | 4     |
|                 | 33.0   | 34.0  | 5,078                              | 8,967                | 893                                | 2,636                              | 207                                | 37.6                               | 67.4                               | 4.8                                | 15.7                               | 1.8                                | 3.7                                | 0.4                                | 2.4                                | 0.3                                | 44.5                              | 1.80   | 25.3   | 2.8   |
|                 | 34.0   | 35.0  | 4,668                              | 8,218                | 822                                | 2,414                              | 179                                | 32.2                               | 53.7                               | 3.7                                | 11.5                               | 1.3                                | 2.5                                | 0.2                                | 1.5                                | 0.2                                | 31.8                              | 1.64   | 25.1   | 2.4   |
|                 | 35.0   | 36.0  | 3,894                              | 7,014                | 721                                | 2,181                              | 188                                | 36.0                               | 62.9                               | 4.9                                | 17.3                               | 2.3                                | 4.9                                | 0.6                                | 3.4                                | 0.6                                | 62.2                              | 1.42   | 22.1   | 3.1   |
|                 | 36.0   | 37.0  | 5,629                              | 10,024               | 1,002                              | 2,939                              | 224                                | 39.8                               | 68.8                               | 4.9                                | 16.6                               | 2.1                                | 3.9                                | 0.4                                | 2.4                                | 0.3                                | 52.1                              | 2.00   | 26.3   | 2.5   |
|                 | 37.0   | 38.0  | 6,016                              | 10,368               | 1,023                              | 2,974                              | 210                                | 36.0                               | 61.8                               | 4.1                                | 13.2                               | 1.4                                | 2.5                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 2.07   | 28     | 4.3   |
|                 | 38.0   | 39.0  | 3,601                              | 6,768                | 715                                | 2,222                              | 188                                | 35.1                               | 63.7                               | 5.1                                | 17.3                               | 1.8                                | 3.5                                | 0.4                                | 2.7                                | 0.5                                | 49.5                              | 1.37   | 53.6   | 4.6   |
|                 | 39.0   | 40.0  | 4,762                              | 8,795                | 899                                | 2,659                              | 199                                | 34.6                               | 59.2                               | 4.4                                | 13.5                               | 1.5                                | 2.9                                | 0.3                                | 1.8                                | 0.3                                | 38.1                              | 1.75   | 31.7   | 3.7   |
|                 | 40.0   | 41.0  | 4,996                              | 9,594                | 1,017                              | 3,079                              | 242                                | 41.9                               | 70.9                               | 4.9                                | 14.8                               | 1.6                                | 3.2                                | 0.3                                | 1.9                                | 0.3                                | 39.4                              | 1.91   | 43.4   | 1.7   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 41.0   | 42.0 | 4,492                              | 8,058                | 807                                | 2,379                              | 182                                | 33.2                               | 57.2                               | 4.2                                | 14.0                               | 1.7                                | 3.1                                | 0.4                                | 2.4                                | 0.3                                | 41.9                              | 1.61   | 25.2   | 3.3   |
|         | 42.0   | 43.0 | 4,586                              | 8,501                | 863                                | 2,578                              | 205                                | 36.6                               | 65.6                               | 4.6                                | 16.4                               | 2.0                                | 3.9                                | 0.5                                | 3.1                                | 0.4                                | 53.3                              | 1.69   | 29.9   | 3.9   |
|         | 43.0   | 44.0 | 4,539                              | 8,734                | 923                                | 2,706                              | 218                                | 37.9                               | 69.6                               | 5.4                                | 18.7                               | 2.3                                | 4.6                                | 0.5                                | 3.1                                | 0.4                                | 58.4                              | 1.73   | 24.9   | 2.4   |
|         | 44.0   | 45.0 | 7,705                              | 14,925               | 1,595                              | 4,794                              | 336                                | 53.6                               | 89.6                               | 6.0                                | 17.2                               | 1.9                                | 3.4                                | 0.3                                | 1.8                                | 0.3                                | 43.2                              | 2.96   | 39.4   | 2.4   |
|         | 45.0   | 46.0 | 4,797                              | 8,894                | 936                                | 2,671                              | 206                                | 35.1                               | 63.2                               | 4.8                                | 16.6                               | 2.0                                | 4.0                                | 0.4                                | 2.4                                | 0.4                                | 50.8                              | 1.77   | 26     | 2.9   |
|         | 46.0   | 47.0 | 3,530                              | 6,732                | 695                                | 2,210                              | 194                                | 34.9                               | 64.9                               | 4.9                                | 17.5                               | 2.4                                | 4.9                                | 0.5                                | 3.4                                | 0.5                                | 61.0                              | 1.36   | 23.5   | 3.5   |
|         | 47.0   | 48.0 | 3,917                              | 7,297                | 731                                | 2,263                              | 190                                | 34.0                               | 61.8                               | 4.7                                | 16.3                               | 2.0                                | 4.2                                | 0.4                                | 2.4                                | 0.3                                | 49.5                              | 1.46   | 24.2   | 3.7   |
|         | 48.0   | 49.0 | 5,184                              | 9,459                | 974                                | 2,764                              | 220                                | 38.8                               | 72.4                               | 5.6                                | 18.8                               | 2.4                                | 4.8                                | 0.5                                | 2.9                                | 0.3                                | 57.2                              | 1.88   | 27.6   | 3.2   |
|         | 49.0   | 50.0 | 4,234                              | 8,243                | 851                                | 2,589                              | 206                                | 34.5                               | 61.8                               | 4.5                                | 15.2                               | 1.8                                | 3.7                                | 0.4                                | 1.9                                | 0.3                                | 45.7                              | 1.63   | 25     | 2.9   |
|         | 50.0   | 51.0 | 4,902                              | 9,225                | 961                                | 2,764                              | 218                                | 37.9                               | 69.4                               | 5.3                                | 17.1                               | 2.2                                | 4.5                                | 0.5                                | 3.0                                | 0.4                                | 53.3                              | 1.83   | 25.5   | 2.9   |
|         | 51.0   | 52.0 | 5,278                              | 9,901                | 1,014                              | 2,799                              | 201                                | 33.9                               | 60.1                               | 4.4                                | 13.5                               | 1.6                                | 3.2                                | 0.3                                | 1.7                                | 0.3                                | 39.4                              | 1.94   | 23.5   | 1.7   |
|         | 52.0   | 53.0 | 5,758                              | 11,142               | 1,161                              | 3,289                              | 242                                | 40.4                               | 71.2                               | 5.2                                | 15.6                               | 1.9                                | 3.5                                | 0.4                                | 2.2                                | 0.3                                | 47.0                              | 2.18   | 24.5   | 2     |
|         | 53.0   | 54.0 | 5,266                              | 9,901                | 1,033                              | 2,893                              | 214                                | 36.6                               | 63.4                               | 4.8                                | 15.2                               | 1.7                                | 3.4                                | 0.3                                | 1.9                                | 0.3                                | 41.9                              | 1.95   | 23.3   | 2.2   |
|         | 54.0   | 55.0 | 6,662                              | 11,854               | 1,208                              | 3,429                              | 257                                | 43.4                               | 79.0                               | 5.6                                | 18.4                               | 2.1                                | 4.0                                | 0.4                                | 2.3                                | 0.3                                | 50.8                              | 2.36   | 30     | 2.4   |
|         | 55.0   | 56.0 | 6,427                              | 11,252               | 1,150                              | 3,196                              | 237                                | 41.0                               | 75.0                               | 5.7                                | 17.6                               | 2.1                                | 4.0                                | 0.4                                | 2.3                                | 0.3                                | 48.3                              | 2.25   | 26.1   | 4.2   |
|         | 56.0   | 57.0 | 5,196                              | 9,594                | 981                                | 2,776                              | 208                                | 35.8                               | 66.4                               | 5.2                                | 16.3                               | 1.9                                | 3.8                                | 0.4                                | 2.4                                | 0.3                                | 45.7                              | 1.89   | 25.4   | 3.9   |
|         | 57.0   | 58.0 | 6,450                              | 11,461               | 1,182                              | 3,289                              | 253                                | 42.8                               | 79.4                               | 6.2                                | 19.9                               | 2.4                                | 4.5                                | 0.5                                | 3.0                                | 0.4                                | 55.9                              | 2.28   | 31     | 4.1   |
|         | 58.0   | 59.0 | 1,994                              | 3,476                | 329                                | 969                                | 79                                 | 13.7                               | 26.7                               | 2.4                                | 8.6                                | 1.3                                | 3.1                                | 0.4                                | 2.5                                | 0.4                                | 33.0                              | 0.69   | 21.8   | 10.4  |
|         | 59.0   | 60.0 | 8,679                              | 16,031               | 1,619                              | 4,806                              | 336                                | 55.1                               | 94.5                               | 6.7                                | 21.6                               | 2.6                                | 5.0                                | 0.5                                | 3.1                                | 0.4                                | 62.2                              | 3.17   | 56.1   | 4.1   |
|         | 60.0   | 61.0 | 8,667                              | 15,662               | 1,595                              | 4,642                              | 322                                | 54.1                               | 96.1                               | 6.7                                | 22.0                               | 2.6                                | 5.2                                | 0.5                                | 3.0                                | 0.3                                | 63.5                              | 3.11   | 45.5   | 2     |
|         | 61.0   | 62.0 | 9,898                              | 16,276               | 1,565                              | 4,339                              | 302                                | 51.1                               | 90.5                               | 6.8                                | 20.9                               | 2.3                                | 4.0                                | 0.4                                | 2.2                                | 0.3                                | 53.3                              | 3.26   | 40     | 2.3   |
|         | 62.0   | 63.0 | 5,676                              | 10,650               | 1,093                              | 3,079                              | 220                                | 36.2                               | 64.7                               | 4.8                                | 14.6                               | 1.7                                | 2.9                                | 0.3                                | 1.5                                | 0.2                                | 38.1                              | 2.09   | 28.6   | 2.2   |
|         | 63.0   | 64.0 | 7,494                              | 13,267               | 1,347                              | 3,802                              | 291                                | 50.0                               | 91.4                               | 6.8                                | 21.2                               | 2.5                                | 4.5                                | 0.4                                | 2.4                                | 0.3                                | 57.2                              | 2.64   | 40.2   | 2.3   |
|         | 64.0   | 65.0 | 13,311                             | 22,050               | 2,151                              | 6,065                              | 393                                | 61.4                               | 105.2                              | 7.0                                | 19.7                               | 1.9                                | 3.1                                | 0.3                                | 1.4                                | 0.2                                | 40.6                              | 4.42   | 47.2   | 13.6  |
|         | 65.0   | 66.0 | 5,817                              | 10,515               | 1,063                              | 3,009                              | 213                                | 34.9                               | 66.4                               | 5.1                                | 18.6                               | 2.4                                | 4.9                                | 0.5                                | 2.6                                | 0.3                                | 58.4                              | 2.08   | 30.6   | 16    |
|         | 66.0   | 67.0 | 6,228                              | 11,363               | 1,168                              | 3,243                              | 220                                | 33.9                               | 56.7                               | 3.6                                | 10.3                               | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 2.24   | 25.1   | 0.9   |
|         | 67.0   | 68.0 | 9,253                              | 16,829               | 1,728                              | 5,027                              | 311                                | 46.4                               | 76.5                               | 4.9                                | 13.8                               | 1.5                                | 2.7                                | 0.3                                | 1.4                                | 0.2                                | 34.3                              | 3.33   | 31.8   | 1.6   |
|         | 68.0   | 69.0 | 3,730                              | 6,842                | 666                                | 2,018                              | 161                                | 28.1                               | 56.9                               | 4.9                                | 18.1                               | 2.4                                | 5.0                                | 0.5                                | 3.0                                | 0.4                                | 59.7                              | 1.36   | 28     | 3.5   |
|         | 69.0   | 70.0 | 3,483                              | 6,609                | 658                                | 1,989                              | 162                                | 29.4                               | 60.9                               | 5.3                                | 17.0                               | 1.7                                | 2.9                                | 0.3                                | 1.7                                | 0.3                                | 40.6                              | 1.31   | 36.4   | 3.4   |
|         | 70.0   | 71.0 | 3,589                              | 7,014                | 712                                | 2,222                              | 188                                | 34.0                               | 67.7                               | 5.5                                | 19.6                               | 2.5                                | 4.9                                | 0.5                                | 2.9                                | 0.4                                | 59.7                              | 1.39   | 45.5   | 4.5   |
|         | 71.0   | 72.0 | 4,574                              | 8,857                | 940                                | 2,694                              | 210                                | 35.9                               | 70.8                               | 5.8                                | 20.0                               | 2.8                                | 5.7                                | 0.6                                | 3.1                                | 0.4                                | 67.3                              | 1.75   | 43.8   | 4.6   |
|         | 72.0   | 73.0 | 2,463                              | 5,036                | 542                                | 1,761                              | 166                                | 31.5                               | 66.5                               | 5.9                                | 23.3                               | 3.3                                | 7.4                                | 0.8                                | 4.4                                | 0.6                                | 85.1                              | 1.02   | 36.2   | 4.8   |
|         | 73.0   | 74.0 | 9,511                              | 17,013               | 1,589                              | 4,782                              | 335                                | 57.9                               | 95.3                               | 6.6                                | 18.0                               | 1.8                                | 3.3                                | 0.3                                | 1.6                                | 0.3                                | 43.2                              | 3.35   | 64.1   | 1.9   |
|         | 74.0   | 75.0 | 1,560                              | 3,108                | 312                                | 1,031                              | 105                                | 22.9                               | 51.9                               | 5.3                                | 23.3                               | 3.4                                | 7.6                                | 0.8                                | 4.0                                | 0.5                                | 91.4                              | 0.63   | 23.4   | 3.8   |
|         | 75.0   | 76.0 | 992                                | 2,021                | 213                                | 719                                | 80                                 | 18.6                               | 43.7                               | 4.8                                | 21.4                               | 3.1                                | 6.8                                | 0.7                                | 3.9                                | 0.5                                | 85.1                              | 0.42   | 26.4   | 6.1   |
|         | 76.0   | 77.0 | 2,651                              | 5,356                | 545                                | 1,755                              | 147                                | 28.8                               | 54.5                               | 4.5                                | 16.8                               | 2.2                                | 4.5                                | 0.5                                | 2.5                                | 0.3                                | 54.6                              | 1.06   | 17.7   | 3.2   |
|         | 77.0   | 78.0 | 5,219                              | 9,766                | 930                                | 2,834                              | 196                                | 32.8                               | 54.9                               | 3.7                                | 10.7                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 1.91   | 26     | 2.9   |
|         | 78.0   | 79.0 | 7,600                              | 13,205               | 1,214                              | 3,593                              | 242                                | 41.6                               | 68.9                               | 4.7                                | 13.8                               | 1.5                                | 2.6                                | 0.2                                | 1.1                                | 0.2                                | 33.0                              | 2.60   | 30.9   | 2.5   |
|         | 79.0   | 80.0 | 5,700                              | 10,171               | 953                                | 2,893                              | 206                                | 35.9                               | 60.3                               | 4.5                                | 14.1                               | 1.6                                | 2.9                                | 0.3                                | 1.5                                | 0.2                                | 38.1                              | 2.01   | 25.1   | 2.1   |
|         | 80.0   | 81.0 | 6,732                              | 12,407               | 1,167                              | 3,523                              | 250                                | 43.4                               | 74.2                               | 5.3                                | 16.4                               | 1.9                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 45.7                              | 2.43   | 28     | 2     |
|         | 81.0   | 82.0 | 4,011                              | 7,395                | 707                                | 2,239                              | 179                                | 33.6                               | 61.1                               | 5.0                                | 18.7                               | 2.3                                | 4.5                                | 0.5                                | 2.4                                | 0.3                                | 58.4                              | 1.47   | 21.3   | 3.6   |
|         | 82.0   | 83.0 | 3,448                              | 6,621                | 649                                | 2,053                              | 161                                | 30.6                               | 53.1                               | 4.7                                | 17.2                               | 2.4                                | 5.6                                | 0.6                                | 3.6                                | 0.5                                | 68.6                              | 1.31   | 19.7   | 1.2   |
|         | 83.0   | 84.0 | 4,691                              | 8,869                | 852                                | 2,624                              | 194                                | 36.1                               | 60.5                               | 4.8                                | 15.0                               | 1.8                                | 3.5                                | 0.3                                | 2.1                                | 0.3                                | 43.2                              | 1.74   | 20.8   | 3.1   |
|         | 84.0   | 85.0 | 5,970                              | 10,650               | 993                                | 2,951                              | 201                                | 34.3                               | 59.2                               | 4.5                                | 13.5                               | 1.6                                | 3.1                                | 0.3                                | 1.5                                | 0.3                                | 38.1                              | 2.09   | 22.3   | 4.8   |
|         | 85.0   | 86.0 | 5,876                              | 10,552               | 976                                | 2,939                              | 217                                | 37.3                               | 63.7                               | 4.9                                | 14.7                               | 1.7                                | 3.0                                | 0.3                                | 1.5                                | 0.2                                | 39.4                              | 2.07   | 21.2   | 2.3   |
|         | 86.0   | 87.0 | 6,802                              | 12,345               | 1,147                              | 3,406                              | 230                                | 40.1                               | 67.3                               | 4.9                                | 15.8                               | 1.7                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 40.6                              | 2.41   | 23.8   | 2     |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 87.0   | 88.0  | 3,542                              | 6,744                | 655                                | 2,088                              | 170                                | 32.2                               | 58.4                               | 4.8                                | 16.8                               | 2.1                                | 4.5                                | 0.5                                | 2.7                                | 0.4                                | 55.9                              | 1.34   | 17.2   | 3.3   |
|         | 88.0   | 89.0  | 4,433                              | 8,574                | 841                                | 2,671                              | 215                                | 39.8                               | 69.4                               | 5.4                                | 18.5                               | 2.4                                | 5.0                                | 0.6                                | 3.9                                | 0.5                                | 62.2                              | 1.69   | 31.8   | 2.8   |
|         | 89.0   | 90.0  | 4,715                              | 8,906                | 860                                | 2,659                              | 206                                | 38.2                               | 65.7                               | 5.2                                | 18.4                               | 2.3                                | 4.7                                | 0.5                                | 2.9                                | 0.4                                | 58.4                              | 1.75   | 22.6   | 2.6   |
|         | 90.0   | 91.0  | 4,574                              | 8,476                | 806                                | 2,484                              | 183                                | 33.5                               | 58.0                               | 4.6                                | 15.0                               | 1.8                                | 3.5                                | 0.4                                | 2.2                                | 0.3                                | 45.7                              | 1.67   | 20.7   | 3     |
|         | 91.0   | 92.0  | 5,547                              | 9,962                | 941                                | 2,928                              | 228                                | 41.5                               | 73.5                               | 6.4                                | 21.0                               | 2.5                                | 4.8                                | 0.5                                | 3.2                                | 0.4                                | 63.5                              | 1.98   | 48.2   | 3.8   |
|         | 92.0   | 93.0  | 4,926                              | 9,115                | 869                                | 2,648                              | 192                                | 34.4                               | 60.1                               | 4.5                                | 15.4                               | 1.8                                | 3.5                                | 0.4                                | 1.9                                | 0.2                                | 45.7                              | 1.79   | 20.8   | 2.4   |
|         | 93.0   | 94.0  | 4,586                              | 8,537                | 817                                | 2,484                              | 173                                | 30.0                               | 50.4                               | 3.7                                | 11.6                               | 1.4                                | 2.5                                | 0.2                                | 1.5                                | 0.2                                | 34.3                              | 1.67   | 20.6   | 1.7   |
|         | 94.0   | 95.0  | 4,281                              | 7,972                | 755                                | 2,292                              | 179                                | 33.4                               | 58.4                               | 4.7                                | 16.6                               | 2.0                                | 4.2                                | 0.5                                | 2.7                                | 0.4                                | 54.6                              | 1.57   | 21.8   | 0.8   |
|         | 95.0   | 96.0  | 4,504                              | 8,476                | 814                                | 2,531                              | 198                                | 36.8                               | 62.6                               | 5.2                                | 18.0                               | 2.4                                | 4.8                                | 0.5                                | 3.1                                | 0.4                                | 61.0                              | 1.67   | 21.6   | 2.4   |
|         | 96.0   | 97.0  | 4,808                              | 9,176                | 887                                | 2,764                              | 206                                | 35.8                               | 62.4                               | 4.8                                | 15.7                               | 1.9                                | 3.8                                | 0.4                                | 2.3                                | 0.3                                | 49.5                              | 1.80   | 23.8   | 3     |
|         | 97.0   | 98.0  | 3,976                              | 7,420                | 713                                | 2,205                              | 164                                | 30.0                               | 52.3                               | 4.1                                | 14.1                               | 1.8                                | 3.8                                | 0.4                                | 2.6                                | 0.4                                | 47.0                              | 1.46   | 22.9   | 3.2   |
|         | 98.0   | 99.0  | 4,656                              | 8,722                | 832                                | 2,508                              | 180                                | 33.2                               | 56.5                               | 4.4                                | 13.9                               | 1.6                                | 3.0                                | 0.3                                | 1.6                                | 0.2                                | 38.1                              | 1.71   | 30.4   | 2.3   |
|         | 99.0   | 100.0 | 4,339                              | 7,911                | 742                                | 2,269                              | 159                                | 28.8                               | 49.3                               | 3.8                                | 12.7                               | 1.5                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 38.1                              | 1.56   | 25.4   | 1.2   |
|         | 100.0  | 101.0 | 1,384                              | 2,690                | 268                                | 867                                | 81                                 | 17.4                               | 36.1                               | 3.9                                | 16.3                               | 2.4                                | 5.4                                | 0.5                                | 3.5                                | 0.4                                | 66.0                              | 0.54   | 16.9   | 1.7   |
|         | 101.0  | 102.0 | 3,730                              | 7,100                | 672                                | 2,059                              | 143                                | 24.2                               | 42.2                               | 3.3                                | 10.3                               | 1.3                                | 2.5                                | 0.3                                | 1.5                                | 0.2                                | 30.5                              | 1.38   | 21.7   | 4.9   |
|         | 102.0  | 103.0 | 5,454                              | 10,466               | 999                                | 3,021                              | 206                                | 32.9                               | 54.6                               | 3.6                                | 10.4                               | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 2.03   | 23.2   | 2     |
|         | 103.0  | 104.0 | 4,457                              | 8,697                | 875                                | 2,648                              | 183                                | 31.0                               | 56.3                               | 3.6                                | 12.2                               | 1.4                                | 2.6                                | 0.3                                | 1.6                                | 0.2                                | 35.6                              | 1.70   | 18.5   | 1.5   |
|         | 104.0  | 105.0 | 5,196                              | 9,766                | 991                                | 2,893                              | 202                                | 35.6                               | 63.9                               | 4.4                                | 13.5                               | 1.6                                | 2.9                                | 0.3                                | 1.7                                | 0.2                                | 38.1                              | 1.92   | 19.9   | 2.3   |
|         | 105.0  | 106.0 | 5,817                              | 10,663               | 1,112                              | 3,173                              | 220                                | 38.0                               | 67.9                               | 4.4                                | 13.5                               | 1.6                                | 2.7                                | 0.3                                | 1.6                                | 0.2                                | 36.8                              | 2.12   | 22.5   | 2.3   |
|         | 106.0  | 107.0 | 4,210                              | 8,206                | 822                                | 2,601                              | 198                                | 36.0                               | 68.0                               | 4.8                                | 16.8                               | 2.1                                | 4.2                                | 0.5                                | 2.9                                | 0.4                                | 55.9                              | 1.62   | 19.4   | 2.7   |
|         | 107.0  | 108.0 | 5,547                              | 10,491               | 1,103                              | 3,231                              | 216                                | 36.6                               | 64.0                               | 4.3                                | 13.4                               | 1.6                                | 2.7                                | 0.3                                | 1.6                                | 0.2                                | 38.1                              | 2.08   | 19.6   | 2.3   |
|         | 108.0  | 109.0 | 5,618                              | 10,736               | 1,124                              | 3,243                              | 216                                | 36.9                               | 64.7                               | 4.3                                | 12.6                               | 1.5                                | 2.6                                | 0.3                                | 1.3                                | 0.2                                | 35.6                              | 2.11   | 19.8   | 2.5   |
|         | 109.0  | 110.0 | 6,333                              | 11,412               | 1,167                              | 3,243                              | 223                                | 39.0                               | 70.4                               | 4.9                                | 15.3                               | 1.8                                | 2.9                                | 0.3                                | 1.5                                | 0.2                                | 41.9                              | 2.26   | 23.7   | 3     |
|         | 110.0  | 111.0 | 7,084                              | 13,021               | 1,317                              | 3,721                              | 250                                | 42.7                               | 76.2                               | 5.0                                | 15.5                               | 1.7                                | 3.0                                | 0.3                                | 1.6                                | 0.2                                | 40.6                              | 2.56   | 24.4   | 2.5   |
|         | 111.0  | 112.0 | 4,152                              | 7,862                | 785                                | 2,473                              | 189                                | 36.0                               | 68.6                               | 5.1                                | 18.8                               | 2.4                                | 4.5                                | 0.5                                | 2.4                                | 0.3                                | 59.7                              | 1.57   | 16.4   | 2.7   |
|         | 112.0  | 113.0 | 4,949                              | 9,520                | 1,004                              | 2,858                              | 197                                | 34.0                               | 59.2                               | 3.9                                | 12.9                               | 1.5                                | 2.6                                | 0.3                                | 1.4                                | 0.2                                | 36.8                              | 1.87   | 19.2   | 1.2   |
|         | 113.0  | 114.0 | 5,207                              | 9,594                | 979                                | 2,811                              | 194                                | 33.9                               | 59.7                               | 4.2                                | 13.3                               | 1.5                                | 2.7                                | 0.3                                | 1.4                                | 0.2                                | 36.8                              | 1.89   | 18.8   | 2.1   |
|         | 114.0  | 115.0 | 4,891                              | 8,918                | 857                                | 2,578                              | 174                                | 30.5                               | 53.7                               | 3.5                                | 11.3                               | 1.2                                | 2.3                                | 0.2                                | 1.3                                | 0.2                                | 33.0                              | 1.76   | 17.9   | 3.6   |
|         | 115.0  | 116.0 | 5,547                              | 9,766                | 936                                | 2,718                              | 184                                | 32.9                               | 60.1                               | 4.3                                | 14.4                               | 1.9                                | 3.4                                | 0.5                                | 2.2                                | 0.3                                | 44.5                              | 1.93   | 20.1   | 2.1   |
|         | 116.0  | 117.0 | 5,266                              | 9,729                | 970                                | 2,799                              | 201                                | 36.8                               | 67.9                               | 5.1                                | 17.7                               | 2.1                                | 3.9                                | 0.5                                | 2.6                                | 0.3                                | 54.6                              | 1.92   | 25.5   | 0.5   |
|         | 117.0  | 118.0 | 3,765                              | 7,039                | 667                                | 2,024                              | 143                                | 24.7                               | 45.1                               | 3.4                                | 12.2                               | 1.7                                | 3.4                                | 0.4                                | 2.5                                | 0.3                                | 45.7                              | 1.38   | 16.9   | 0.3   |
|         | 118.0  | 119.0 | 4,550                              | 8,648                | 832                                | 2,496                              | 175                                | 31.0                               | 56.8                               | 4.1                                | 14.8                               | 1.9                                | 3.8                                | 0.5                                | 2.3                                | 0.3                                | 49.5                              | 1.69   | 16.7   | -0.3  |
|         | 119.0  | 120.0 | 3,190                              | 5,921                | 581                                | 1,779                              | 132                                | 24.0                               | 46.6                               | 3.7                                | 14.0                               | 1.9                                | 3.5                                | 0.4                                | 1.9                                | 0.2                                | 48.3                              | 1.17   | 11.4   | 1.1   |
|         | 120.0  | 121.0 | 4,762                              | 9,029                | 893                                | 2,659                              | 186                                | 33.2                               | 62.6                               | 4.7                                | 16.8                               | 2.0                                | 3.7                                | 0.4                                | 1.9                                | 0.2                                | 52.1                              | 1.77   | 16     | 2.8   |
|         | 121.0  | 122.0 | 3,999                              | 7,678                | 755                                | 2,315                              | 165                                | 30.2                               | 57.2                               | 4.5                                | 16.2                               | 2.1                                | 3.9                                | 0.4                                | 1.8                                | 0.2                                | 52.1                              | 1.51   | 13.6   | 1.2   |
|         | 122.0  | 123.0 | 3,812                              | 7,186                | 703                                | 2,152                              | 161                                | 30.5                               | 57.3                               | 4.5                                | 17.0                               | 2.2                                | 4.4                                | 0.5                                | 2.2                                | 0.2                                | 58.4                              | 1.42   | 13.2   | 2.2   |
|         | 123.0  | 124.0 | 4,597                              | 8,574                | 822                                | 2,543                              | 181                                | 33.5                               | 61.8                               | 4.8                                | 18.1                               | 2.4                                | 4.5                                | 0.5                                | 2.1                                | 0.2                                | 58.4                              | 1.69   | 15.2   | 3.5   |
|         | 124.0  | 125.0 | 4,269                              | 7,727                | 741                                | 2,187                              | 144                                | 25.4                               | 45.8                               | 3.3                                | 11.0                               | 1.3                                | 2.4                                | 0.3                                | 1.4                                | 0.2                                | 33.0                              | 1.52   | 15.4   | 2.7   |
|         | 125.0  | 126.0 | 2,357                              | 4,410                | 429                                | 1,359                              | 120                                | 25.4                               | 55.2                               | 5.1                                | 20.2                               | 2.9                                | 6.2                                | 0.7                                | 3.6                                | 0.5                                | 82.5                              | 0.89   | 30.3   | 7.9   |
|         | 126.0  | 127.0 | 2,721                              | 5,073                | 500                                | 1,569                              | 122                                | 23.7                               | 50.9                               | 4.4                                | 17.9                               | 2.4                                | 4.9                                | 0.6                                | 3.1                                | 0.4                                | 66.0                              | 1.02   | 26     | 9.4   |
|         | 127.0  | 128.0 | 6,392                              | 11,228               | 1,101                              | 3,056                              | 198                                | 34.3                               | 64.2                               | 4.5                                | 14.2                               | 1.7                                | 2.7                                | 0.3                                | 1.5                                | 0.2                                | 41.9                              | 2.21   | 28     | 2.5   |
|         | 128.0  | 129.0 | 5,547                              | 9,790                | 958                                | 2,671                              | 175                                | 30.3                               | 57.3                               | 4.2                                | 13.8                               | 1.7                                | 3.2                                | 0.3                                | 1.4                                | 0.2                                | 43.2                              | 1.93   | 17.2   | 1.6   |
|         | 129.0  | 130.0 | 5,876                              | 9,876                | 930                                | 2,613                              | 166                                | 29.1                               | 52.4                               | 3.7                                | 12.4                               | 1.5                                | 2.7                                | 0.3                                | 1.5                                | 0.2                                | 36.8                              | 1.96   | 16.4   | 1.6   |
|         | 130.0  | 131.0 | 6,697                              | 10,908               | 1,003                              | 2,683                              | 155                                | 24.8                               | 42.4                               | 2.6                                | 7.7                                | 0.9                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 20.3                              | 2.15   | 14.8   | 2.6   |
|         | 131.0  | 132.0 | 6,544                              | 10,233               | 921                                | 2,391                              | 135                                | 22.2                               | 37.3                               | 2.3                                | 6.8                                | 0.9                                | 1.6                                | 0.1                                | 0.8                                | 0.1                                | 19.1                              | 2.03   | 15.2   | 7.2   |
|         | 132.0  | 133.0 | 5,794                              | 9,127                | 764                                | 2,146                              | 128                                | 23.0                               | 40.3                               | 3.1                                | 10.7                               | 1.2                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 29.2                              | 1.81   | 19.6   | 7.5   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 133.0  | 134.0 | 5,618                              | 8,758                | 743                                | 2,105                              | 126                                | 23.4                               | 41.3                               | 3.3                                | 10.8                               | 1.2                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 29.2                              | 1.75   | 19.8   | 7.1   |
|         | 134.0  | 135.0 | 9,242                              | 14,188               | 1,238                              | 3,266                              | 182                                | 31.8                               | 51.9                               | 3.9                                | 11.3                               | 1.2                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 2.82   | 26     | 4     |
|         | 135.0  | 136.0 | 6,685                              | 10,466               | 890                                | 2,484                              | 141                                | 24.0                               | 40.8                               | 2.9                                | 9.5                                | 1.1                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.08   | 19.5   | 3.8   |
|         | 136.0  | 137.0 | 6,802                              | 10,736               | 928                                | 2,554                              | 142                                | 24.1                               | 39.3                               | 2.5                                | 7.8                                | 0.9                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 20.3                              | 2.13   | 15.8   | 2     |
|         | 137.0  | 138.0 | 6,791                              | 10,368               | 846                                | 2,327                              | 128                                | 21.5                               | 36.4                               | 2.5                                | 7.8                                | 0.9                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 2.06   | 14.8   | 3.4   |
|         | 138.0  | 139.0 | 5,043                              | 7,530                | 619                                | 1,668                              | 91                                 | 15.4                               | 25.2                               | 1.8                                | 4.9                                | 0.5                                | 1.0                                | 0.1                                | 0.5                                | 0.1                                | 12.7                              | 1.50   | 10.4   | 3.9   |
|         | 139.0  | 140.0 | 4,222                              | 6,339                | 520                                | 1,452                              | 79                                 | 13.7                               | 22.1                               | 1.7                                | 5.1                                | 0.6                                | 1.1                                | 0.1                                | 0.6                                | 0.1                                | 12.7                              | 1.27   | 10.1   | 1.2   |
|         | 140.0  | 141.0 | 4,175                              | 6,117                | 494                                | 1,330                              | 73                                 | 13.0                               | 23.1                               | 1.6                                | 5.3                                | 0.5                                | 1.0                                | 0.1                                | 0.7                                | 0.1                                | 14.0                              | 1.22   | 9      | 2.8   |
|         | 141.0  | 142.0 | 6,403                              | 11,805               | 1,137                              | 3,324                              | 217                                | 38.0                               | 62.8                               | 4.3                                | 13.8                               | 1.6                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 36.8                              | 2.30   | 33.9   | 1.3   |
|         | 142.0  | 143.0 | 8,303                              | 15,416               | 1,516                              | 4,316                              | 284                                | 50.7                               | 86.7                               | 6.1                                | 20.0                               | 2.3                                | 4.1                                | 0.4                                | 1.9                                | 0.3                                | 50.8                              | 3.01   | 45.5   | 1.4   |
|         | 143.0  | 144.0 | 1,918                              | 3,132                | 267                                | 777                                | 52                                 | 10.1                               | 18.4                               | 1.8                                | 7.0                                | 0.9                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 0.62   | 11.6   | 1     |
|         | 144.0  | 145.0 | 2,393                              | 3,501                | 283                                | 793                                | 47                                 | 9.0                                | 17.9                               | 1.8                                | 7.7                                | 1.0                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 0.71   | 15.8   | 1.6   |
|         | 145.0  | 146.0 | 1,871                              | 3,071                | 262                                | 771                                | 59                                 | 12.9                               | 27.0                               | 3.0                                | 12.4                               | 1.6                                | 2.6                                | 0.2                                | 1.3                                | 0.2                                | 39.4                              | 0.61   | 30.2   | 1.9   |
|         | 146.0  | 147.0 | 2,920                              | 4,521                | 378                                | 1,071                              | 64                                 | 12.3                               | 24.9                               | 2.5                                | 9.9                                | 1.3                                | 2.1                                | 0.3                                | 1.3                                | 0.2                                | 30.5                              | 0.90   | 18.1   | 1.5   |
|         | 147.0  | 148.0 | 3,049                              | 4,484                | 365                                | 1,021                              | 65                                 | 13.2                               | 26.1                               | 2.5                                | 9.6                                | 1.1                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 0.91   | 26.8   | 1.8   |
|         | 148.0  | 149.0 | 3,730                              | 5,233                | 412                                | 1,121                              | 69                                 | 13.9                               | 27.7                               | 2.5                                | 8.8                                | 1.1                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 1.07   | 22.9   | 1.5   |
|         | 149.0  | 150.0 | 2,281                              | 3,206                | 250                                | 681                                | 39                                 | 7.6                                | 14.8                               | 1.3                                | 5.5                                | 0.7                                | 1.5                                | 0.2                                | 0.9                                | 0.2                                | 19.1                              | 0.65   | 8.5    | 0.8   |
|         | 150.0  | 151.0 | 15,364                             | 21,128               | 1,722                              | 4,222                              | 217                                | 37.9                               | 62.1                               | 4.4                                | 12.2                               | 1.2                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 4.28   | 36.8   | 1     |
|         | 151.0  | 152.0 | 2,545                              | 3,513                | 274                                | 733                                | 42                                 | 8.2                                | 14.4                               | 1.3                                | 5.5                                | 0.7                                | 1.6                                | 0.2                                | 1.3                                | 0.1                                | 20.3                              | 0.72   | 9.3    | 1.3   |
|         | 152.0  | 153.0 | 2,662                              | 3,685                | 274                                | 724                                | 40                                 | 7.6                                | 14.4                               | 1.3                                | 4.9                                | 0.7                                | 1.5                                | 0.2                                | 0.9                                | 0.1                                | 16.5                              | 0.74   | 12.8   | 0.9   |
|         | 153.0  | 154.0 | 318                                | 571                  | 54                                 | 176                                | 18                                 | 4.4                                | 9.8                                | 1.2                                | 6.3                                | 0.9                                | 1.8                                | 0.2                                | 1.3                                | 0.2                                | 24.1                              | 0.12   | 8.6    | 1.4   |
|         | 154.0  | 155.0 | 321                                | 555                  | 51                                 | 160                                | 14                                 | 3.6                                | 8.3                                | 0.9                                | 4.9                                | 0.7                                | 1.6                                | 0.2                                | 1.1                                | 0.1                                | 21.6                              | 0.11   | 6.2    | 1     |
|         | 155.0  | 156.0 | 284                                | 527                  | 51                                 | 166                                | 18                                 | 4.6                                | 9.8                                | 1.2                                | 6.2                                | 1.0                                | 2.3                                | 0.2                                | 1.6                                | 0.2                                | 29.2                              | 0.11   | 5.1    | 1.9   |
|         | 156.0  | 157.0 | 323                                | 565                  | 54                                 | 171                                | 18                                 | 4.6                                | 10.8                               | 1.4                                | 7.0                                | 1.2                                | 2.6                                | 0.3                                | 1.9                                | 0.3                                | 35.6                              | 0.12   | 4.1    | 2.9   |
|         | 157.0  | 158.0 | 1,037                              | 1,658                | 136                                | 405                                | 35                                 | 8.5                                | 17.9                               | 1.8                                | 9.0                                | 1.4                                | 3.1                                | 0.3                                | 2.3                                | 0.3                                | 38.1                              | 0.34   | 8.5    | 3.1   |
|         | 158.0  | 159.0 | 718                                | 1,095                | 83                                 | 223                                | 12                                 | 1.9                                | 2.9                                | 0.2                                | 0.8                                | 0.1                                | 0.2                                | -0.1                               | 0.2                                | -0.1                               | -3.8                              | 0.21   | 3.3    | 0.4   |
|         | 159.0  | 160.0 | 475                                | 760                  | 64                                 | 177                                | 10                                 | 1.7                                | 2.9                                | 0.2                                | 0.7                                | 0.1                                | -0.2                               | -0.1                               | 0.2                                | -0.1                               | -3.8                              | 0.15   | 4      | 0.5   |
|         | 160.0  | 161.0 | 1,448                              | 2,058                | 159                                | 428                                | 22                                 | 3.6                                | 6.3                                | 0.4                                | 1.0                                | 0.1                                | 0.2                                | -0.1                               | -0.2                               | -0.1                               | -3.8                              | 0.41   | 4.9    | 0.6   |
|         | 161.0  | 162.0 | 12,432                             | 17,198               | 1,395                              | 3,441                              | 175                                | 31.3                               | 51.5                               | 3.4                                | 8.4                                | 0.7                                | 1.1                                | 0.1                                | 0.3                                | 0.1                                | 15.2                              | 3.48   | 24.3   | 0.5   |
|         | 162.0  | 163.0 | 8,198                              | 11,486               | 950                                | 2,403                              | 132                                | 23.4                               | 44.1                               | 3.5                                | 9.6                                | 1.2                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 27.9                              | 2.33   | 22.1   | 0.8   |
|         | 163.0  | 164.0 | 4,808                              | 6,609                | 515                                | 1,388                              | 77                                 | 13.9                               | 26.7                               | 2.2                                | 6.9                                | 0.8                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 21.6                              | 1.35   | 14.4   | 0.9   |
|         | 164.0  | 165.0 | 1,789                              | 2,506                | 195                                | 532                                | 33                                 | 6.7                                | 15.1                               | 1.7                                | 7.0                                | 1.1                                | 2.3                                | 0.3                                | 1.5                                | 0.2                                | 30.5                              | 0.51   | 5.4    | 1.5   |
|         | 165.0  | 166.0 | 2,721                              | 3,771                | 297                                | 811                                | 51                                 | 9.6                                | 20.1                               | 1.8                                | 6.8                                | 1.0                                | 1.9                                | 0.2                                | 1.3                                | 0.2                                | 25.4                              | 0.77   | 12.7   | 1     |
|         | 166.0  | 167.0 | 1,402                              | 2,039                | 155                                | 422                                | 24                                 | 3.9                                | 7.6                                | 0.7                                | 2.6                                | 0.4                                | 0.8                                | 0.1                                | 0.7                                | 0.1                                | 11.4                              | 0.41   | 3      | 0.6   |
|         | 167.0  | 168.0 | 2,176                              | 3,046                | 235                                | 626                                | 36                                 | 6.0                                | 11.4                               | 1.0                                | 3.3                                | 0.5                                | 1.0                                | 0.2                                | 0.8                                | 0.1                                | 12.7                              | 0.62   | 4.4    | 0.8   |
|         | 168.0  | 169.0 | 13,604                             | 18,856               | 1,559                              | 3,942                              | 201                                | 32.9                               | 57.9                               | 3.9                                | 9.1                                | 1.0                                | 1.5                                | 0.1                                | 0.5                                | 0.1                                | 19.1                              | 3.83   | 25.1   | 0.5   |
|         | 169.0  | 170.0 | 1,730                              | 2,414                | 187                                | 516                                | 31                                 | 5.0                                | 9.6                                | 0.6                                | 2.1                                | 0.2                                | 0.5                                | -0.1                               | 0.2                                | -0.1                               | 6.4                               | 0.49   | 4.5    | 0.4   |
|         | 170.0  | 171.0 | 1,489                              | 2,107                | 166                                | 465                                | 31                                 | 6.0                                | 11.3                               | 1.1                                | 3.7                                | 0.6                                | 1.1                                | 0.2                                | 0.8                                | 0.1                                | 14.0                              | 0.43   | 4.2    | 0.5   |
|         | 171.0  | 172.0 | 878                                | 1,511                | 129                                | 392                                | 29                                 | 5.8                                | 12.7                               | 1.2                                | 5.2                                | 0.9                                | 1.9                                | 0.2                                | 1.4                                | 0.2                                | 22.9                              | 0.30   | 5.1    | 0.7   |
|         | 172.0  | 173.0 | 1,777                              | 2,641                | 215                                | 622                                | 44                                 | 8.6                                | 17.8                               | 1.7                                | 7.1                                | 1.2                                | 2.3                                | 0.3                                | 1.4                                | 0.2                                | 29.2                              | 0.54   | 7.7    | 0.8   |
|         | 173.0  | 174.0 | 9,465                              | 15,232               | 1,371                              | 3,791                              | 241                                | 41.3                               | 75.7                               | 5.2                                | 14.5                               | 1.7                                | 2.7                                | 0.2                                | 1.3                                | 0.2                                | 34.3                              | 3.03   | 33.6   | 1.3   |
|         | 174.0  | 175.0 | 7,271                              | 11,400               | 994                                | 2,636                              | 143                                | 23.0                               | 41.5                               | 2.9                                | 7.2                                | 0.9                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 20.3                              | 2.25   | 17.2   | 1.8   |
|         | 175.0  | 176.0 | 7,740                              | 12,075               | 1,096                              | 2,846                              | 154                                | 23.7                               | 40.6                               | 2.9                                | 7.4                                | 0.9                                | 1.6                                | 0.2                                | 0.7                                | 0.1                                | 19.1                              | 2.40   | 16.4   | 1.8   |
|         | 176.0  | 177.0 | 5,841                              | 9,115                | 768                                | 2,175                              | 126                                | 20.3                               | 38.4                               | 2.9                                | 9.4                                | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 26.7                              | 1.81   | 17.9   | 2.3   |
|         | 177.0  | 178.0 | 8,010                              | 12,898               | 1,159                              | 3,126                              | 168                                | 25.5                               | 44.4                               | 2.9                                | 7.2                                | 0.9                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 17.8                              | 2.55   | 18.2   | 0.9   |
|         | 178.0  | 179.0 | 5,418                              | 8,844                | 772                                | 2,193                              | 119                                | 18.1                               | 30.4                               | 2.0                                | 4.9                                | 0.6                                | 1.0                                | 0.1                                | 0.5                                | 0.1                                | 12.7                              | 1.74   | 13.2   | 6.7   |

| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 179.0  | 180.0 | 7,342                              | 11,719               | 1,045                              | 2,811                              | 153                                | 24.0                               | 42.1                               | 2.7                                | 8.0                                | 0.9                                | 1.5                                | 0.1                                | 0.6                                | 0.1                                | 19.1                              | 2.32   | 18     | 4.6   |
|                 | 180.0  | 181.0 | 7,131                              | 10,810               | 889                                | 2,403                              | 128                                | 19.1                               | 32.0                               | 2.2                                | 5.9                                | 0.7                                | 1.3                                | 0.1                                | 0.6                                | 0.1                                | 16.5                              | 2.14   | 15.8   | 1.9   |
| <b>KGKRC039</b> | 0.0    | 1.0   | 5,442                              | 10,208               | 1,000                              | 3,161                              | 247                                | 45.0                               | 79.4                               | 6.6                                | 20.3                               | 2.0                                | 3.4                                | 0.3                                | 1.5                                | 0.2                                | 49.5                              | 2.03   | 67.2   | 6     |
|                 | 1.0    | 2.0   | 7,963                              | 16,338               | 1,643                              | 5,202                              | 363                                | 60.0                               | 98.4                               | 7.6                                | 22.8                               | 2.3                                | 3.5                                | 0.4                                | 1.4                                | 0.3                                | 54.6                              | 3.18   | 68.6   | 2.5   |
|                 | 2.0    | 3.0   | 12,373                             | 25,919               | 2,670                              | 8,445                              | 543                                | 86.8                               | 135.4                              | 9.3                                | 23.9                               | 2.4                                | 3.9                                | 0.4                                | 2.2                                | 0.2                                | 49.5                              | 5.03   | 61.5   | 2.9   |
|                 | 3.0    | 4.0   | 16,947                             | 34,150               | 3,468                              | 10,673                             | 661                                | 104.2                              | 173.5                              | 12.9                               | 37.0                               | 4.1                                | 6.0                                | 0.6                                | 2.5                                | 0.3                                | 92.7                              | 6.63   | 101    | 2.3   |
|                 | 4.0    | 5.0   | 13,253                             | 27,025               | 2,803                              | 8,375                              | 540                                | 88.0                               | 154.5                              | 11.9                               | 36.5                               | 3.6                                | 5.6                                | 0.4                                | 2.1                                | 0.3                                | 83.8                              | 5.24   | 104.5  | 4.8   |
|                 | 5.0    | 6.0   | 16,536                             | 32,798               | 3,226                              | 9,693                              | 629                                | 108.5                              | 190.2                              | 14.5                               | 42.9                               | 4.2                                | 6.8                                | 0.5                                | 2.5                                | 0.4                                | 97.8                              | 6.34   | 125    | 3.9   |
|                 | 6.0    | 7.0   | 10,368                             | 20,084               | 1,933                              | 5,797                              | 392                                | 69.9                               | 125.6                              | 10.6                               | 31.8                               | 3.2                                | 4.7                                | 0.4                                | 1.9                                | 0.3                                | 76.2                              | 3.89   | 88.6   | 4.4   |
|                 | 7.0    | 8.0   | 11,247                             | 21,866               | 2,102                              | 6,205                              | 399                                | 68.8                               | 118.7                              | 9.5                                | 27.8                               | 2.8                                | 4.5                                | 0.4                                | 1.6                                | 0.2                                | 66.0                              | 4.21   | 75.3   | 4.3   |
|                 | 8.0    | 9.0   | 8,855                              | 16,706               | 1,601                              | 4,701                              | 305                                | 51.5                               | 88.1                               | 6.5                                | 19.4                               | 2.0                                | 3.3                                | 0.3                                | 1.3                                | 0.2                                | 48.3                              | 3.24   | 45.2   | 1.8   |
|                 | 9.0    | 10.0  | 9,031                              | 16,829               | 1,613                              | 4,841                              | 310                                | 52.8                               | 91.9                               | 6.6                                | 20.9                               | 2.1                                | 3.2                                | 0.2                                | 1.0                                | 0.1                                | 47.0                              | 3.28   | 43     | 1.6   |
|                 | 10.0   | 11.0  | 10,895                             | 20,453               | 1,933                              | 5,727                              | 369                                | 60.7                               | 101.9                              | 6.9                                | 20.2                               | 2.1                                | 3.3                                | 0.3                                | 1.1                                | 0.2                                | 49.5                              | 3.96   | 50.2   | 3.5   |
|                 | 11.0   | 12.0  | 6,063                              | 12,063               | 1,183                              | 3,616                              | 235                                | 38.8                               | 63.9                               | 4.3                                | 12.4                               | 1.3                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 33.0                              | 2.33   | 32.5   | 2.1   |
|                 | 12.0   | 13.0  | 5,149                              | 10,368               | 1,016                              | 3,091                              | 202                                | 33.5                               | 55.4                               | 3.9                                | 11.1                               | 1.2                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 27.9                              | 2.00   | 29.1   | 1.8   |
|                 | 13.0   | 14.0  | 9,465                              | 18,672               | 1,812                              | 5,400                              | 350                                | 58.1                               | 99.6                               | 7.1                                | 21.9                               | 2.4                                | 4.0                                | 0.3                                | 1.7                                | 0.2                                | 54.6                              | 3.59   | 52.7   | 3.4   |
|                 | 14.0   | 15.0  | 14,836                             | 29,727               | 2,924                              | 8,853                              | 547                                | 90.4                               | 145.2                              | 9.8                                | 28.7                               | 3.1                                | 5.7                                | 0.6                                | 3.2                                | 0.4                                | 73.7                              | 5.72   | 70.1   | 5.3   |
|                 | 15.0   | 16.0  | 22,518                             | 42,994               | 4,108                              | 12,072                             | 739                                | 125.1                              | 208.6                              | 14.4                               | 40.2                               | 3.9                                | 6.1                                | 0.5                                | 2.4                                | 0.3                                | 86.4                              | 8.29   | 104.5  | 4.1   |
|                 | 16.0   | 17.0  | 20,407                             | 38,695               | 3,709                              | 10,953                             | 677                                | 112.9                              | 190.2                              | 14.1                               | 42.8                               | 4.4                                | 7.3                                | 0.7                                | 3.4                                | 0.5                                | 102.9                             | 7.49   | 104.5  | 4.6   |
|                 | 17.0   | 18.0  | 19,234                             | 36,975               | 3,552                              | 10,334                             | 639                                | 109.8                              | 188.5                              | 13.9                               | 41.6                               | 4.4                                | 7.8                                | 0.7                                | 4.3                                | 0.6                                | 109.2                             | 7.12   | 102.5  | 5.3   |
|                 | 18.0   | 19.0  | 15,481                             | 29,359               | 2,779                              | 7,990                              | 493                                | 84.5                               | 144.1                              | 10.5                               | 31.3                               | 3.1                                | 5.4                                | 0.5                                | 2.7                                | 0.4                                | 72.4                              | 5.65   | 76     | 4.2   |
|                 | 19.0   | 20.0  | 12,901                             | 23,892               | 2,265                              | 6,590                              | 412                                | 70.2                               | 119.3                              | 8.8                                | 27.8                               | 3.0                                | 5.2                                | 0.5                                | 2.7                                | 0.3                                | 73.7                              | 4.64   | 68.5   | 3.6   |
|                 | 20.0   | 21.0  | 9,171                              | 17,566               | 1,685                              | 5,086                              | 383                                | 72.8                               | 134.3                              | 10.9                               | 32.5                               | 3.3                                | 5.2                                | 0.4                                | 2.1                                | 0.3                                | 78.7                              | 3.42   | 112    | 3.9   |
|                 | 21.0   | 22.0  | 11,083                             | 23,094               | 2,332                              | 7,068                              | 470                                | 79.6                               | 135.4                              | 9.7                                | 27.9                               | 2.7                                | 4.4                                | 0.4                                | 1.6                                | 0.2                                | 63.5                              | 4.44   | 85.6   | 2.6   |
|                 | 22.0   | 23.0  | 12,197                             | 25,059               | 2,513                              | 7,488                              | 486                                | 83.1                               | 140.6                              | 10.4                               | 30.5                               | 3.1                                | 4.5                                | 0.4                                | 1.6                                | 0.2                                | 71.1                              | 4.81   | 91.3   | 2.1   |
|                 | 23.0   | 24.0  | 11,963                             | 24,937               | 2,549                              | 7,698                              | 488                                | 79.8                               | 132.0                              | 9.4                                | 26.9                               | 2.8                                | 4.7                                | 0.4                                | 2.2                                | 0.3                                | 64.8                              | 4.80   | 71.5   | 4.6   |
|                 | 24.0   | 25.0  | 10,227                             | 21,067               | 2,072                              | 6,310                              | 392                                | 63.2                               | 102.5                              | 7.0                                | 20.4                               | 2.1                                | 3.8                                | 0.3                                | 1.6                                | 0.2                                | 50.8                              | 4.03   | 53.1   | 2.1   |
|                 | 25.0   | 26.0  | 12,197                             | 24,937               | 2,453                              | 7,547                              | 495                                | 80.5                               | 136.0                              | 9.4                                | 27.4                               | 2.8                                | 4.7                                | 0.4                                | 1.8                                | 0.2                                | 68.6                              | 4.80   | 80.9   | 2.9   |
|                 | 26.0   | 27.0  | 13,311                             | 26,902               | 2,706                              | 8,246                              | 551                                | 93.6                               | 156.8                              | 10.4                               | 30.5                               | 3.1                                | 5.2                                | 0.4                                | 2.1                                | 0.2                                | 69.8                              | 5.21   | 95.2   | 4.8   |
|                 | 27.0   | 28.0  | 15,305                             | 30,341               | 2,984                              | 8,818                              | 540                                | 87.5                               | 145.8                              | 10.8                               | 33.7                               | 3.6                                | 6.2                                | 0.5                                | 2.5                                | 0.3                                | 83.8                              | 5.84   | 81.3   | 4.2   |
|                 | 28.0   | 29.0  | 12,901                             | 26,288               | 2,561                              | 7,535                              | 459                                | 73.9                               | 122.2                              | 8.7                                | 28.0                               | 2.9                                | 5.0                                | 0.5                                | 2.1                                | 0.3                                | 67.3                              | 5.01   | 63     | 11.5  |
|                 | 29.0   | 30.0  | 8,280                              | 16,706               | 1,631                              | 4,864                              | 297                                | 47.9                               | 77.3                               | 5.3                                | 15.5                               | 1.7                                | 2.7                                | 0.2                                | 1.3                                | 0.2                                | 38.1                              | 3.20   | 37     | 2.3   |
|                 | 30.0   | 31.0  | 7,283                              | 15,048               | 1,474                              | 4,491                              | 279                                | 44.9                               | 72.7                               | 5.1                                | 15.6                               | 1.6                                | 2.7                                | 0.2                                | 1.1                                | 0.2                                | 38.1                              | 2.88   | 38.1   | 2.3   |
|                 | 31.0   | 32.0  | 5,454                              | 11,166               | 1,089                              | 3,289                              | 206                                | 33.6                               | 54.5                               | 3.6                                | 11.1                               | 1.3                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 29.2                              | 2.13   | 25.6   | 2.3   |
|                 | 32.0   | 33.0  | 5,606                              | 12,112               | 1,244                              | 4,001                              | 305                                | 54.2                               | 90.9                               | 6.0                                | 17.2                               | 1.9                                | 2.9                                | 0.3                                | 1.1                                | 0.2                                | 39.4                              | 2.35   | 55.9   | 2.5   |
|                 | 33.0   | 34.0  | 9,617                              | 19,654               | 1,945                              | 5,914                              | 366                                | 58.6                               | 92.9                               | 5.9                                | 16.5                               | 1.7                                | 2.9                                | 0.2                                | 1.1                                | 0.2                                | 36.8                              | 3.77   | 42.9   | 1.4   |
|                 | 34.0   | 35.0  | 7,834                              | 16,399               | 1,649                              | 5,039                              | 311                                | 48.9                               | 77.9                               | 4.5                                | 11.9                               | 1.3                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 3.14   | 33.4   | 1.1   |
|                 | 35.0   | 36.0  | 8,503                              | 18,057               | 1,861                              | 5,867                              | 399                                | 58.2                               | 91.1                               | 5.7                                | 14.9                               | 1.6                                | 2.4                                | 0.2                                | 1.0                                | 0.2                                | 33.0                              | 3.49   | 38.2   | 1.9   |
|                 | 36.0   | 37.0  | 5,712                              | 13,021               | 1,402                              | 4,561                              | 322                                | 46.0                               | 71.6                               | 4.4                                | 11.0                               | 1.2                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 2.52   | 29.2   | 0.8   |
|                 | 37.0   | 38.0  | 5,137                              | 11,350               | 1,208                              | 3,942                              | 282                                | 40.6                               | 65.0                               | 4.1                                | 11.4                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 25.4                              | 2.21   | 27.5   | 1.1   |
|                 | 38.0   | 39.0  | 3,812                              | 8,329                | 905                                | 3,079                              | 273                                | 43.9                               | 74.5                               | 4.9                                | 14.8                               | 1.5                                | 2.4                                | 0.3                                | 1.1                                | 0.1                                | 34.3                              | 1.66   | 48.4   | 1.6   |
|                 | 39.0   | 40.0  | 5,629                              | 12,591               | 1,359                              | 4,456                              | 327                                | 50.6                               | 77.6                               | 5.1                                | 13.5                               | 1.3                                | 2.6                                | 0.2                                | 0.9                                | 0.1                                | 30.5                              | 2.45   | 35.6   | 0.9   |
|                 | 40.0   | 41.0  | 5,160                              | 11,866               | 1,299                              | 4,292                              | 297                                | 45.5                               | 73.3                               | 4.2                                | 12.1                               | 1.2                                | 1.8                                | 0.2                                | 0.7                                | 0.1                                | 25.4                              | 2.31   | 30.9   | 0.9   |
|                 | 41.0   | 42.0  | 5,829                              | 13,697               | 1,510                              | 5,051                              | 353                                | 53.0                               | 84.7                               | 5.1                                | 14.1                               | 1.5                                | 2.4                                | 0.2                                | 1.0                                | 0.1                                | 31.8                              | 2.66   | 37.3   | 1.5   |
|                 | 42.0   | 43.0  | 4,199                              | 9,704                | 1,079                              | 3,628                              | 262                                | 41.1                               | 66.0                               | 4.1                                | 11.7                               | 1.2                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 27.9                              | 1.90   | 32.2   | 1.2   |
|                 | 43.0   | 44.0  | 6,920                              | 15,478               | 1,685                              | 5,529                              | 402                                | 62.2                               | 99.0                               | 6.6                                | 19.2                               | 2.0                                | 3.2                                | 0.2                                | 1.4                                | 0.2                                | 43.2                              | 3.03   | 50.7   | 2.1   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 44.0   | 45.0 | 7,658                              | 16,829               | 1,800                              | 5,867                              | 408                                | 63.1                               | 101.2                              | 6.3                                | 16.9                               | 1.8                                | 3.1                                | 0.3                                | 1.5                                | 0.2                                | 40.6                              | 3.28   | 45.8   | 2.6   |
|         | 45.0   | 46.0 | 6,626                              | 14,434               | 1,547                              | 5,086                              | 372                                | 56.3                               | 91.9                               | 5.6                                | 15.4                               | 1.6                                | 2.7                                | 0.3                                | 1.1                                | 0.2                                | 33.0                              | 2.83   | 36.7   | 1.4   |
|         | 46.0   | 47.0 | 6,521                              | 14,372               | 1,528                              | 5,039                              | 368                                | 57.8                               | 91.8                               | 5.7                                | 16.1                               | 1.7                                | 2.6                                | 0.2                                | 1.3                                | 0.2                                | 38.1                              | 2.80   | 43     | 0.9   |
|         | 47.0   | 48.0 | 5,090                              | 12,112               | 1,395                              | 4,899                              | 386                                | 60.3                               | 93.8                               | 5.8                                | 14.5                               | 1.5                                | 2.9                                | 0.2                                | 1.3                                | 0.2                                | 33.0                              | 2.41   | 39.5   | 0.5   |
|         | 48.0   | 49.0 | 6,568                              | 16,153               | 1,836                              | 6,450                              | 510                                | 79.3                               | 121.6                              | 6.7                                | 17.8                               | 1.7                                | 2.9                                | 0.2                                | 1.1                                | 0.2                                | 36.8                              | 3.18   | 55     | 0.8   |
|         | 49.0   | 50.0 | 4,410                              | 10,650               | 1,214                              | 4,199                              | 314                                | 46.8                               | 73.8                               | 4.3                                | 11.6                               | 1.2                                | 2.2                                | 0.2                                | 0.8                                | 0.2                                | 26.7                              | 2.10   | 30.6   | 1.5   |
|         | 50.0   | 51.0 | 5,442                              | 13,942               | 1,655                              | 5,820                              | 451                                | 68.7                               | 106.0                              | 6.0                                | 14.6                               | 1.5                                | 2.6                                | 0.2                                | 1.0                                | 0.2                                | 30.5                              | 2.75   | 40.8   | 1.3   |
|         | 51.0   | 52.0 | 6,450                              | 15,478               | 1,758                              | 6,054                              | 451                                | 68.1                               | 103.6                              | 5.8                                | 14.6                               | 1.4                                | 2.4                                | 0.3                                | 1.1                                | 0.2                                | 30.5                              | 3.04   | 44.4   | 1.1   |
|         | 52.0   | 53.0 | 5,794                              | 13,267               | 1,468                              | 4,981                              | 371                                | 58.6                               | 92.3                               | 5.4                                | 14.6                               | 1.5                                | 2.5                                | 0.3                                | 1.1                                | 0.3                                | 34.3                              | 2.61   | 39.6   | 1.7   |
|         | 53.0   | 54.0 | 6,755                              | 15,232               | 1,667                              | 5,622                              | 426                                | 65.7                               | 103.5                              | 6.2                                | 15.8                               | 1.6                                | 2.4                                | 0.3                                | 1.1                                | 0.2                                | 34.3                              | 2.99   | 45.1   | 2.2   |
|         | 54.0   | 55.0 | 5,149                              | 11,326               | 1,226                              | 4,129                              | 304                                | 47.4                               | 77.0                               | 4.6                                | 12.1                               | 1.3                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 27.9                              | 2.23   | 32.9   | 1.8   |
|         | 55.0   | 56.0 | 4,762                              | 11,228               | 1,238                              | 4,176                              | 305                                | 46.1                               | 69.4                               | 3.9                                | 10.0                               | 1.1                                | 1.8                                | 0.2                                | 1.0                                | 0.2                                | 22.9                              | 2.19   | 28.2   | 1.4   |
|         | 56.0   | 57.0 | 4,633                              | 11,092               | 1,281                              | 4,409                              | 337                                | 51.2                               | 79.4                               | 4.8                                | 12.5                               | 1.3                                | 2.3                                | 0.2                                | 1.0                                | 0.2                                | 27.9                              | 2.19   | 36     | 1.6   |
|         | 57.0   | 58.0 | 9,699                              | 22,664               | 2,658                              | 8,585                              | 647                                | 99.6                               | 155.6                              | 9.5                                | 24.3                               | 2.4                                | 3.9                                | 0.4                                | 1.6                                | 0.3                                | 53.3                              | 4.46   | 68.9   | 2.6   |
|         | 58.0   | 59.0 | 7,647                              | 16,583               | 1,788                              | 5,960                              | 451                                | 71.0                               | 115.8                              | 7.2                                | 18.7                               | 1.9                                | 3.1                                | 0.3                                | 1.5                                | 0.2                                | 41.9                              | 3.27   | 53.2   | 1.6   |
|         | 59.0   | 60.0 | 7,447                              | 16,522               | 1,800                              | 5,995                              | 439                                | 69.5                               | 108.3                              | 6.9                                | 17.7                               | 1.8                                | 3.1                                | 0.3                                | 1.5                                | 0.3                                | 41.9                              | 3.25   | 50.4   | 3.4   |
|         | 60.0   | 61.0 | 5,184                              | 11,510               | 1,244                              | 4,164                              | 305                                | 47.4                               | 78.8                               | 5.2                                | 14.5                               | 1.6                                | 2.7                                | 0.3                                | 1.4                                | 0.2                                | 35.6                              | 2.26   | 45.5   | 3.7   |
|         | 61.0   | 62.0 | 5,712                              | 13,205               | 1,492                              | 5,190                              | 388                                | 60.2                               | 95.1                               | 5.3                                | 14.0                               | 1.4                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 30.5                              | 2.62   | 46.9   | 2.8   |
|         | 62.0   | 63.0 | 5,899                              | 13,574               | 1,540                              | 5,202                              | 390                                | 60.0                               | 94.6                               | 5.7                                | 14.5                               | 1.5                                | 2.4                                | 0.3                                | 1.4                                | 0.2                                | 33.0                              | 2.68   | 47.4   | 1.9   |
|         | 63.0   | 64.0 | 6,192                              | 15,539               | 1,824                              | 6,520                              | 540                                | 84.4                               | 136.0                              | 7.5                                | 20.3                               | 1.8                                | 2.7                                | 0.2                                | 1.1                                | 0.2                                | 40.6                              | 3.09   | 70     | 1.1   |
|         | 64.0   | 65.0 | 5,067                              | 12,591               | 1,486                              | 5,016                              | 393                                | 62.5                               | 99.8                               | 6.2                                | 14.6                               | 1.4                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 29.2                              | 2.48   | 44.8   | 1.7   |
|         | 65.0   | 66.0 | 5,196                              | 12,653               | 1,480                              | 4,887                              | 369                                | 58.4                               | 92.9                               | 5.9                                | 14.6                               | 1.5                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 33.0                              | 2.48   | 43.2   | 3.1   |
|         | 66.0   | 67.0 | 6,591                              | 15,969               | 1,903                              | 6,369                              | 474                                | 72.8                               | 114.3                              | 6.9                                | 17.2                               | 1.6                                | 2.7                                | 0.3                                | 1.0                                | 0.2                                | 34.3                              | 3.16   | 54     | 1.6   |
|         | 67.0   | 68.0 | 4,656                              | 11,240               | 1,323                              | 4,327                              | 318                                | 49.0                               | 78.0                               | 4.9                                | 12.3                               | 1.3                                | 2.2                                | 0.2                                | 1.4                                | 0.2                                | 26.7                              | 2.20   | 33.1   | 1.6   |
|         | 68.0   | 69.0 | 8,784                              | 21,313               | 2,453                              | 7,955                              | 584                                | 89.0                               | 145.2                              | 9.2                                | 23.2                               | 2.3                                | 3.2                                | 0.3                                | 1.1                                | 0.2                                | 44.5                              | 4.14   | 77.4   | 1.5   |
|         | 69.0   | 70.0 | 5,676                              | 14,004               | 1,643                              | 5,365                              | 370                                | 57.0                               | 89.6                               | 5.5                                | 13.4                               | 1.4                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 27.9                              | 2.73   | 38.3   | 1.8   |
|         | 70.0   | 71.0 | 6,368                              | 15,601               | 1,836                              | 6,030                              | 446                                | 68.6                               | 107.9                              | 6.7                                | 16.8                               | 1.6                                | 2.4                                | 0.2                                | 0.9                                | 0.2                                | 31.8                              | 3.05   | 50.4   | 1.2   |
|         | 71.0   | 72.0 | 8,503                              | 21,374               | 2,586                              | 8,561                              | 686                                | 110.2                              | 171.7                              | 10.6                               | 26.1                               | 2.4                                | 3.7                                | 0.3                                | 1.5                                | 0.2                                | 47.0                              | 4.21   | 79.9   | 2     |
|         | 72.0   | 73.0 | 5,747                              | 13,942               | 1,619                              | 5,260                              | 363                                | 54.5                               | 85.0                               | 5.1                                | 12.6                               | 1.3                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 26.7                              | 2.71   | 33.8   | 1.3   |
|         | 73.0   | 74.0 | 6,134                              | 15,232               | 1,770                              | 5,832                              | 417                                | 64.3                               | 101.5                              | 6.2                                | 16.1                               | 1.6                                | 2.6                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 2.96   | 46.9   | 1.2   |
|         | 74.0   | 75.0 | 6,216                              | 14,495               | 1,661                              | 5,342                              | 375                                | 56.0                               | 87.9                               | 5.5                                | 13.8                               | 1.4                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 2.83   | 38.5   | 1.5   |
|         | 75.0   | 76.0 | 5,043                              | 12,284               | 1,462                              | 4,864                              | 355                                | 54.0                               | 84.0                               | 5.0                                | 12.4                               | 1.2                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 26.7                              | 2.42   | 36.6   | 1.9   |
|         | 76.0   | 77.0 | 4,750                              | 12,087               | 1,450                              | 4,887                              | 382                                | 60.4                               | 97.4                               | 6.2                                | 15.6                               | 1.5                                | 2.5                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 2.38   | 49.7   | 2.2   |
|         | 77.0   | 78.0 | 3,941                              | 9,729                | 1,131                              | 3,686                              | 260                                | 39.5                               | 61.9                               | 3.8                                | 10.0                               | 1.1                                | 2.1                                | 0.2                                | 1.3                                | 0.2                                | 22.9                              | 1.89   | 27.2   | 3     |
|         | 78.0   | 79.0 | 4,762                              | 11,621               | 1,347                              | 4,479                              | 343                                | 51.9                               | 79.5                               | 5.0                                | 13.1                               | 1.3                                | 2.4                                | 0.2                                | 1.4                                | 0.2                                | 39.4                              | 2.27   | 36.9   | 2.3   |
|         | 79.0   | 80.0 | 4,480                              | 11,596               | 1,426                              | 4,922                              | 404                                | 63.3                               | 101.7                              | 6.2                                | 16.3                               | 1.7                                | 2.7                                | 0.3                                | 1.3                                | 0.2                                | 34.3                              | 2.31   | 52.5   | 3.2   |
|         | 80.0   | 81.0 | 4,363                              | 10,454               | 1,192                              | 3,907                              | 276                                | 41.8                               | 66.5                               | 4.4                                | 11.0                               | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 2.03   | 30.8   | 1.2   |
|         | 81.0   | 82.0 | 4,738                              | 11,461               | 1,329                              | 4,246                              | 297                                | 43.9                               | 68.5                               | 4.3                                | 11.1                               | 1.2                                | 1.9                                | 0.2                                | 1.1                                | 0.2                                | 24.1                              | 2.22   | 30.2   | 1.6   |
|         | 82.0   | 83.0 | 5,055                              | 12,014               | 1,365                              | 4,456                              | 312                                | 46.3                               | 74.5                               | 4.6                                | 12.3                               | 1.3                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 27.9                              | 2.34   | 34.2   | 2.9   |
|         | 83.0   | 84.0 | 4,468                              | 11,338               | 1,347                              | 4,502                              | 341                                | 51.5                               | 81.4                               | 4.9                                | 12.2                               | 1.3                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 2.22   | 36.1   | 3.2   |
|         | 84.0   | 85.0 | 4,703                              | 11,191               | 1,281                              | 4,211                              | 305                                | 46.8                               | 74.3                               | 4.5                                | 11.8                               | 1.3                                | 2.3                                | 0.2                                | 1.3                                | 0.2                                | 26.7                              | 2.19   | 33.6   | 3.3   |
|         | 85.0   | 86.0 | 4,668                              | 11,559               | 1,359                              | 4,491                              | 321                                | 48.5                               | 75.6                               | 4.7                                | 12.2                               | 1.3                                | 2.2                                | 0.2                                | 1.5                                | 0.2                                | 27.9                              | 2.26   | 33.5   | 2.5   |
|         | 86.0   | 87.0 | 4,468                              | 10,933               | 1,257                              | 4,176                              | 307                                | 45.4                               | 72.0                               | 4.3                                | 13.1                               | 1.4                                | 4.2                                | 0.6                                | 1.5                                | 0.6                                | 26.7                              | 2.13   | 30     | 4.3   |
|         | 87.0   | 88.0 | 3,753                              | 9,164                | 1,062                              | 3,523                              | 270                                | 41.7                               | 65.5                               | 4.2                                | 10.9                               | 1.2                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 24.1                              | 1.79   | 29.3   | 7.7   |
|         | 88.0   | 89.0 | 4,152                              | 9,925                | 1,138                              | 3,686                              | 269                                | 41.1                               | 64.7                               | 3.9                                | 10.4                               | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.2                                | 24.1                              | 1.93   | 27.2   | 5.9   |
|         | 89.0   | 90.0 | 4,844                              | 11,350               | 1,311                              | 4,327                              | 327                                | 50.1                               | 80.5                               | 5.2                                | 13.1                               | 1.4                                | 2.3                                | 0.2                                | 1.3                                | 0.3                                | 31.8                              | 2.23   | 39.6   | 3.6   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 90.0   | 91.0  | 5,407                              | 12,530               | 1,426                              | 4,642                              | 321                                | 47.6                               | 74.3                               | 4.5                                | 12.2                               | 1.3                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 2.45   | 34.2   | 2.6   |
|         | 91.0   | 92.0  | 4,902                              | 11,645               | 1,347                              | 4,409                              | 317                                | 48.4                               | 76.4                               | 4.6                                | 11.7                               | 1.2                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 25.4                              | 2.28   | 33.4   | 2     |
|         | 92.0   | 93.0  | 6,579                              | 14,679               | 1,649                              | 5,272                              | 383                                | 58.1                               | 92.2                               | 5.7                                | 14.0                               | 1.5                                | 2.4                                | 0.2                                | 1.3                                | 0.2                                | 30.5                              | 2.88   | 41.5   | 2.8   |
|         | 93.0   | 94.0  | 5,313                              | 12,653               | 1,450                              | 4,782                              | 357                                | 54.4                               | 86.2                               | 5.3                                | 13.5                               | 1.4                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 2.47   | 39.9   | 3.2   |
|         | 94.0   | 95.0  | 3,999                              | 9,090                | 1,015                              | 3,348                              | 255                                | 42.7                               | 73.9                               | 4.9                                | 13.3                               | 1.4                                | 2.5                                | 0.3                                | 1.3                                | 0.2                                | 31.8                              | 1.79   | 43.1   | 1.5   |
|         | 95.0   | 96.0  | 5,712                              | 12,468               | 1,383                              | 4,456                              | 312                                | 50.0                               | 81.6                               | 5.1                                | 12.7                               | 1.4                                | 2.6                                | 0.2                                | 1.5                                | 0.2                                | 30.5                              | 2.45   | 40.6   | 3.8   |
|         | 96.0   | 97.0  | 6,040                              | 13,451               | 1,510                              | 4,911                              | 363                                | 58.5                               | 95.7                               | 5.7                                | 14.5                               | 1.4                                | 2.6                                | 0.3                                | 1.3                                | 0.2                                | 29.2                              | 2.65   | 47.3   | 3.3   |
|         | 97.0   | 98.0  | 6,462                              | 15,109               | 1,746                              | 5,914                              | 446                                | 67.4                               | 109.7                              | 6.3                                | 16.1                               | 1.6                                | 2.9                                | 0.3                                | 1.3                                | 0.2                                | 33.0                              | 2.99   | 53.3   | 3.1   |
|         | 98.0   | 99.0  | 5,747                              | 12,898               | 1,444                              | 4,677                              | 329                                | 50.3                               | 82.0                               | 4.8                                | 11.7                               | 1.2                                | 2.3                                | 0.2                                | 1.3                                | 0.2                                | 26.7                              | 2.53   | 37.6   | 3.5   |
|         | 99.0   | 100.0 | 5,336                              | 12,026               | 1,365                              | 4,444                              | 334                                | 53.6                               | 90.3                               | 5.9                                | 16.4                               | 1.6                                | 2.6                                | 0.3                                | 1.4                                | 0.2                                | 35.6                              | 2.37   | 58.4   | 2.7   |
|         | 100.0  | 101.0 | 4,152                              | 9,815                | 1,124                              | 3,837                              | 313                                | 52.6                               | 91.6                               | 6.5                                | 18.0                               | 1.9                                | 3.3                                | 0.3                                | 1.5                                | 0.2                                | 41.9                              | 1.95   | 68.1   | 3.7   |
|         | 101.0  | 102.0 | 5,547                              | 12,653               | 1,474                              | 4,899                              | 359                                | 56.4                               | 93.4                               | 5.7                                | 14.9                               | 1.6                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 31.8                              | 2.51   | 48.2   | 3.5   |
|         | 102.0  | 103.0 | 3,624                              | 8,464                | 971                                | 3,219                              | 245                                | 37.3                               | 61.2                               | 3.7                                | 9.6                                | 1.0                                | 1.9                                | 0.2                                | 1.1                                | 0.2                                | 21.6                              | 1.67   | 29.8   | 2.2   |
|         | 103.0  | 104.0 | 5,712                              | 12,960               | 1,462                              | 4,759                              | 330                                | 51.6                               | 82.9                               | 4.9                                | 11.6                               | 1.2                                | 2.2                                | 0.2                                | 1.4                                | 0.2                                | 24.1                              | 2.54   | 36.3   | 3.3   |
|         | 104.0  | 105.0 | 5,031                              | 11,203               | 1,257                              | 4,059                              | 281                                | 42.7                               | 68.8                               | 4.0                                | 9.9                                | 1.1                                | 2.1                                | 0.3                                | 1.4                                | 0.2                                | 24.1                              | 2.20   | 31     | 3.5   |
|         | 105.0  | 106.0 | 7,424                              | 15,478               | 1,649                              | 5,260                              | 364                                | 56.9                               | 95.8                               | 5.8                                | 14.8                               | 1.6                                | 2.9                                | 0.3                                | 1.3                                | 0.2                                | 34.3                              | 3.04   | 46.9   | 2.3   |
|         | 106.0  | 107.0 | 8,597                              | 18,303               | 2,024                              | 6,415                              | 439                                | 66.9                               | 107.8                              | 6.3                                | 15.8                               | 1.6                                | 2.7                                | 0.2                                | 1.3                                | 0.2                                | 34.3                              | 3.60   | 50.1   | 1.9   |
|         | 107.0  | 108.0 | 10,016                             | 20,576               | 2,229                              | 6,882                              | 477                                | 75.4                               | 123.9                              | 7.7                                | 18.1                               | 1.9                                | 3.2                                | 0.3                                | 1.5                                | 0.2                                | 39.4                              | 4.05   | 62.2   | 2.1   |
|         | 108.0  | 109.0 | 7,787                              | 16,399               | 1,794                              | 5,774                              | 442                                | 73.4                               | 127.9                              | 8.2                                | 21.9                               | 2.2                                | 3.7                                | 0.3                                | 1.8                                | 0.3                                | 48.3                              | 3.25   | 70.2   | 1.1   |
|         | 109.0  | 110.0 | 5,606                              | 12,837               | 1,438                              | 4,806                              | 395                                | 65.3                               | 114.9                              | 7.5                                | 20.9                               | 2.1                                | 3.4                                | 0.3                                | 1.5                                | 0.2                                | 47.0                              | 2.53   | 73.3   | 1.2   |
|         | 110.0  | 111.0 | 4,984                              | 11,731               | 1,383                              | 4,771                              | 387                                | 64.4                               | 108.3                              | 6.7                                | 17.3                               | 1.8                                | 3.1                                | 0.3                                | 1.5                                | 0.2                                | 39.4                              | 2.35   | 63.6   | 1     |
|         | 111.0  | 112.0 | 3,776                              | 8,783                | 994                                | 3,289                              | 242                                | 37.6                               | 62.1                               | 3.9                                | 10.2                               | 1.1                                | 1.9                                | 0.2                                | 1.1                                | 0.2                                | 24.1                              | 1.72   | 32.1   | 1.1   |
|         | 112.0  | 113.0 | 4,633                              | 9,925                | 1,107                              | 3,628                              | 268                                | 44.9                               | 75.5                               | 4.9                                | 13.8                               | 1.6                                | 2.5                                | 0.3                                | 1.6                                | 0.2                                | 34.3                              | 1.97   | 43.6   | 3     |
|         | 113.0  | 114.0 | 8,866                              | 16,829               | 1,764                              | 5,634                              | 477                                | 86.6                               | 161.9                              | 12.1                               | 35.4                               | 3.7                                | 5.7                                | 0.5                                | 2.4                                | 0.3                                | 83.8                              | 3.40   | 109    | 2.6   |
|         | 114.0  | 115.0 | 5,207                              | 9,618                | 962                                | 3,068                              | 256                                | 47.4                               | 90.9                               | 6.8                                | 21.4                               | 2.3                                | 4.4                                | 0.4                                | 1.9                                | 0.3                                | 52.1                              | 1.93   | 56.3   | 1.2   |
|         | 115.0  | 116.0 | 5,981                              | 12,026               | 1,281                              | 4,036                              | 298                                | 48.5                               | 83.5                               | 5.6                                | 14.4                               | 1.5                                | 2.6                                | 0.2                                | 1.1                                | 0.2                                | 33.0                              | 2.38   | 44.1   | 1     |
|         | 116.0  | 117.0 | 8,432                              | 17,075               | 1,843                              | 5,844                              | 419                                | 66.0                               | 111.5                              | 6.9                                | 17.8                               | 1.8                                | 3.2                                | 0.3                                | 1.5                                | 0.2                                | 40.6                              | 3.39   | 56.3   | 1.3   |
|         | 117.0  | 118.0 | 14,601                             | 29,850               | 3,202                              | 10,101                             | 741                                | 118.7                              | 199.4                              | 11.8                               | 28.8                               | 2.6                                | 4.4                                | 0.3                                | 1.6                                | 0.2                                | 58.4                              | 5.89   | 113.5  | 1.2   |
|         | 118.0  | 119.0 | 26,271                             | 48,522               | 4,905                              | 14,522                             | 953                                | 152.8                              | 259.3                              | 16.8                               | 42.4                               | 4.2                                | 6.1                                | 0.4                                | 1.7                                | 0.2                                | 83.8                              | 9.57   | 138.5  | 0.9   |
|         | 119.0  | 120.0 | 9,699                              | 18,979               | 1,963                              | 6,019                              | 415                                | 68.7                               | 114.6                              | 7.6                                | 20.0                               | 1.9                                | 3.4                                | 0.3                                | 1.6                                | 0.2                                | 41.9                              | 3.73   | 59.5   | 2.1   |
|         | 120.0  | 121.0 | 6,310                              | 14,188               | 1,595                              | 5,167                              | 372                                | 57.2                               | 92.6                               | 5.8                                | 14.5                               | 1.5                                | 2.6                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 2.78   | 42     | 0.8   |
|         | 121.0  | 122.0 | 4,996                              | 11,486               | 1,299                              | 4,304                              | 308                                | 48.2                               | 80.3                               | 4.9                                | 13.7                               | 1.4                                | 2.5                                | 0.2                                | 1.5                                | 0.2                                | 30.5                              | 2.26   | 39.6   | 1.4   |
|         | 122.0  | 123.0 | 4,797                              | 10,699               | 1,183                              | 3,814                              | 273                                | 42.4                               | 68.8                               | 4.4                                | 11.5                               | 1.2                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 26.7                              | 2.09   | 34     | 0.8   |
|         | 123.0  | 124.0 | 4,375                              | 9,729                | 1,079                              | 3,511                              | 254                                | 38.9                               | 64.3                               | 4.0                                | 10.8                               | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.2                                | 24.1                              | 1.91   | 33.3   | 1     |
|         | 124.0  | 125.0 | 4,855                              | 10,478               | 1,148                              | 3,779                              | 292                                | 46.4                               | 72.7                               | 4.4                                | 11.9                               | 1.2                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 25.4                              | 2.07   | 34.2   | 1.3   |
|         | 125.0  | 126.0 | 4,480                              | 9,336                | 1,010                              | 3,243                              | 239                                | 38.6                               | 59.5                               | 3.7                                | 10.7                               | 1.1                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 24.1                              | 1.84   | 28.9   | 0.9   |
|         | 126.0  | 127.0 | 4,105                              | 8,390                | 884                                | 2,811                              | 206                                | 33.6                               | 52.6                               | 3.5                                | 9.8                                | 1.0                                | 1.9                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 1.65   | 25.5   | 0.6   |
|         | 127.0  | 128.0 | 3,718                              | 7,714                | 820                                | 2,613                              | 194                                | 31.6                               | 50.1                               | 3.1                                | 9.5                                | 1.0                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.52   | 24.9   | 0.8   |
|         | 128.0  | 129.0 | 4,410                              | 9,520                | 1,032                              | 3,359                              | 256                                | 40.3                               | 62.9                               | 3.8                                | 10.6                               | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 22.9                              | 1.87   | 29.2   | 1.2   |
|         | 129.0  | 130.0 | 5,899                              | 12,898               | 1,456                              | 4,806                              | 385                                | 63.2                               | 97.2                               | 5.8                                | 15.4                               | 1.5                                | 2.6                                | 0.2                                | 1.0                                | 0.2                                | 30.5                              | 2.57   | 45.9   | 1.1   |
|         | 130.0  | 131.0 | 5,348                              | 11,473               | 1,269                              | 4,152                              | 327                                | 52.6                               | 81.6                               | 4.8                                | 12.6                               | 1.3                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 27.9                              | 2.28   | 38.2   | 1.1   |
|         | 131.0  | 132.0 | 5,348                              | 11,608               | 1,311                              | 4,339                              | 365                                | 61.7                               | 99.4                               | 6.0                                | 15.7                               | 1.5                                | 2.3                                | 0.2                                | 1.1                                | 0.1                                | 31.8                              | 2.32   | 53.7   | 1.2   |
|         | 132.0  | 133.0 | 5,500                              | 12,026               | 1,347                              | 4,479                              | 375                                | 63.8                               | 101.9                              | 6.1                                | 16.4                               | 1.6                                | 2.5                                | 0.2                                | 1.1                                | 0.2                                | 33.0                              | 2.40   | 54.7   | 1.4   |
|         | 133.0  | 134.0 | 5,641                              | 12,223               | 1,353                              | 4,502                              | 372                                | 60.1                               | 92.0                               | 5.5                                | 15.3                               | 1.4                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 30.5                              | 2.43   | 46.1   | 1.6   |
|         | 134.0  | 135.0 | 5,336                              | 11,203               | 1,263                              | 4,281                              | 379                                | 63.8                               | 101.0                              | 6.2                                | 17.8                               | 1.9                                | 3.7                                | 0.3                                | 1.7                                | 0.3                                | 41.9                              | 2.27   | 54.6   | 4     |
|         | 135.0  | 136.0 | 4,046                              | 8,390                | 910                                | 3,009                              | 253                                | 42.4                               | 67.1                               | 4.2                                | 13.3                               | 1.5                                | 3.0                                | 0.3                                | 1.7                                | 0.3                                | 35.6                              | 1.68   | 35.6   | 6.5   |



| Hole ID         | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-----------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                 | 136.0  | 137.0 | 8,655                              | 16,522               | 1,716                              | 5,389                              | 414                                | 65.8                               | 102.9                              | 6.3                                | 17.6                               | 1.8                                | 3.0                                | 0.3                                | 1.6                                | 0.2                                | 36.8                              | 3.29   | 56.2   | 3.6   |
|                 | 137.0  | 138.0 | 7,916                              | 14,188               | 1,408                              | 4,339                              | 336                                | 54.3                               | 86.9                               | 5.5                                | 15.4                               | 1.6                                | 2.7                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 2.84   | 47.3   | 2.2   |
|                 | 138.0  | 139.0 | 7,201                              | 14,311               | 1,534                              | 4,957                              | 399                                | 63.2                               | 97.1                               | 5.7                                | 15.5                               | 1.6                                | 2.7                                | 0.2                                | 1.3                                | 0.2                                | 31.8                              | 2.86   | 44.6   | 3     |
|                 | 139.0  | 140.0 | 8,280                              | 16,522               | 1,782                              | 5,809                              | 459                                | 72.4                               | 108.5                              | 6.1                                | 16.6                               | 1.6                                | 2.9                                | 0.2                                | 1.3                                | 0.2                                | 34.3                              | 3.31   | 48.7   | 3     |
|                 | 140.0  | 141.0 | 6,415                              | 12,775               | 1,353                              | 4,397                              | 346                                | 53.7                               | 83.3                               | 4.9                                | 13.5                               | 1.4                                | 2.6                                | 0.3                                | 1.4                                | 0.2                                | 30.5                              | 2.55   | 36.1   | 2.9   |
|                 | 141.0  | 142.0 | 5,958                              | 11,719               | 1,250                              | 4,012                              | 318                                | 50.8                               | 80.0                               | 4.9                                | 14.0                               | 1.5                                | 2.6                                | 0.3                                | 1.6                                | 0.2                                | 33.0                              | 2.34   | 37.1   | 3.3   |
|                 | 142.0  | 143.0 | 6,286                              | 11,891               | 1,232                              | 3,884                              | 306                                | 51.1                               | 79.9                               | 5.0                                | 14.4                               | 1.5                                | 2.5                                | 0.3                                | 1.1                                | 0.2                                | 31.8                              | 2.38   | 38.1   | 2.5   |
|                 | 143.0  | 144.0 | 5,864                              | 10,896               | 1,119                              | 3,511                              | 278                                | 45.6                               | 74.6                               | 4.8                                | 14.1                               | 1.5                                | 2.7                                | 0.3                                | 1.4                                | 0.2                                | 31.8                              | 2.18   | 37.4   | 2.4   |
|                 | 144.0  | 145.0 | 5,465                              | 10,663               | 1,124                              | 3,558                              | 267                                | 43.0                               | 66.0                               | 4.0                                | 11.8                               | 1.2                                | 2.6                                | 0.3                                | 1.5                                | 0.2                                | 27.9                              | 2.12   | 29.1   | 3.3   |
|                 | 145.0  | 146.0 | 4,973                              | 9,778                | 1,026                              | 3,254                              | 253                                | 39.8                               | 62.8                               | 3.9                                | 11.1                               | 1.2                                | 2.2                                | 0.2                                | 1.5                                | 0.2                                | 25.4                              | 1.94   | 28.3   | 3.6   |
|                 | 146.0  | 147.0 | 4,586                              | 8,881                | 925                                | 2,928                              | 223                                | 36.5                               | 55.2                               | 3.4                                | 10.0                               | 1.1                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 24.1                              | 1.77   | 26.4   | 3.8   |
|                 | 147.0  | 148.0 | 1,325                              | 2,616                | 277                                | 899                                | 78                                 | 14.2                               | 25.0                               | 2.1                                | 9.1                                | 1.3                                | 3.1                                | 0.4                                | 2.2                                | 0.3                                | 35.6                              | 0.53   | 14.2   | 2.4   |
|                 | 148.0  | 149.0 | 3,460                              | 6,609                | 695                                | 2,199                              | 176                                | 29.8                               | 49.1                               | 3.3                                | 10.6                               | 1.2                                | 2.3                                | 0.3                                | 1.5                                | 0.2                                | 29.2                              | 1.33   | 26.8   | 2     |
|                 | 149.0  | 150.0 | 7,107                              | 13,820               | 1,450                              | 4,607                              | 365                                | 63.0                               | 104.7                              | 7.0                                | 20.2                               | 2.1                                | 3.3                                | 0.3                                | 1.6                                | 0.2                                | 41.9                              | 2.76   | 68.5   | 1.3   |
| <b>KGKRC040</b> | 0.0    | 1.0   | 7,987                              | 13,328               | 1,244                              | 3,639                              | 255                                | 42.8                               | 69.9                               | 4.7                                | 13.8                               | 1.4                                | 2.5                                | 0.3                                | 1.3                                | 0.2                                | 34.3                              | 2.66   | 34.1   | 2.1   |
|                 | 1.0    | 2.0   | 6,884                              | 11,387               | 1,073                              | 3,161                              | 221                                | 36.4                               | 59.0                               | 3.8                                | 10.4                               | 1.1                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 2.29   | 26.3   | 2.8   |
|                 | 2.0    | 3.0   | 10,297                             | 16,153               | 1,480                              | 4,199                              | 288                                | 47.5                               | 76.0                               | 4.7                                | 12.4                               | 1.2                                | 2.1                                | 0.2                                | 0.7                                | 0.1                                | 25.4                              | 3.26   | 32.7   | 2.1   |
|                 | 3.0    | 4.0   | 7,952                              | 13,021               | 1,214                              | 3,569                              | 271                                | 45.9                               | 76.4                               | 5.3                                | 15.6                               | 1.5                                | 2.6                                | 0.3                                | 1.3                                | 0.2                                | 35.6                              | 2.62   | 49.2   | 2.6   |
|                 | 4.0    | 5.0   | 5,113                              | 9,532                | 878                                | 2,613                              | 178                                | 28.1                               | 46.7                               | 3.2                                | 8.0                                | 0.8                                | 1.5                                | 0.1                                | 0.6                                | 0.1                                | 17.8                              | 1.84   | 20.4   | 1.7   |
|                 | 5.0    | 6.0   | 5,665                              | 10,540               | 941                                | 2,788                              | 188                                | 29.9                               | 50.9                               | 3.2                                | 8.7                                | 1.0                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 2.02   | 23.9   | 1.5   |
|                 | 6.0    | 7.0   | 5,383                              | 9,999                | 921                                | 2,718                              | 190                                | 29.5                               | 50.3                               | 3.3                                | 8.7                                | 1.0                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.93   | 24     | 1.9   |
|                 | 7.0    | 8.0   | 18,354                             | 30,956               | 2,900                              | 8,316                              | 557                                | 93.0                               | 163.7                              | 11.6                               | 31.8                               | 3.5                                | 5.4                                | 0.5                                | 2.1                                | 0.3                                | 71.1                              | 6.15   | 98.2   | 1.3   |
|                 | 8.0    | 9.0   | 7,600                              | 14,065               | 1,263                              | 3,639                              | 253                                | 41.8                               | 71.9                               | 4.6                                | 12.4                               | 1.3                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 27.9                              | 2.70   | 32.8   | 1.5   |
|                 | 9.0    | 10.0  | 1,894                              | 3,722                | 329                                | 967                                | 64                                 | 10.7                               | 18.0                               | 1.1                                | 3.4                                | 0.4                                | 0.7                                | -0.1                               | 0.3                                | -0.1                               | 6.4                               | 0.70   | 7.9    | 0.8   |
|                 | 10.0   | 11.0  | 4,656                              | 8,783                | 800                                | 2,356                              | 158                                | 25.6                               | 43.7                               | 3.0                                | 7.6                                | 0.8                                | 1.3                                | 0.2                                | 0.8                                | 0.1                                | 17.8                              | 1.69   | 22.6   | 2.1   |
|                 | 11.0   | 12.0  | 5,008                              | 9,213                | 841                                | 2,473                              | 167                                | 27.7                               | 48.2                               | 3.4                                | 8.8                                | 0.9                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 21.6                              | 1.78   | 20.2   | 2.8   |
|                 | 12.0   | 13.0  | 7,529                              | 14,004               | 1,293                              | 3,861                              | 286                                | 48.9                               | 83.7                               | 6.1                                | 16.8                               | 1.9                                | 3.0                                | 0.3                                | 1.4                                | 0.1                                | 40.6                              | 2.72   | 44.1   | 1.9   |
|                 | 13.0   | 14.0  | 5,008                              | 9,410                | 864                                | 2,613                              | 197                                | 33.9                               | 59.1                               | 4.3                                | 14.8                               | 1.8                                | 3.5                                | 0.4                                | 1.8                                | 0.3                                | 44.5                              | 1.83   | 21.5   | 1.6   |
|                 | 14.0   | 15.0  | 4,539                              | 8,611                | 801                                | 2,473                              | 199                                | 35.6                               | 64.3                               | 4.8                                | 17.7                               | 2.4                                | 4.8                                | 0.6                                | 3.4                                | 0.4                                | 61.0                              | 1.68   | 20.9   | 2.2   |
|                 | 15.0   | 16.0  | 9,171                              | 16,891               | 1,553                              | 4,654                              | 346                                | 58.8                               | 101.2                              | 7.1                                | 21.9                               | 2.6                                | 4.6                                | 0.5                                | 2.9                                | 0.4                                | 57.2                              | 3.29   | 39.4   | 1.5   |
|                 | 16.0   | 17.0  | 3,342                              | 6,597                | 623                                | 1,954                              | 168                                | 30.6                               | 58.6                               | 4.8                                | 18.1                               | 2.4                                | 4.4                                | 0.5                                | 3.1                                | 0.4                                | 57.2                              | 1.29   | 22.5   | 2.6   |
|                 | 17.0   | 18.0  | 2,897                              | 5,761                | 549                                | 1,744                              | 151                                | 27.9                               | 50.6                               | 4.1                                | 17.2                               | 2.2                                | 5.0                                | 0.6                                | 3.4                                | 0.5                                | 61.0                              | 1.13   | 18.1   | 2.3   |
|                 | 18.0   | 19.0  | 4,375                              | 8,709                | 809                                | 2,519                              | 197                                | 34.5                               | 61.7                               | 4.6                                | 15.2                               | 2.1                                | 4.2                                | 0.6                                | 2.7                                | 0.4                                | 52.1                              | 1.68   | 23     | 2.2   |
|                 | 19.0   | 20.0  | 5,993                              | 10,822               | 1,066                              | 3,173                              | 231                                | 41.2                               | 75.5                               | 5.8                                | 18.4                               | 2.6                                | 5.0                                | 0.6                                | 3.2                                | 0.5                                | 61.0                              | 2.15   | 32     | 2.2   |
|                 | 20.0   | 21.0  | 7,541                              | 13,820               | 1,353                              | 4,024                              | 279                                | 49.2                               | 90.0                               | 6.7                                | 21.1                               | 2.8                                | 5.2                                | 0.6                                | 3.5                                | 0.5                                | 67.3                              | 2.73   | 34.4   | 2     |
|                 | 21.0   | 22.0  | 4,410                              | 8,071                | 782                                | 2,484                              | 181                                | 31.7                               | 58.2                               | 4.1                                | 12.4                               | 1.5                                | 2.6                                | 0.3                                | 1.5                                | 0.2                                | 34.3                              | 1.61   | 23.3   | 2.1   |
|                 | 22.0   | 23.0  | 4,961                              | 9,483                | 965                                | 2,986                              | 208                                | 35.1                               | 62.1                               | 4.1                                | 11.7                               | 1.3                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 27.9                              | 1.87   | 28.3   | 1.4   |
|                 | 23.0   | 24.0  | 5,325                              | 10,073               | 996                                | 2,986                              | 198                                | 34.2                               | 61.6                               | 4.1                                | 11.9                               | 1.3                                | 2.4                                | 0.3                                | 1.0                                | 0.2                                | 30.5                              | 1.97   | 24.6   | 2.7   |
|                 | 24.0   | 25.0  | 4,679                              | 8,439                | 806                                | 2,543                              | 186                                | 32.9                               | 62.9                               | 4.9                                | 16.6                               | 2.2                                | 4.2                                | 0.5                                | 2.7                                | 0.4                                | 54.6                              | 1.68   | 21.2   | 2.8   |
|                 | 25.0   | 26.0  | 6,005                              | 10,773               | 1,038                              | 2,986                              | 191                                | 31.5                               | 55.6                               | 4.0                                | 11.7                               | 1.4                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 2.11   | 21.5   | 1.5   |
|                 | 26.0   | 27.0  | 5,794                              | 10,503               | 1,003                              | 2,974                              | 187                                | 30.0                               | 53.0                               | 3.5                                | 10.2                               | 1.3                                | 1.8                                | 0.2                                | 1.3                                | 0.2                                | 25.4                              | 2.06   | 21.5   | 1.4   |
|                 | 27.0   | 28.0  | 12,432                             | 19,777               | 1,794                              | 5,225                              | 295                                | 48.2                               | 83.7                               | 5.7                                | 14.8                               | 1.7                                | 2.5                                | 0.2                                | 1.1                                | 0.1                                | 34.3                              | 3.97   | 32.7   | 0.5   |
|                 | 28.0   | 29.0  | 13,604                             | 20,760               | 1,885                              | 5,179                              | 286                                | 45.7                               | 78.0                               | 5.6                                | 14.9                               | 1.6                                | 2.6                                | 0.2                                | 1.3                                | 0.2                                | 34.3                              | 4.19   | 37.9   | 0.6   |
|                 | 29.0   | 30.0  | 14,660                             | 22,603               | 2,012                              | 5,587                              | 312                                | 48.5                               | 84.6                               | 5.7                                | 15.6                               | 1.6                                | 2.6                                | 0.2                                | 1.0                                | 0.1                                | 34.3                              | 4.54   | 40.4   | 0.6   |
|                 | 30.0   | 31.0  | 15,129                             | 23,401               | 2,120                              | 5,960                              | 343                                | 54.0                               | 92.2                               | 6.1                                | 17.7                               | 1.8                                | 3.5                                | 0.3                                | 1.5                                | 0.2                                | 41.9                              | 4.72   | 46.3   | 0.9   |
|                 | 31.0   | 32.0  | 17,123                             | 26,042               | 2,362                              | 6,380                              | 355                                | 56.2                               | 95.0                               | 6.4                                | 16.5                               | 1.7                                | 2.7                                | 0.2                                | 1.0                                | 0.1                                | 34.3                              | 5.25   | 45.3   | 0.8   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 32.0   | 33.0 | 8,550                              | 13,635               | 1,269                              | 3,359                              | 197                                | 30.9                               | 53.3                               | 3.7                                | 8.8                                | 1.0                                | 1.6                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 2.71   | 25.5   | 1.6   |
|         | 33.0   | 34.0 | 6,228                              | 10,245               | 999                                | 2,694                              | 169                                | 27.4                               | 47.6                               | 3.3                                | 8.7                                | 1.0                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 2.04   | 22.4   | 2.7   |
|         | 34.0   | 35.0 | 7,154                              | 11,596               | 1,092                              | 2,916                              | 172                                | 27.2                               | 47.3                               | 3.3                                | 9.6                                | 1.0                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.30   | 21.4   | 1.5   |
|         | 35.0   | 36.0 | 7,600                              | 13,021               | 1,281                              | 3,523                              | 212                                | 34.0                               | 56.4                               | 3.9                                | 10.7                               | 1.2                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.58   | 25.9   | 1.5   |
|         | 36.0   | 37.0 | 6,439                              | 11,449               | 1,133                              | 3,173                              | 198                                | 33.9                               | 58.1                               | 4.3                                | 12.1                               | 1.4                                | 2.6                                | 0.2                                | 1.5                                | 0.2                                | 33.0                              | 2.25   | 24.6   | 3     |
|         | 37.0   | 38.0 | 3,647                              | 6,670                | 661                                | 2,082                              | 154                                | 26.6                               | 48.8                               | 3.9                                | 12.4                               | 1.6                                | 3.5                                | 0.3                                | 2.1                                | 0.3                                | 40.6                              | 1.34   | 20     | 3.4   |
|         | 38.0   | 39.0 | 6,439                              | 11,068               | 1,112                              | 3,138                              | 214                                | 36.5                               | 65.6                               | 5.1                                | 15.8                               | 1.9                                | 3.7                                | 0.4                                | 2.4                                | 0.3                                | 47.0                              | 2.21   | 24.7   | 3     |
|         | 39.0   | 40.0 | 5,946                              | 11,117               | 1,137                              | 3,254                              | 215                                | 33.8                               | 59.6                               | 4.5                                | 13.5                               | 1.5                                | 2.9                                | 0.3                                | 1.7                                | 0.2                                | 36.8                              | 2.18   | 25.6   | 4     |
|         | 40.0   | 41.0 | 5,184                              | 9,975                | 1,054                              | 3,196                              | 269                                | 53.7                               | 108.5                              | 10.5                               | 41.1                               | 5.7                                | 12.0                               | 1.3                                | 7.4                                | 0.8                                | 146.0                             | 2.01   | 26.4   | 5.5   |
|         | 41.0   | 42.0 | 2,152                              | 4,287                | 451                                | 1,522                              | 154                                | 32.9                               | 75.8                               | 7.9                                | 32.8                               | 4.7                                | 10.4                               | 1.1                                | 6.3                                | 0.6                                | 120.6                             | 0.89   | 44.1   | 5.7   |
|         | 42.0   | 43.0 | 2,357                              | 4,471                | 471                                | 1,569                              | 145                                | 30.1                               | 67.7                               | 7.0                                | 28.6                               | 4.3                                | 10.2                               | 1.0                                | 6.6                                | 0.7                                | 114.3                             | 0.93   | 39.9   | 6.8   |
|         | 43.0   | 44.0 | 12,959                             | 24,077               | 2,573                              | 7,290                              | 472                                | 77.1                               | 123.9                              | 9.3                                | 26.4                               | 3.2                                | 6.0                                | 0.6                                | 3.4                                | 0.4                                | 73.7                              | 4.77   | 47.1   | 4.9   |
|         | 44.0   | 45.0 | 1,302                              | 2,469                | 243                                | 771                                | 53                                 | 9.4                                | 17.4                               | 1.6                                | 6.5                                | 1.1                                | 2.4                                | 0.4                                | 2.6                                | 0.3                                | 27.9                              | 0.49   | 16.8   | 4.4   |
|         | 45.0   | 46.0 | 4,926                              | 9,029                | 951                                | 2,788                              | 213                                | 36.9                               | 68.9                               | 5.5                                | 17.9                               | 2.3                                | 4.8                                | 0.5                                | 3.5                                | 0.5                                | 59.7                              | 1.81   | 23.9   | 3     |
|         | 46.0   | 47.0 | 5,219                              | 9,631                | 976                                | 2,939                              | 221                                | 38.8                               | 70.1                               | 5.7                                | 18.5                               | 2.3                                | 4.8                                | 0.5                                | 3.1                                | 0.4                                | 59.7                              | 1.92   | 25.8   | 2.9   |
|         | 47.0   | 48.0 | 5,231                              | 9,594                | 980                                | 2,858                              | 198                                | 34.5                               | 61.7                               | 4.9                                | 14.8                               | 1.7                                | 3.5                                | 0.3                                | 2.2                                | 0.3                                | 44.5                              | 1.90   | 26     | 2.9   |
|         | 48.0   | 49.0 | 3,436                              | 6,400                | 639                                | 2,065                              | 183                                | 34.7                               | 69.2                               | 6.2                                | 22.6                               | 3.3                                | 7.1                                | 0.8                                | 4.8                                | 0.6                                | 90.2                              | 1.30   | 30.4   | 5.2   |
|         | 49.0   | 50.0 | 4,797                              | 8,894                | 895                                | 2,671                              | 201                                | 36.0                               | 65.7                               | 5.3                                | 17.5                               | 2.1                                | 4.2                                | 0.5                                | 2.9                                | 0.4                                | 52.1                              | 1.76   | 29     | 7.2   |
|         | 50.0   | 51.0 | 6,591                              | 11,842               | 1,214                              | 3,628                              | 281                                | 50.5                               | 93.1                               | 7.3                                | 23.2                               | 2.6                                | 5.2                                | 0.5                                | 3.1                                | 0.4                                | 62.2                              | 2.38   | 26.2   | 2.6   |
|         | 51.0   | 52.0 | 8,503                              | 14,925               | 1,480                              | 4,491                              | 353                                | 63.8                               | 113.2                              | 8.8                                | 26.4                               | 3.2                                | 5.5                                | 0.6                                | 4.1                                | 0.5                                | 74.9                              | 3.01   | 30.6   | 3.2   |
|         | 52.0   | 53.0 | 3,800                              | 6,633                | 650                                | 1,995                              | 177                                | 35.1                               | 68.5                               | 6.3                                | 22.4                               | 3.3                                | 7.0                                | 0.9                                | 5.2                                | 0.8                                | 88.9                              | 1.35   | 29.8   | 4.1   |
|         | 53.0   | 54.0 | 3,730                              | 6,498                | 632                                | 1,930                              | 166                                | 32.5                               | 60.2                               | 5.4                                | 17.5                               | 2.5                                | 4.5                                | 0.5                                | 3.5                                | 0.6                                | 63.5                              | 1.31   | 25.6   | 3.8   |
|         | 54.0   | 55.0 | 4,762                              | 8,083                | 781                                | 2,344                              | 191                                | 35.6                               | 66.3                               | 5.3                                | 16.9                               | 2.1                                | 4.4                                | 0.5                                | 3.0                                | 0.4                                | 55.9                              | 1.64   | 25.4   | 3.7   |
|         | 55.0   | 56.0 | 5,125                              | 8,685                | 822                                | 2,461                              | 184                                | 33.7                               | 59.9                               | 4.7                                | 15.6                               | 1.8                                | 3.1                                | 0.4                                | 2.1                                | 0.3                                | 43.2                              | 1.74   | 19.7   | 2.1   |
|         | 56.0   | 57.0 | 5,606                              | 9,397                | 894                                | 2,659                              | 193                                | 34.5                               | 62.7                               | 5.0                                | 14.9                               | 1.7                                | 3.0                                | 0.4                                | 1.8                                | 0.3                                | 41.9                              | 1.89   | 22.4   | 2.8   |
|         | 57.0   | 58.0 | 5,442                              | 9,250                | 889                                | 2,671                              | 193                                | 33.1                               | 58.6                               | 4.5                                | 13.3                               | 1.6                                | 2.7                                | 0.3                                | 1.5                                | 0.2                                | 36.8                              | 1.86   | 21.5   | 3.9   |
|         | 58.0   | 59.0 | 3,823                              | 7,248                | 714                                | 2,245                              | 193                                | 37.5                               | 69.9                               | 5.8                                | 20.1                               | 2.9                                | 5.8                                | 0.7                                | 3.5                                | 0.5                                | 71.1                              | 1.44   | 24.4   | 4     |
|         | 59.0   | 60.0 | 4,785                              | 8,697                | 840                                | 2,531                              | 194                                | 35.4                               | 63.7                               | 5.1                                | 16.1                               | 2.1                                | 4.1                                | 0.5                                | 2.6                                | 0.4                                | 49.5                              | 1.72   | 18.6   | 2.6   |
|         | 60.0   | 61.0 | 2,756                              | 5,270                | 521                                | 1,633                              | 141                                | 27.2                               | 52.1                               | 4.4                                | 14.2                               | 2.0                                | 4.2                                | 0.5                                | 2.4                                | 0.3                                | 48.3                              | 1.05   | 12.2   | 0.5   |
|         | 61.0   | 62.0 | 5,336                              | 9,741                | 924                                | 2,741                              | 205                                | 36.9                               | 67.1                               | 5.0                                | 16.1                               | 1.9                                | 3.9                                | 0.4                                | 2.1                                | 0.3                                | 44.5                              | 1.91   | 22.6   | 2.2   |
|         | 62.0   | 63.0 | 5,876                              | 11,412               | 1,107                              | 3,348                              | 230                                | 37.3                               | 61.4                               | 4.2                                | 10.9                               | 1.2                                | 2.3                                | 0.2                                | 1.0                                | 0.2                                | 25.4                              | 2.21   | 29.5   | 1.1   |
|         | 63.0   | 64.0 | 8,210                              | 14,864               | 1,414                              | 4,176                              | 293                                | 51.2                               | 86.9                               | 6.0                                | 16.1                               | 1.7                                | 2.7                                | 0.2                                | 1.1                                | 0.2                                | 34.3                              | 2.92   | 41.8   | 2     |
|         | 64.0   | 65.0 | 5,899                              | 10,417               | 981                                | 2,869                              | 206                                | 37.6                               | 65.5                               | 4.9                                | 14.9                               | 1.9                                | 3.5                                | 0.4                                | 2.1                                | 0.3                                | 44.5                              | 2.05   | 24.3   | 2.2   |
|         | 65.0   | 66.0 | 6,052                              | 10,626               | 986                                | 2,834                              | 196                                | 34.0                               | 60.2                               | 4.5                                | 12.5                               | 1.4                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 30.5                              | 2.08   | 25.9   | 3.3   |
|         | 66.0   | 67.0 | 5,196                              | 9,139                | 845                                | 2,414                              | 173                                | 30.7                               | 54.1                               | 4.3                                | 13.0                               | 1.6                                | 2.9                                | 0.3                                | 1.7                                | 0.2                                | 36.8                              | 1.79   | 21.1   | 3.1   |
|         | 67.0   | 68.0 | 7,119                              | 12,591               | 1,160                              | 3,336                              | 231                                | 40.3                               | 69.3                               | 5.0                                | 14.5                               | 1.6                                | 2.6                                | 0.3                                | 1.5                                | 0.3                                | 34.3                              | 2.46   | 33.1   | 2.5   |
|         | 68.0   | 69.0 | 6,673                              | 11,645               | 1,080                              | 3,161                              | 221                                | 37.2                               | 62.7                               | 4.5                                | 13.1                               | 1.6                                | 2.9                                | 0.2                                | 1.3                                | 0.1                                | 33.0                              | 2.29   | 27.9   | 4.1   |
|         | 69.0   | 70.0 | 10,778                             | 17,505               | 1,553                              | 4,362                              | 282                                | 47.5                               | 80.9                               | 5.8                                | 15.8                               | 1.7                                | 3.0                                | 0.3                                | 1.3                                | 0.2                                | 38.1                              | 3.47   | 29.6   | 2.2   |
|         | 70.0   | 71.0 | 5,829                              | 10,122               | 923                                | 2,659                              | 184                                | 33.6                               | 61.4                               | 5.1                                | 15.6                               | 2.1                                | 3.9                                | 0.4                                | 1.8                                | 0.2                                | 47.0                              | 1.99   | 20     | 5     |
|         | 71.0   | 72.0 | 6,497                              | 11,584               | 1,073                              | 3,091                              | 211                                | 36.6                               | 62.9                               | 4.7                                | 14.0                               | 1.7                                | 3.1                                | 0.3                                | 1.5                                | 0.2                                | 36.8                              | 2.26   | 22.8   | 4.3   |
|         | 72.0   | 73.0 | 7,049                              | 12,284               | 1,139                              | 3,289                              | 226                                | 38.2                               | 66.5                               | 4.7                                | 13.3                               | 1.6                                | 3.0                                | 0.3                                | 1.4                                | 0.2                                | 34.3                              | 2.42   | 29.4   | 2     |
|         | 73.0   | 74.0 | 5,207                              | 9,422                | 892                                | 2,636                              | 193                                | 35.3                               | 64.9                               | 5.2                                | 17.0                               | 2.2                                | 4.4                                | 0.4                                | 1.9                                | 0.3                                | 50.8                              | 1.85   | 22.8   | 3.4   |
|         | 74.0   | 75.0 | 5,700                              | 10,073               | 942                                | 2,764                              | 197                                | 34.0                               | 61.2                               | 4.8                                | 14.7                               | 2.0                                | 3.4                                | 0.4                                | 1.8                                | 0.2                                | 43.2                              | 1.98   | 22.8   | 2.9   |
|         | 75.0   | 76.0 | 5,008                              | 8,513                | 776                                | 2,263                              | 169                                | 31.3                               | 59.9                               | 5.1                                | 17.9                               | 2.4                                | 4.8                                | 0.5                                | 2.2                                | 0.3                                | 57.2                              | 1.69   | 18.6   | 2.6   |
|         | 76.0   | 77.0 | 5,993                              | 9,987                | 904                                | 2,578                              | 183                                | 33.4                               | 64.4                               | 5.1                                | 17.0                               | 2.3                                | 4.2                                | 0.4                                | 2.2                                | 0.3                                | 50.8                              | 1.98   | 21.2   | 2.9   |
|         | 77.0   | 78.0 | 3,636                              | 5,958                | 524                                | 1,493                              | 108                                | 20.6                               | 40.6                               | 3.8                                | 13.5                               | 1.9                                | 4.0                                | 0.4                                | 2.3                                | 0.3                                | 47.0                              | 1.19   | 14.7   | 4.3   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 78.0   | 79.0  | 5,067                              | 7,899                | 658                                | 1,750                              | 101                                | 16.4                               | 26.9                               | 2.0                                | 5.5                                | 0.7                                | 1.3                                | 0.1                                | 0.6                                | 0.1                                | 15.2                              | 1.55   | 11.8   | 1.9   |
|         | 79.0   | 80.0  | 5,864                              | 10,073               | 900                                | 2,543                              | 166                                | 27.1                               | 45.1                               | 3.2                                | 8.2                                | 0.9                                | 1.5                                | 0.2                                | 0.6                                | 0.1                                | 17.8                              | 1.97   | 22.2   | 0.4   |
|         | 80.0   | 81.0  | 4,879                              | 7,714                | 654                                | 1,767                              | 105                                | 18.1                               | 29.9                               | 2.3                                | 6.2                                | 0.8                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 16.5                              | 1.52   | 14.2   | 1.9   |
|         | 81.0   | 82.0  | 4,902                              | 7,813                | 662                                | 1,779                              | 106                                | 17.6                               | 28.5                               | 2.0                                | 6.0                                | 0.7                                | 1.3                                | 0.1                                | 0.7                                | 0.1                                | 16.5                              | 1.53   | 13.4   | 1.4   |
|         | 82.0   | 83.0  | 6,181                              | 10,036               | 877                                | 2,461                              | 164                                | 27.8                               | 50.1                               | 3.8                                | 11.0                               | 1.4                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 30.5                              | 1.98   | 22.8   | 0.7   |
|         | 83.0   | 84.0  | 9,066                              | 16,215               | 1,528                              | 4,456                              | 312                                | 51.3                               | 84.5                               | 5.3                                | 13.3                               | 1.4                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 3.18   | 50.8   | 1.2   |
|         | 84.0   | 85.0  | 8,069                              | 14,127               | 1,305                              | 3,814                              | 261                                | 42.4                               | 69.0                               | 4.4                                | 11.3                               | 1.2                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 2.77   | 41.4   | 0.7   |
|         | 85.0   | 86.0  | 2,510                              | 3,833                | 325                                | 891                                | 59                                 | 10.3                               | 18.9                               | 1.6                                | 5.2                                | 0.7                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 15.2                              | 0.77   | 10.8   | 1.2   |
|         | 86.0   | 87.0  | 7,611                              | 11,977               | 1,020                              | 2,788                              | 175                                | 29.3                               | 51.4                               | 4.1                                | 12.5                               | 1.5                                | 2.3                                | 0.2                                | 1.0                                | 0.2                                | 33.0                              | 2.37   | 28.4   | 1     |
|         | 87.0   | 88.0  | 11,470                             | 17,750               | 1,498                              | 4,024                              | 241                                | 39.3                               | 64.7                               | 4.5                                | 12.2                               | 1.4                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 3.51   | 29.3   | 0.5   |
|         | 88.0   | 89.0  | 3,859                              | 5,945                | 501                                | 1,365                              | 94                                 | 16.0                               | 28.2                               | 3.0                                | 10.2                               | 1.3                                | 2.4                                | 0.5                                | 1.6                                | 0.5                                | 30.5                              | 1.19   | 16.4   | 0.7   |
|         | 89.0   | 90.0  | 1,554                              | 2,451                | 213                                | 586                                | 43                                 | 8.2                                | 15.8                               | 2.0                                | 8.3                                | 1.0                                | 1.8                                | 0.2                                | 1.4                                | 0.2                                | 26.7                              | 0.49   | 9.8    | 0.8   |
|         | 90.0   | 91.0  | 3,753                              | 5,528                | 462                                | 1,260                              | 82                                 | 14.2                               | 24.9                               | 2.4                                | 8.4                                | 1.0                                | 1.9                                | 0.2                                | 1.3                                | 0.2                                | 26.7                              | 1.12   | 12.2   | 0.3   |
|         | 91.0   | 92.0  | 2,322                              | 3,464                | 290                                | 801                                | 60                                 | 11.8                               | 22.7                               | 2.3                                | 8.7                                | 1.2                                | 2.2                                | 0.2                                | 1.5                                | 0.2                                | 30.5                              | 0.70   | 13.5   | 0.5   |
|         | 92.0   | 93.0  | 7,963                              | 11,142               | 886                                | 2,274                              | 133                                | 21.8                               | 34.8                               | 2.9                                | 8.7                                | 1.0                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 25.4                              | 2.25   | 19.2   | 0.9   |
|         | 93.0   | 94.0  | 15,246                             | 21,251               | 1,691                              | 4,304                              | 238                                | 37.6                               | 57.9                               | 4.3                                | 10.6                               | 1.0                                | 1.6                                | 0.1                                | 0.8                                | 0.1                                | 21.6                              | 4.29   | 33.6   | 0.5   |
|         | 94.0   | 95.0  | 12,842                             | 18,180               | 1,456                              | 3,732                              | 212                                | 33.9                               | 52.0                               | 3.9                                | 9.8                                | 0.9                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 17.8                              | 3.65   | 26.7   | 0.4   |
|         | 95.0   | 96.0  | 12,725                             | 18,917               | 1,534                              | 3,989                              | 229                                | 36.6                               | 56.4                               | 4.1                                | 10.3                               | 1.0                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 3.75   | 27     | 0.7   |
|         | 96.0   | 97.0  | 10,285                             | 14,434               | 1,168                              | 3,091                              | 199                                | 35.0                               | 60.6                               | 5.6                                | 15.6                               | 1.7                                | 3.0                                | 0.3                                | 1.9                                | 0.2                                | 43.2                              | 2.93   | 57     | 1.1   |
|         | 97.0   | 98.0  | 10,743                             | 15,355               | 1,250                              | 3,243                              | 207                                | 35.2                               | 58.1                               | 5.1                                | 14.0                               | 1.4                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 31.8                              | 3.09   | 46.6   | 0.8   |
|         | 98.0   | 99.0  | 10,508                             | 15,355               | 1,250                              | 3,254                              | 191                                | 31.6                               | 50.8                               | 4.3                                | 11.5                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 27.9                              | 3.07   | 28.8   | 0.4   |
|         | 99.0   | 100.0 | 18,237                             | 26,533               | 2,175                              | 5,669                              | 335                                | 54.9                               | 87.9                               | 6.9                                | 17.6                               | 1.7                                | 2.9                                | 0.3                                | 1.3                                | 0.2                                | 38.1                              | 5.32   | 53.3   | 0.4   |
|         | 100.0  | 101.0 | 18,999                             | 27,025               | 2,199                              | 5,587                              | 322                                | 51.9                               | 79.2                               | 6.0                                | 15.2                               | 1.5                                | 2.3                                | 0.2                                | 1.0                                | 0.2                                | 33.0                              | 5.43   | 41.3   | 0.5   |
|         | 101.0  | 102.0 | 20,641                             | 28,622               | 2,465                              | 6,065                              | 348                                | 54.8                               | 91.2                               | 5.9                                | 15.8                               | 1.7                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 34.3                              | 5.83   | 47.2   | 0.5   |
|         | 102.0  | 103.0 | 23,397                             | 32,921               | 2,646                              | 6,730                              | 390                                | 63.0                               | 96.2                               | 7.2                                | 17.8                               | 1.6                                | 2.4                                | 0.2                                | 0.8                                | 0.1                                | 33.0                              | 6.63   | 55.6   | 0.4   |
|         | 103.0  | 104.0 | 5,524                              | 8,476                | 715                                | 1,930                              | 127                                | 21.3                               | 33.9                               | 2.8                                | 7.8                                | 0.8                                | 1.5                                | 0.1                                | 0.8                                | 0.1                                | 19.1                              | 1.69   | 21.4   | 0.3   |
|         | 104.0  | 105.0 | 5,747                              | 8,415                | 694                                | 1,820                              | 112                                | 19.5                               | 31.7                               | 2.5                                | 7.1                                | 0.8                                | 1.3                                | 0.1                                | 0.6                                | 0.1                                | 16.5                              | 1.69   | 19.8   | 0.6   |
|         | 105.0  | 106.0 | 2,029                              | 3,108                | 256                                | 694                                | 49                                 | 8.9                                | 16.1                               | 1.7                                | 5.3                                | 0.6                                | 1.1                                | 0.1                                | 0.7                                | 0.1                                | 16.5                              | 0.62   | 12     | 0.8   |
|         | 106.0  | 107.0 | 1,413                              | 2,187                | 185                                | 523                                | 42                                 | 8.3                                | 15.8                               | 1.8                                | 6.4                                | 0.8                                | 1.6                                | 0.2                                | 1.3                                | 0.2                                | 22.9                              | 0.44   | 16.6   | 0.7   |
|         | 107.0  | 108.0 | 1,613                              | 2,494                | 212                                | 582                                | 42                                 | 7.8                                | 14.1                               | 1.4                                | 5.3                                | 0.7                                | 1.3                                | 0.2                                | 1.0                                | 0.1                                | 17.8                              | 0.50   | 8.6    | 0.6   |
|         | 108.0  | 109.0 | 1,871                              | 2,813                | 233                                | 623                                | 41                                 | 7.4                                | 13.4                               | 1.3                                | 4.8                                | 0.7                                | 1.4                                | 0.2                                | 1.1                                | 0.1                                | 19.1                              | 0.56   | 6.5    | 0.7   |
|         | 109.0  | 110.0 | 1,671                              | 2,457                | 200                                | 533                                | 36                                 | 6.7                                | 12.3                               | 1.4                                | 5.2                                | 0.7                                | 1.7                                | 0.2                                | 1.1                                | 0.2                                | 21.6                              | 0.49   | 5.3    | 1.1   |
|         | 110.0  | 111.0 | 2,146                              | 3,120                | 251                                | 653                                | 40                                 | 7.4                                | 12.9                               | 1.3                                | 4.5                                | 0.6                                | 1.0                                | 0.1                                | 0.9                                | 0.1                                | 16.5                              | 0.63   | 7      | 1     |
|         | 111.0  | 112.0 | 3,917                              | 5,626                | 445                                | 1,155                              | 73                                 | 12.9                               | 20.8                               | 1.8                                | 5.3                                | 0.6                                | 0.9                                | 0.1                                | 0.6                                | 0.1                                | 14.0                              | 1.13   | 10.9   | 1     |
|         | 112.0  | 113.0 | 4,621                              | 7,886                | 718                                | 2,146                              | 163                                | 29.4                               | 49.7                               | 4.5                                | 13.1                               | 1.3                                | 2.2                                | 0.3                                | 1.1                                | 0.2                                | 33.0                              | 1.57   | 41.1   | 1.3   |
|         | 113.0  | 114.0 | 10,285                             | 17,750               | 1,649                              | 4,934                              | 362                                | 61.0                               | 97.6                               | 7.2                                | 18.5                               | 1.8                                | 2.7                                | 0.2                                | 0.9                                | 0.1                                | 39.4                              | 3.52   | 63.6   | 1.9   |
|         | 114.0  | 115.0 | 5,747                              | 10,343               | 968                                | 2,846                              | 216                                | 38.0                               | 62.4                               | 5.3                                | 16.0                               | 1.8                                | 3.1                                | 0.3                                | 1.6                                | 0.2                                | 41.9                              | 2.03   | 41.8   | 1.3   |
|         | 115.0  | 116.0 | 11,118                             | 20,023               | 1,879                              | 5,517                              | 391                                | 61.6                               | 99.4                               | 7.3                                | 19.9                               | 1.8                                | 2.7                                | 0.2                                | 1.0                                | 0.1                                | 39.4                              | 3.92   | 73.2   | 1     |
|         | 116.0  | 117.0 | 7,271                              | 11,891               | 1,056                              | 2,963                              | 202                                | 33.2                               | 54.2                               | 4.4                                | 11.9                               | 1.2                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 2.35   | 30.4   | 0.4   |
|         | 117.0  | 118.0 | 6,615                              | 10,785               | 933                                | 2,566                              | 169                                | 28.1                               | 46.7                               | 3.7                                | 10.6                               | 1.1                                | 1.8                                | 0.1                                | 0.9                                | 0.1                                | 25.4                              | 2.12   | 28.3   | -0.3  |
|         | 118.0  | 119.0 | 8,432                              | 14,004               | 1,317                              | 3,464                              | 213                                | 34.2                               | 63.7                               | 4.3                                | 10.9                               | 1.1                                | 1.9                                | 0.2                                | 0.7                                | 0.1                                | 26.7                              | 2.76   | 29.4   | 0.4   |
|         | 119.0  | 120.0 | 9,277                              | 15,171               | 1,468                              | 3,814                              | 231                                | 36.9                               | 67.5                               | 4.4                                | 10.9                               | 1.1                                | 1.7                                | 0.2                                | 0.7                                | 0.1                                | 24.1                              | 3.01   | 25.1   | 0.5   |
|         | 120.0  | 121.0 | 6,978                              | 10,945               | 1,025                              | 2,601                              | 155                                | 24.9                               | 46.1                               | 3.3                                | 9.0                                | 1.0                                | 1.6                                | 0.1                                | 0.7                                | 0.1                                | 22.9                              | 2.18   | 18.6   | 0.6   |
|         | 121.0  | 122.0 | 5,477                              | 8,599                | 758                                | 2,035                              | 121                                | 20.2                               | 37.5                               | 2.6                                | 7.6                                | 0.9                                | 1.6                                | 0.2                                | 0.7                                | 0.1                                | 21.6                              | 1.71   | 14     | 0.3   |
|         | 122.0  | 123.0 | 6,040                              | 9,643                | 840                                | 2,263                              | 133                                | 20.8                               | 39.7                               | 2.7                                | 7.4                                | 0.8                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.90   | 14.7   | -0.3  |
|         | 123.0  | 124.0 | 10,074                             | 15,969               | 1,468                              | 3,709                              | 217                                | 34.3                               | 60.2                               | 4.0                                | 10.7                               | 1.1                                | 1.7                                | 0.2                                | 0.7                                | 0.1                                | 25.4                              | 3.16   | 23.6   | 0.6   |

| Hole ID           | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|-------------------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|                   | 124.0  | 125.0 | 8,163                              | 13,021               | 1,226                              | 3,184                              | 193                                | 31.4                               | 60.9                               | 5.2                                | 16.8                               | 1.9                                | 3.1                                | 0.3                                | 1.3                                | 0.2                                | 45.7                              | 2.60   | 30.6   | 0.5   |
|                   | 125.0  | 126.0 | 15,481                             | 23,585               | 2,132                              | 5,797                              | 325                                | 53.8                               | 99.8                               | 7.4                                | 21.1                               | 2.2                                | 3.4                                | 0.3                                | 1.3                                | 0.2                                | 48.3                              | 4.76   | 56.2   | 0.7   |
|                   | 126.0  | 127.0 | 6,615                              | 10,405               | 907                                | 2,414                              | 141                                | 23.6                               | 43.9                               | 3.3                                | 8.7                                | 1.0                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.06   | 16.3   | 0.5   |
|                   | 127.0  | 128.0 | 11,060                             | 16,031               | 1,359                              | 3,581                              | 220                                | 35.3                               | 60.4                               | 4.3                                | 11.3                               | 1.2                                | 1.9                                | 0.2                                | 0.8                                | 0.2                                | 26.7                              | 3.24   | 24.6   | 0.3   |
|                   | 128.0  | 129.0 | 7,224                              | 10,626               | 907                                | 2,473                              | 150                                | 25.6                               | 41.4                               | 3.1                                | 8.8                                | 1.0                                | 1.6                                | 0.2                                | 1.0                                | 0.2                                | 21.6                              | 2.15   | 16.8   | -0.3  |
|                   | 129.0  | 130.0 | 6,638                              | 9,741                | 845                                | 2,315                              | 142                                | 23.5                               | 38.5                               | 2.9                                | 7.6                                | 0.9                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 19.1                              | 1.98   | 15.3   | -0.3  |
|                   | 130.0  | 131.0 | 5,817                              | 8,857                | 762                                | 2,094                              | 131                                | 22.0                               | 36.4                               | 2.7                                | 7.1                                | 0.9                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.78   | 14.6   | -0.3  |
|                   | 131.0  | 132.0 | 7,436                              | 11,535               | 1,078                              | 2,753                              | 166                                | 26.4                               | 48.8                               | 3.1                                | 8.6                                | 0.9                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 19.1                              | 2.31   | 17.8   | 0.3   |
|                   | 132.0  | 133.0 | 4,879                              | 7,849                | 713                                | 2,018                              | 132                                | 21.5                               | 41.7                               | 2.8                                | 8.2                                | 0.9                                | 1.5                                | 0.1                                | 0.5                                | 0.1                                | 19.1                              | 1.57   | 16.2   | -0.3  |
|                   | 133.0  | 134.0 | 9,253                              | 14,679               | 1,395                              | 3,581                              | 217                                | 34.4                               | 61.3                               | 4.1                                | 11.3                               | 1.2                                | 1.7                                | 0.2                                | 0.6                                | 0.1                                | 26.7                              | 2.93   | 23.9   | 0.5   |
|                   | 134.0  | 135.0 | 6,028                              | 9,631                | 855                                | 2,356                              | 147                                | 24.6                               | 47.3                               | 3.5                                | 10.3                               | 1.1                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 1.91   | 20.9   | 0.3   |
|                   | 135.0  | 136.0 | 14,484                             | 20,637               | 1,818                              | 4,479                              | 262                                | 42.4                               | 77.3                               | 5.5                                | 14.7                               | 1.4                                | 2.3                                | 0.2                                | 0.7                                | 0.1                                | 30.5                              | 4.19   | 31.9   | 0.4   |
|                   | 136.0  | 137.0 | 26,623                             | 39,432               | 3,492                              | 9,051                              | 499                                | 81.5                               | 148.1                              | 9.4                                | 23.2                               | 2.2                                | 3.2                                | 0.3                                | 0.8                                | 0.1                                | 44.5                              | 7.94   | 57.8   | 0.4   |
|                   | 137.0  | 138.0 | 7,447                              | 11,731               | 1,086                              | 2,823                              | 177                                | 29.6                               | 56.9                               | 3.9                                | 10.9                               | 1.2                                | 1.8                                | 0.1                                | 0.7                                | 0.1                                | 25.4                              | 2.34   | 20.2   | -0.3  |
|                   | 138.0  | 139.0 | 7,365                              | 11,486               | 1,070                              | 2,718                              | 164                                | 28.0                               | 51.6                               | 3.5                                | 9.2                                | 1.0                                | 1.7                                | 0.2                                | 0.5                                | 0.1                                | 22.9                              | 2.29   | 20     | 1     |
|                   | 139.0  | 140.0 | 7,365                              | 11,817               | 1,113                              | 2,939                              | 192                                | 32.1                               | 62.1                               | 4.5                                | 13.5                               | 1.6                                | 2.4                                | 0.2                                | 1.1                                | 0.1                                | 35.6                              | 2.36   | 29.8   | 0.4   |
|                   | 140.0  | 141.0 | 5,805                              | 9,188                | 818                                | 2,228                              | 139                                | 22.5                               | 42.5                               | 2.9                                | 8.6                                | 1.0                                | 1.7                                | 0.2                                | 0.7                                | 0.1                                | 22.9                              | 1.83   | 15.8   | 0.6   |
|                   | 141.0  | 142.0 | 9,887                              | 14,741               | 1,329                              | 3,383                              | 184                                | 29.0                               | 51.9                               | 3.4                                | 8.4                                | 0.8                                | 1.3                                | 0.1                                | 0.5                                | -0.1                               | 17.8                              | 2.96   | 17.4   | 0.8   |
|                   | 142.0  | 143.0 | 16,654                             | 25,919               | 2,380                              | 6,380                              | 348                                | 53.2                               | 93.5                               | 5.8                                | 14.5                               | 1.5                                | 2.1                                | 0.2                                | 0.7                                | 0.1                                | 29.2                              | 5.19   | 33.2   | 0.3   |
|                   | 143.0  | 144.0 | 15,070                             | 23,770               | 2,223                              | 6,054                              | 340                                | 54.2                               | 97.1                               | 6.4                                | 16.5                               | 1.6                                | 2.3                                | 0.2                                | 0.7                                | 0.1                                | 34.3                              | 4.77   | 35.8   | 0.3   |
|                   | 144.0  | 145.0 | 12,138                             | 19,470               | 1,843                              | 5,214                              | 340                                | 53.0                               | 92.2                               | 5.9                                | 15.8                               | 1.6                                | 2.4                                | 0.2                                | 0.8                                | 0.1                                | 33.0                              | 3.92   | 59.8   | 0.3   |
|                   | 145.0  | 146.0 | 11,400                             | 17,812               | 1,661                              | 4,222                              | 246                                | 39.5                               | 72.2                               | 5.0                                | 12.9                               | 1.4                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 30.5                              | 3.55   | 26.2   | 0.3   |
|                   | 146.0  | 147.0 | 16,947                             | 26,656               | 2,513                              | 6,823                              | 379                                | 61.0                               | 106.6                              | 7.0                                | 19.1                               | 2.0                                | 3.1                                | 0.3                                | 1.0                                | 0.2                                | 40.6                              | 5.36   | 35.1   | 0.4   |
|                   | 147.0  | 148.0 | 18,002                             | 27,148               | 2,477                              | 6,252                              | 358                                | 56.2                               | 92.7                               | 6.1                                | 14.8                               | 1.7                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 30.5                              | 5.44   | 36.3   | 0.4   |
|                   | 148.0  | 149.0 | 8,210                              | 11,596               | 983                                | 2,636                              | 157                                | 25.7                               | 41.3                               | 3.0                                | 7.4                                | 0.9                                | 1.5                                | 0.1                                | 0.8                                | 0.1                                | 19.1                              | 2.37   | 16.6   | 0.3   |
|                   | 149.0  | 150.0 | 14,425                             | 21,006               | 1,812                              | 4,841                              | 293                                | 46.8                               | 75.5                               | 5.2                                | 12.5                               | 1.3                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 30.5                              | 4.26   | 35.3   | 0.5   |
|                   | 150.0  | 151.0 | 24,277                             | 34,887               | 3,141                              | 7,803                              | 467                                | 76.1                               | 125.6                              | 9.2                                | 23.8                               | 2.5                                | 4.4                                | 0.4                                | 1.6                                | 0.2                                | 55.9                              | 7.09   | 58     | 0.9   |
|                   | 151.0  | 152.0 | 11,470                             | 15,232               | 1,263                              | 3,289                              | 203                                | 33.0                               | 55.3                               | 4.1                                | 10.3                               | 1.2                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 3.16   | 24.8   | 0.4   |
|                   | 152.0  | 153.0 | 23,397                             | 30,956               | 2,670                              | 6,415                              | 341                                | 51.4                               | 86.2                               | 6.3                                | 15.4                               | 1.5                                | 2.4                                | 0.2                                | 0.8                                | 0.2                                | 30.5                              | 6.40   | 38.9   | 0.5   |
|                   | 153.0  | 154.0 | 19,820                             | 26,288               | 2,247                              | 5,447                              | 313                                | 49.3                               | 84.4                               | 6.3                                | 15.2                               | 1.5                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 33.0                              | 5.43   | 31.3   | 0.5   |
|                   | 154.0  | 155.0 | 16,009                             | 22,848               | 1,903                              | 4,934                              | 295                                | 49.7                               | 83.3                               | 6.3                                | 18.1                               | 2.1                                | 3.5                                | 0.3                                | 1.6                                | 0.2                                | 47.0                              | 4.62   | 34.7   | 1.1   |
|                   | 155.0  | 156.0 | 12,197                             | 17,873               | 1,698                              | 5,424                              | 507                                | 82.1                               | 132.0                              | 8.6                                | 24.0                               | 2.6                                | 4.5                                | 0.4                                | 2.9                                | 0.4                                | 59.7                              | 3.80   | 179.5  | 1     |
|                   | 156.0  | 157.0 | 12,959                             | 18,979               | 1,625                              | 4,351                              | 253                                | 40.6                               | 63.5                               | 4.3                                | 11.8                               | 1.2                                | 1.9                                | 0.1                                | 0.8                                | 0.1                                | 26.7                              | 3.83   | 31     | 0.5   |
|                   | 157.0  | 158.0 | 15,246                             | 22,111               | 1,867                              | 4,887                              | 289                                | 46.1                               | 76.5                               | 5.5                                | 13.9                               | 1.4                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 30.5                              | 4.46   | 32     | 0.7   |
|                   | 158.0  | 159.0 | 14,308                             | 21,620               | 1,897                              | 5,121                              | 311                                | 49.2                               | 81.0                               | 5.4                                | 14.8                               | 1.5                                | 2.2                                | 0.2                                | 0.9                                | 0.1                                | 31.8                              | 4.34   | 36.3   | 0.6   |
|                   | 159.0  | 160.0 | 18,296                             | 27,516               | 2,610                              | 6,648                              | 407                                | 64.3                               | 103.7                              | 7.4                                | 19.2                               | 2.2                                | 3.1                                | 0.3                                | 1.1                                | 0.2                                | 45.7                              | 5.57   | 52     | 0.5   |
|                   | 160.0  | 161.0 | 13,839                             | 20,699               | 1,782                              | 4,712                              | 266                                | 42.3                               | 65.1                               | 4.6                                | 11.9                               | 1.1                                | 2.1                                | 0.1                                | 0.9                                | 0.1                                | 25.4                              | 4.15   | 27.2   | 0.5   |
|                   | 161.0  | 162.0 | 15,833                             | 26,042               | 2,368                              | 6,847                              | 444                                | 71.1                               | 117.6                              | 7.8                                | 21.6                               | 2.2                                | 3.4                                | 0.3                                | 1.1                                | 0.2                                | 47.0                              | 5.18   | 56.9   | 0.6   |
|                   | 162.0  | 163.0 | 25,098                             | 40,783               | 3,758                              | 10,684                             | 670                                | 104.2                              | 171.2                              | 11.2                               | 30.2                               | 3.2                                | 4.7                                | 0.4                                | 1.8                                | 0.3                                | 68.6                              | 8.14   | 82.2   | 1.2   |
|                   | 163.0  | 164.0 | 9,910                              | 15,171               | 1,293                              | 3,593                              | 215                                | 33.8                               | 55.1                               | 3.7                                | 10.3                               | 1.1                                | 2.1                                | 0.2                                | 0.8                                | 0.2                                | 25.4                              | 3.03   | 26.1   | 0.5   |
|                   | 164.0  | 165.0 | 10,110                             | 16,399               | 1,474                              | 4,211                              | 263                                | 41.6                               | 68.1                               | 4.4                                | 12.4                               | 1.4                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 30.5                              | 3.26   | 36.9   | 0.5   |
|                   | 165.0  | 166.0 | 10,297                             | 15,724               | 1,462                              | 4,176                              | 274                                | 44.0                               | 76.7                               | 5.2                                | 15.2                               | 1.8                                | 2.6                                | 0.4                                | 1.1                                | 0.3                                | 34.3                              | 3.21   | 35.7   | 0.6   |
|                   | 166.0  | 167.0 | 11,294                             | 17,996               | 1,685                              | 4,829                              | 313                                | 49.8                               | 85.0                               | 5.6                                | 15.0                               | 1.6                                | 2.7                                | 0.2                                | 0.9                                | 0.1                                | 33.0                              | 3.63   | 41.8   | 0.5   |
| <b>KGKRCDD009</b> | 0.0    | 1.0   | 4,304                              | 9,360                | 962                                | 3,208                              | 239                                | 40.8                               | 72.6                               | 5.2                                | 15.4                               | 1.5                                | 2.5                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 1.82   | 66.9   | 21.7  |
|                   | 1.0    | 2.0   | 2,439                              | 5,528                | 629                                | 2,461                              | 270                                | 49.4                               | 92.0                               | 7.3                                | 26.9                               | 3.6                                | 8.0                                | 0.9                                | 5.6                                | 0.7                                | 91.4                              | 1.16   | 83.1   | 22.9  |
|                   | 2.0    | 3.0   | 854                                | 2,352                | 271                                | 1,095                              | 161                                | 37.2                               | 82.5                               | 8.5                                | 42.7                               | 6.9                                | 17.2                               | 2.2                                | 11.8                               | 1.7                                | 198.1                             | 0.51   | 87.2   | 23.2  |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 3.0    | 4.0  | 2,850                              | 5,970                | 620                                | 2,164                              | 202                                | 36.4                               | 66.4                               | 5.0                                | 14.6                               | 1.8                                | 3.4                                | 0.4                                | 2.2                                | 0.3                                | 41.9                              | 1.20   | 64.8   | 18.3  |
|         | 4.0    | 5.0  | 3,471                              | 7,592                | 787                                | 2,624                              | 199                                | 33.1                               | 58.8                               | 4.6                                | 14.5                               | 1.4                                | 2.4                                | 0.3                                | 1.3                                | 0.2                                | 33.0                              | 1.48   | 70.3   | 14.1  |
|         | 5.0    | 6.0  | 2,439                              | 5,565                | 596                                | 2,100                              | 187                                | 31.4                               | 56.7                               | 3.7                                | 11.3                               | 1.2                                | 2.1                                | 0.2                                | 1.1                                | 0.1                                | 26.7                              | 1.10   | 58.5   | 20    |
|         | 6.0    | 7.0  | 1,255                              | 3,132                | 340                                | 1,289                              | 156                                | 32.2                               | 65.2                               | 5.5                                | 20.5                               | 2.6                                | 4.9                                | 0.6                                | 3.8                                | 0.5                                | 67.3                              | 0.64   | 54.8   | 24.2  |
|         | 7.0    | 8.0  | 1,095                              | 2,690                | 278                                | 980                                | 105                                | 21.5                               | 43.3                               | 3.9                                | 14.9                               | 2.1                                | 4.8                                | 0.6                                | 3.4                                | 0.5                                | 55.9                              | 0.53   | 44.8   | 33.7  |
|         | 8.0    | 9.0  | 1,935                              | 4,533                | 463                                | 1,621                              | 137                                | 22.9                               | 39.3                               | 2.8                                | 9.3                                | 1.2                                | 2.3                                | 0.3                                | 1.7                                | 0.3                                | 31.8                              | 0.88   | 49.1   | 34.5  |
|         | 9.0    | 10.0 | 2,627                              | 5,958                | 628                                | 2,187                              | 184                                | 31.7                               | 54.3                               | 4.0                                | 12.4                               | 1.4                                | 2.3                                | 0.2                                | 1.5                                | 0.2                                | 33.0                              | 1.17   | 56.9   | 25.6  |
|         | 10.0   | 11.0 | 1,172                              | 2,653                | 255                                | 849                                | 73                                 | 13.7                               | 27.7                               | 2.5                                | 9.9                                | 1.4                                | 2.7                                | 0.3                                | 2.3                                | 0.3                                | 36.8                              | 0.51   | 40.7   | 32.8  |
|         | 11.0   | 12.0 | 1,231                              | 2,690                | 251                                | 794                                | 53                                 | 8.9                                | 15.3                               | 1.3                                | 5.1                                | 0.7                                | 1.5                                | 0.2                                | 1.3                                | 0.2                                | 19.1                              | 0.51   | 25.1   | 27.1  |
|         | 12.0   | 13.0 | 1,484                              | 3,120                | 288                                | 884                                | 61                                 | 10.7                               | 20.4                               | 1.7                                | 6.5                                | 0.9                                | 1.8                                | 0.2                                | 1.5                                | 0.2                                | 25.4                              | 0.59   | 32.4   | 32.9  |
|         | 13.0   | 14.0 | 2,346                              | 5,294                | 553                                | 1,913                              | 165                                | 29.4                               | 50.3                               | 3.5                                | 11.4                               | 1.3                                | 2.1                                | 0.3                                | 1.3                                | 0.2                                | 29.2                              | 1.04   | 51.2   | 26    |
|         | 14.0   | 15.0 | 3,753                              | 7,346                | 700                                | 2,205                              | 151                                | 27.0                               | 50.3                               | 4.7                                | 15.4                               | 1.6                                | 2.5                                | 0.2                                | 1.1                                | 0.2                                | 38.1                              | 1.43   | 64.3   | 20.3  |
|         | 15.0   | 16.0 | 12,549                             | 23,462               | 2,277                              | 6,310                              | 394                                | 63.8                               | 106.6                              | 7.8                                | 24.5                               | 2.6                                | 4.4                                | 0.4                                | 1.7                                | 0.2                                | 61.0                              | 4.53   | 89.5   | 11.2  |
|         | 16.0   | 17.0 | 18,061                             | 33,412               | 3,214                              | 9,623                              | 579                                | 96.9                               | 166.6                              | 12.5                               | 40.3                               | 3.8                                | 5.8                                | 0.5                                | 2.2                                | 0.3                                | 92.7                              | 6.53   | 144    | 9.9   |
|         | 17.0   | 18.0 | 11,904                             | 24,568               | 2,586                              | 7,698                              | 567                                | 97.7                               | 165.4                              | 12.2                               | 36.4                               | 3.8                                | 6.0                                | 0.6                                | 3.0                                | 0.4                                | 94.0                              | 4.77   | 112    | 14    |
|         | 18.0   | 19.0 | 8,362                              | 15,294               | 1,402                              | 4,281                              | 279                                | 46.6                               | 76.5                               | 5.7                                | 17.0                               | 1.8                                | 3.1                                | 0.3                                | 1.5                                | 0.2                                | 43.2                              | 2.98   | 48.1   | 7.6   |
|         | 19.0   | 20.0 | 6,708                              | 13,021               | 1,275                              | 4,094                              | 286                                | 49.2                               | 82.1                               | 6.5                                | 20.7                               | 2.3                                | 3.8                                | 0.5                                | 2.2                                | 0.3                                | 54.6                              | 2.56   | 60.6   | 8.6   |
|         | 20.0   | 21.0 | 3,706                              | 7,100                | 683                                | 2,199                              | 175                                | 31.3                               | 57.2                               | 4.7                                | 15.2                               | 1.8                                | 3.7                                | 0.4                                | 2.9                                | 0.4                                | 48.3                              | 1.40   | 52.5   | 13.2  |
|         | 21.0   | 22.0 | 2,592                              | 5,442                | 542                                | 1,796                              | 140                                | 23.2                               | 40.6                               | 3.2                                | 10.2                               | 1.1                                | 1.9                                | 0.2                                | 1.1                                | 0.1                                | 29.2                              | 1.06   | 38.9   | 18.1  |
|         | 22.0   | 23.0 | 3,284                              | 7,248                | 761                                | 2,578                              | 202                                | 34.6                               | 62.0                               | 4.9                                | 15.0                               | 1.5                                | 2.2                                | 0.2                                | 1.1                                | 0.1                                | 34.3                              | 1.42   | 66     | 14.1  |
|         | 23.0   | 24.0 | 5,196                              | 11,326               | 1,154                              | 3,744                              | 249                                | 39.4                               | 64.3                               | 5.1                                | 16.8                               | 1.8                                | 2.6                                | 0.2                                | 1.3                                | 0.1                                | 39.4                              | 2.18   | 45.3   | 8.7   |
|         | 24.0   | 25.0 | 2,592                              | 5,282                | 523                                | 1,703                              | 125                                | 20.6                               | 35.2                               | 2.6                                | 8.5                                | 0.9                                | 1.8                                | 0.2                                | 1.1                                | 0.2                                | 24.1                              | 1.03   | 29.3   | 33.7  |
|         | 25.0   | 26.0 | 3,202                              | 7,088                | 741                                | 2,508                              | 178                                | 28.1                               | 45.3                               | 3.1                                | 9.6                                | 1.1                                | 1.8                                | 0.2                                | 1.0                                | 0.2                                | 24.1                              | 1.38   | 39.4   | 32.5  |
|         | 26.0   | 27.0 | 1,454                              | 3,661                | 387                                | 1,365                              | 115                                | 19.7                               | 33.3                               | 2.4                                | 8.2                                | 0.9                                | 1.9                                | 0.4                                | 1.3                                | 0.4                                | 22.9                              | 0.71   | 33     | 43.1  |
|         | 27.0   | 28.0 | 1,237                              | 3,194                | 359                                | 1,411                              | 171                                | 33.6                               | 64.9                               | 5.3                                | 18.4                               | 2.3                                | 4.7                                | 0.5                                | 3.2                                | 0.5                                | 59.7                              | 0.66   | 43.4   | 26.9  |
|         | 28.0   | 29.0 | 1,029                              | 2,494                | 273                                | 1,079                              | 146                                | 31.5                               | 62.8                               | 4.9                                | 16.8                               | 2.0                                | 4.1                                | 0.4                                | 2.5                                | 0.3                                | 52.1                              | 0.52   | 43.7   | 28.2  |
|         | 29.0   | 30.0 | 3,120                              | 6,400                | 663                                | 2,298                              | 209                                | 36.8                               | 65.0                               | 4.5                                | 14.2                               | 1.6                                | 2.5                                | 0.3                                | 1.5                                | 0.3                                | 34.3                              | 1.29   | 40.5   | 21.8  |
|         | 30.0   | 31.0 | 4,832                              | 10,220               | 1,092                              | 3,266                              | 234                                | 36.8                               | 56.9                               | 3.3                                | 13.1                               | 1.4                                | 2.2                                | 0.2                                | 1.3                                | 0.1                                | 31.8                              | 1.98   | 37.6   | 10.6  |
|         | 31.0   | 32.0 | 4,621                              | 9,729                | 1,051                              | 3,161                              | 241                                | 38.8                               | 60.3                               | 3.6                                | 13.4                               | 1.4                                | 2.3                                | 0.2                                | 1.3                                | 0.1                                | 31.8                              | 1.90   | 44.3   | 14.4  |
|         | 32.0   | 33.0 | 3,776                              | 7,567                | 834                                | 2,531                              | 207                                | 34.5                               | 57.1                               | 4.0                                | 14.2                               | 1.6                                | 2.7                                | 0.2                                | 1.5                                | 0.1                                | 35.6                              | 1.51   | 45.1   | 17.7  |
|         | 33.0   | 34.0 | 2,111                              | 4,717                | 527                                | 1,790                              | 179                                | 33.1                               | 58.4                               | 4.5                                | 16.8                               | 2.1                                | 4.4                                | 0.4                                | 2.9                                | 0.4                                | 55.9                              | 0.95   | 44.8   | 23.5  |
|         | 34.0   | 35.0 | 4,023                              | 8,795                | 975                                | 3,021                              | 241                                | 41.1                               | 69.6                               | 5.0                                | 18.4                               | 2.0                                | 3.7                                | 0.3                                | 2.1                                | 0.2                                | 45.7                              | 1.72   | 62.7   | 22.8  |
|         | 35.0   | 36.0 | 1,102                              | 2,531                | 290                                | 1,018                              | 114                                | 22.4                               | 42.0                               | 3.5                                | 13.8                               | 1.7                                | 3.7                                | 0.4                                | 2.7                                | 0.3                                | 45.7                              | 0.52   | 40.1   | 25.9  |
|         | 36.0   | 37.0 | 1,419                              | 3,464                | 394                                | 1,359                              | 121                                | 21.3                               | 35.7                               | 2.8                                | 11.5                               | 1.3                                | 2.4                                | 0.2                                | 1.5                                | 0.1                                | 31.8                              | 0.69   | 31.5   | 25.4  |
|         | 37.0   | 38.0 | 1,929                              | 4,680                | 540                                | 1,849                              | 170                                | 28.8                               | 47.6                               | 3.2                                | 11.5                               | 1.2                                | 2.2                                | 0.2                                | 1.3                                | 0.1                                | 30.5                              | 0.93   | 43     | 21.7  |
|         | 38.0   | 39.0 | 5,852                              | 11,744               | 1,232                              | 3,593                              | 248                                | 40.3                               | 60.1                               | 3.6                                | 14.0                               | 1.6                                | 2.5                                | 0.2                                | 1.3                                | 0.1                                | 31.8                              | 2.28   | 36     | 13.2  |
|         | 39.0   | 40.0 | 4,539                              | 9,594                | 1,038                              | 3,138                              | 224                                | 35.6                               | 52.6                               | 2.9                                | 11.4                               | 1.3                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 1.87   | 30.4   | 10    |
|         | 40.0   | 41.0 | 4,691                              | 9,987                | 1,080                              | 3,243                              | 227                                | 35.1                               | 54.5                               | 3.4                                | 13.5                               | 1.4                                | 2.1                                | 0.1                                | 0.9                                | -0.1                               | 30.5                              | 1.94   | 36.7   | 7.2   |
|         | 41.0   | 42.0 | 3,847                              | 8,967                | 1,064                              | 3,418                              | 288                                | 46.9                               | 72.3                               | 4.1                                | 14.9                               | 1.5                                | 2.6                                | 0.2                                | 1.5                                | 0.1                                | 36.8                              | 1.78   | 53.6   | 6.8   |
|         | 42.0   | 43.0 | 4,703                              | 10,736               | 1,263                              | 4,176                              | 343                                | 58.0                               | 87.9                               | 4.8                                | 17.1                               | 1.7                                | 3.0                                | 0.2                                | 1.4                                | 0.1                                | 40.6                              | 2.14   | 65.8   | 7.8   |
|         | 43.0   | 44.0 | 4,808                              | 10,380               | 1,141                              | 3,488                              | 250                                | 39.0                               | 60.4                               | 3.7                                | 14.9                               | 1.4                                | 2.4                                | 0.2                                | 0.8                                | -0.1                               | 30.5                              | 2.02   | 39.9   | 6.2   |
|         | 44.0   | 45.0 | 7,881                              | 15,846               | 1,649                              | 5,074                              | 332                                | 51.5                               | 75.2                               | 4.0                                | 15.6                               | 1.7                                | 2.4                                | 0.1                                | 0.9                                | 0.1                                | 33.0                              | 3.10   | 45.5   | 8.4   |
|         | 45.0   | 46.0 | 6,099                              | 13,328               | 1,474                              | 4,631                              | 328                                | 50.7                               | 76.5                               | 4.7                                | 18.8                               | 1.9                                | 3.1                                | 0.3                                | 1.4                                | 0.1                                | 45.7                              | 2.61   | 53.8   | 6.7   |
|         | 46.0   | 47.0 | 4,902                              | 12,345               | 1,492                              | 5,062                              | 391                                | 61.4                               | 91.5                               | 4.8                                | 18.8                               | 2.0                                | 3.1                                | 0.3                                | 1.7                                | 0.2                                | 44.5                              | 2.44   | 78.8   | 4.6   |
|         | 47.0   | 48.0 | 5,113                              | 11,584               | 1,305                              | 4,234                              | 325                                | 52.1                               | 84.4                               | 5.9                                | 22.7                               | 2.4                                | 3.8                                | 0.3                                | 1.7                                | 0.2                                | 54.6                              | 2.28   | 77.4   | 8.7   |
|         | 48.0   | 49.0 | 4,117                              | 8,611                | 944                                | 2,799                              | 208                                | 33.7                               | 56.3                               | 4.3                                | 17.3                               | 1.9                                | 3.3                                | 0.3                                | 1.6                                | 0.2                                | 47.0                              | 1.68   | 53.8   | 8.3   |

| Hole ID | From m | To m | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 49.0   | 50.0 | 3,659                              | 7,813                | 854                                | 2,683                              | 224                                | 38.8                               | 67.4                               | 5.2                                | 18.7                               | 2.0                                | 3.3                                | 0.3                                | 1.7                                | 0.2                                | 45.7                              | 1.54   | 62.7   | 9     |
|         | 50.0   | 51.0 | 2,615                              | 5,208                | 544                                | 1,697                              | 139                                | 24.4                               | 41.3                               | 3.1                                | 11.3                               | 1.3                                | 2.3                                | 0.2                                | 1.4                                | 0.1                                | 30.5                              | 1.03   | 33.5   | 7.3   |
|         | 51.0   | 52.0 | 4,011                              | 9,434                | 1,085                              | 3,406                              | 256                                | 42.4                               | 69.0                               | 4.5                                | 17.0                               | 1.8                                | 2.7                                | 0.2                                | 1.4                                | 0.1                                | 38.1                              | 1.84   | 64.9   | 10.3  |
|         | 52.0   | 53.0 | 5,067                              | 12,186               | 1,395                              | 4,502                              | 317                                | 49.9                               | 77.8                               | 5.1                                | 19.7                               | 1.9                                | 3.1                                | 0.2                                | 1.0                                | 0.1                                | 39.4                              | 2.37   | 70.8   | 6.1   |
|         | 53.0   | 54.0 | 3,143                              | 6,781                | 739                                | 2,379                              | 192                                | 33.2                               | 52.4                               | 3.3                                | 12.2                               | 1.4                                | 2.3                                | 0.2                                | 1.1                                | 0.1                                | 29.2                              | 1.34   | 29.5   | 6.9   |
|         | 54.0   | 55.0 | 3,870                              | 8,820                | 1,014                              | 3,114                              | 235                                | 37.5                               | 60.1                               | 3.7                                | 14.0                               | 1.5                                | 2.6                                | 0.2                                | 1.1                                | 0.1                                | 33.0                              | 1.72   | 42.9   | 7.1   |
|         | 55.0   | 56.0 | 3,178                              | 6,879                | 762                                | 2,508                              | 226                                | 43.3                               | 81.3                               | 7.4                                | 31.7                               | 4.3                                | 9.2                                | 1.0                                | 5.9                                | 0.8                                | 114.3                             | 1.39   | 64.4   | 10    |
|         | 56.0   | 57.0 | 4,562                              | 9,925                | 1,075                              | 3,196                              | 222                                | 35.9                               | 55.7                               | 3.5                                | 13.5                               | 1.4                                | 2.6                                | 0.2                                | 1.0                                | 0.1                                | 31.8                              | 1.91   | 41.2   | 13.6  |
|         | 57.0   | 58.0 | 4,034                              | 8,279                | 869                                | 2,613                              | 185                                | 29.5                               | 45.1                               | 2.8                                | 11.5                               | 1.2                                | 1.9                                | 0.1                                | 0.8                                | -0.1                               | 25.4                              | 1.61   | 33     | 13.4  |
|         | 58.0   | 59.0 | 5,078                              | 10,871               | 1,186                              | 3,593                              | 264                                | 43.3                               | 70.1                               | 4.7                                | 17.5                               | 1.7                                | 2.7                                | 0.2                                | 1.0                                | 0.1                                | 38.1                              | 2.12   | 53.7   | 8.7   |
|         | 59.0   | 60.0 | 7,095                              | 15,416               | 1,698                              | 5,214                              | 337                                | 54.0                               | 89.1                               | 5.7                                | 16.4                               | 1.6                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 34.3                              | 3.00   | 61.7   | 9     |
|         | 60.0   | 61.0 | 5,254                              | 11,264               | 1,173                              | 3,977                              | 292                                | 48.8                               | 83.3                               | 5.4                                | 15.8                               | 1.7                                | 2.4                                | 0.2                                | 1.1                                | 0.2                                | 36.8                              | 2.22   | 60.7   | 7.7   |
|         | 61.0   | 62.0 | 5,758                              | 12,468               | 1,293                              | 4,211                              | 260                                | 40.2                               | 64.6                               | 4.2                                | 11.4                               | 1.2                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 27.9                              | 2.41   | 40.1   | 7     |
|         | 62.0   | 63.0 | 5,454                              | 12,775               | 1,389                              | 4,677                              | 293                                | 44.9                               | 74.8                               | 4.8                                | 13.5                               | 1.4                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 33.0                              | 2.48   | 50.2   | 6.1   |
|         | 63.0   | 64.0 | 4,738                              | 9,962                | 1,032                              | 3,511                              | 269                                | 45.0                               | 79.5                               | 5.1                                | 14.9                               | 1.5                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 34.3                              | 1.97   | 59.9   | 7.4   |
|         | 64.0   | 65.0 | 5,160                              | 11,829               | 1,275                              | 4,432                              | 330                                | 55.5                               | 96.5                               | 6.0                                | 17.6                               | 1.7                                | 2.6                                | 0.2                                | 1.3                                | 0.2                                | 38.1                              | 2.32   | 68.4   | 5.6   |
|         | 65.0   | 66.0 | 5,606                              | 11,301               | 1,165                              | 3,931                              | 299                                | 49.9                               | 84.3                               | 4.9                                | 13.9                               | 1.4                                | 2.3                                | 0.2                                | 1.0                                | 0.2                                | 30.5                              | 2.25   | 50.3   | 7.2   |
|         | 66.0   | 67.0 | 5,266                              | 11,252               | 1,190                              | 4,071                              | 311                                | 53.7                               | 90.6                               | 5.8                                | 16.6                               | 1.7                                | 2.5                                | 0.2                                | 1.4                                | 0.2                                | 39.4                              | 2.23   | 58.6   | 7     |
|         | 67.0   | 68.0 | 6,063                              | 13,021               | 1,377                              | 4,724                              | 357                                | 60.9                               | 106.4                              | 6.9                                | 19.3                               | 2.0                                | 2.9                                | 0.2                                | 1.0                                | 0.1                                | 40.6                              | 2.58   | 78.1   | 4.8   |
|         | 68.0   | 69.0 | 5,313                              | 10,871               | 1,116                              | 3,732                              | 281                                | 47.6                               | 82.9                               | 5.3                                | 15.0                               | 1.7                                | 2.7                                | 0.2                                | 1.5                                | 0.2                                | 38.1                              | 2.15   | 46.7   | 5.9   |
|         | 69.0   | 70.0 | 4,445                              | 8,844                | 893                                | 3,033                              | 245                                | 43.5                               | 81.5                               | 5.7                                | 20.1                               | 2.5                                | 4.7                                | 0.5                                | 2.6                                | 0.4                                | 67.3                              | 1.77   | 45.5   | 7.2   |
|         | 70.0   | 71.0 | 4,679                              | 9,508                | 977                                | 3,324                              | 256                                | 44.4                               | 77.1                               | 5.1                                | 15.7                               | 1.8                                | 3.2                                | 0.3                                | 1.9                                | 0.3                                | 44.5                              | 1.89   | 55.9   | 8.2   |
|         | 71.0   | 72.0 | 6,439                              | 12,345               | 1,206                              | 3,954                              | 306                                | 53.7                               | 95.6                               | 6.4                                | 18.4                               | 1.8                                | 2.7                                | 0.3                                | 1.4                                | 0.2                                | 41.9                              | 2.45   | 69.5   | 7.6   |
|         | 72.0   | 73.0 | 5,512                              | 12,137               | 1,269                              | 4,257                              | 292                                | 45.5                               | 73.5                               | 4.2                                | 12.2                               | 1.3                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 2.36   | 40.8   | 8.2   |
|         | 73.0   | 74.0 | 3,823                              | 7,899                | 806                                | 2,706                              | 192                                | 30.7                               | 54.6                               | 3.9                                | 12.7                               | 1.5                                | 2.4                                | 0.3                                | 1.4                                | 0.2                                | 36.8                              | 1.56   | 42     | 8.3   |
|         | 74.0   | 75.0 | 6,028                              | 12,038               | 1,179                              | 3,837                              | 266                                | 48.2                               | 89.7                               | 6.3                                | 19.2                               | 2.0                                | 3.2                                | 0.3                                | 1.6                                | 0.2                                | 47.0                              | 2.36   | 79.8   | 10.4  |
|         | 75.0   | 76.0 | 5,583                              | 11,080               | 1,125                              | 3,371                              | 237                                | 38.7                               | 65.9                               | 5.0                                | 15.3                               | 1.6                                | 2.5                                | 0.2                                | 0.9                                | 0.1                                | 35.6                              | 2.16   | 49.2   | 9.2   |
|         | 76.0   | 77.0 | 3,319                              | 7,506                | 828                                | 2,659                              | 213                                | 34.9                               | 59.4                               | 4.3                                | 13.5                               | 1.5                                | 2.5                                | 0.2                                | 1.1                                | 0.2                                | 35.6                              | 1.47   | 42     | 15.9  |
|         | 77.0   | 78.0 | 1,507                              | 3,304                | 359                                | 1,306                              | 162                                | 35.8                               | 77.1                               | 7.8                                | 31.1                               | 4.3                                | 8.4                                | 0.9                                | 5.0                                | 0.6                                | 116.8                             | 0.69   | 53.1   | 30.1  |
|         | 78.0   | 79.0 | 1,607                              | 3,820                | 411                                | 1,487                              | 143                                | 31.2                               | 77.1                               | 10.4                               | 54.4                               | 8.6                                | 19.0                               | 2.1                                | 12.3                               | 1.6                                | 268.0                             | 0.80   | 96.7   | 19.2  |
|         | 79.0   | 80.0 | 2,234                              | 5,196                | 579                                | 2,030                              | 194                                | 39.4                               | 85.3                               | 12.6                               | 67.9                               | 11.7                               | 28.1                               | 4.0                                | 26.2                               | 3.7                                | 375.9                             | 1.09   | 104.5  | 18.8  |
|         | 80.0   | 81.0 | 5,043                              | 9,704                | 957                                | 2,799                              | 183                                | 28.8                               | 45.3                               | 3.5                                | 11.6                               | 1.4                                | 2.4                                | 0.2                                | 1.4                                | 0.2                                | 33.0                              | 1.88   | 28.2   | 8.9   |
|         | 81.0   | 82.0 | 8,773                              | 16,952               | 1,752                              | 5,307                              | 356                                | 58.5                               | 98.7                               | 6.4                                | 20.1                               | 2.0                                | 2.6                                | 0.2                                | 0.8                                | 0.2                                | 43.2                              | 3.34   | 60.2   | 8.8   |
|         | 82.0   | 83.0 | 6,521                              | 13,082               | 1,329                              | 4,421                              | 308                                | 52.7                               | 89.3                               | 5.9                                | 17.7                               | 1.9                                | 2.7                                | 0.2                                | 1.3                                | 0.2                                | 43.2                              | 2.59   | 55.5   | 7.7   |
|         | 83.0   | 84.0 | 4,562                              | 9,618                | 997                                | 3,324                              | 239                                | 39.8                               | 71.8                               | 5.3                                | 16.1                               | 1.6                                | 2.7                                | 0.2                                | 1.0                                | 0.2                                | 40.6                              | 1.89   | 55.6   | 7.1   |
|         | 84.0   | 85.0 | 5,911                              | 11,535               | 1,127                              | 3,593                              | 240                                | 38.1                               | 69.0                               | 4.8                                | 15.3                               | 1.6                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 36.8                              | 2.26   | 49.8   | 11    |
|         | 85.0   | 86.0 | 7,635                              | 15,416               | 1,534                              | 4,934                              | 322                                | 51.9                               | 92.4                               | 5.9                                | 17.0                               | 1.7                                | 2.2                                | 0.2                                | 0.7                                | 0.1                                | 35.6                              | 3.00   | 60.1   | 9.9   |
|         | 86.0   | 87.0 | 19,117                             | 37,221               | 3,806                              | 11,781                             | 656                                | 107.3                              | 179.2                              | 11.3                               | 32.9                               | 3.3                                | 4.4                                | 0.4                                | 1.5                                | 0.2                                | 71.1                              | 7.30   | 107    | 6.8   |
|         | 87.0   | 88.0 | 6,615                              | 13,574               | 1,408                              | 4,409                              | 314                                | 51.9                               | 84.5                               | 5.9                                | 17.9                               | 1.8                                | 2.5                                | 0.2                                | 0.9                                | 0.1                                | 39.4                              | 2.65   | 68.2   | 10.9  |
|         | 88.0   | 89.0 | 5,383                              | 11,092               | 1,145                              | 3,511                              | 254                                | 40.2                               | 66.7                               | 5.0                                | 14.9                               | 1.6                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 34.3                              | 2.16   | 55.6   | 14.8  |
|         | 89.0   | 90.0 | 2,639                              | 5,516                | 568                                | 1,843                              | 146                                | 24.7                               | 44.0                               | 3.7                                | 12.9                               | 1.6                                | 2.6                                | 0.3                                | 1.5                                | 0.2                                | 38.1                              | 1.08   | 42.1   | 17.9  |
|         | 90.0   | 91.0 | 3,624                              | 7,432                | 767                                | 2,484                              | 183                                | 28.1                               | 51.4                               | 3.8                                | 12.6                               | 1.4                                | 2.5                                | 0.3                                | 1.5                                | 0.3                                | 33.0                              | 1.46   | 53.4   | 19.2  |
|         | 91.0   | 92.0 | 3,237                              | 6,756                | 708                                | 2,280                              | 168                                | 27.3                               | 49.8                               | 3.8                                | 12.5                               | 1.4                                | 2.4                                | 0.3                                | 1.7                                | 0.2                                | 34.3                              | 1.33   | 51.9   | 19    |
|         | 92.0   | 93.0 | 3,788                              | 7,100                | 733                                | 2,438                              | 225                                | 40.2                               | 83.6                               | 7.7                                | 32.0                               | 4.5                                | 10.9                               | 1.2                                | 8.0                                | 1.1                                | 133.3                             | 1.46   | 75.4   | 14.3  |
|         | 93.0   | 94.0 | 10,989                             | 21,006               | 2,235                              | 6,275                              | 404                                | 62.1                               | 109.7                              | 8.1                                | 23.4                               | 2.3                                | 3.2                                | 0.3                                | 1.5                                | 0.2                                | 50.8                              | 4.12   | 67.9   | 7.2   |
|         | 94.0   | 95.0 | 11,306                             | 21,128               | 2,187                              | 6,054                              | 359                                | 51.1                               | 91.6                               | 7.2                                | 22.3                               | 2.3                                | 3.9                                | 0.3                                | 1.7                                | 0.2                                | 53.3                              | 4.13   | 56.3   | 9.4   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |    |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|----|
|         | 95.0   | 96.0  | 5,829                              | 11,277               | 1,124                              | 3,511                              | 249                                | 38.9                               | 70.8                               | 5.1                                | 16.4                               | 1.7                                | 2.7                                | 0.2                                | 1.4                                | 0.2                                | 38.1                              | 2.22   | 46.8   | 17.6  |    |
|         | 96.0   | 97.0  | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 97.0   | 98.0  | 4,762                              | 10,196               | 1,110                              | 3,744                              | 317                                | 55.0                               | 109.8                              | 9.6                                | 34.0                               | 3.9                                | 7.3                                | 0.7                                | 4.7                                | 0.6                                | 106.7                             | 2.05   | 83.8   | 8.1   |    |
|         | 98.0   | 99.0  | 9,758                              | 18,979               | 1,867                              | 5,739                              | 384                                | 61.3                               | 99.7                               | 7.9                                | 25.0                               | 2.8                                | 4.6                                | 0.4                                | 2.1                                | 0.3                                | 68.6                              | 3.70   | 78     | 10.8  |    |
|         | 99.0   | 100.0 | 9,289                              | 19,163               | 1,951                              | 6,077                              | 407                                | 61.0                               | 92.3                               | 6.1                                | 18.3                               | 1.9                                | 2.7                                | 0.3                                | 1.1                                | 0.2                                | 40.6                              | 3.71   | 61.3   | 7.1   |    |
|         | 100.0  | 101.0 | 7,307                              | 14,864               | 1,522                              | 4,724                              | 334                                | 54.7                               | 89.4                               | 6.5                                | 19.3                               | 2.1                                | 3.3                                | 0.3                                | 1.0                                | 0.2                                | 45.7                              | 2.90   | 73.2   | 9.2   |    |
|         | 101.0  | 102.0 | 12,314                             | 24,568               | 2,489                              | 8,037                              | 597                                | 98.3                               | 158.5                              | 10.6                               | 30.0                               | 2.9                                | 4.0                                | 0.4                                | 1.9                                | 0.2                                | 63.5                              | 4.84   | 117.5  | 7     |    |
|         | 102.0  | 103.0 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 103.0  | 104.0 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 104.0  | 105.0 | 10,250                             | 20,883               | 2,066                              | 6,299                              | 434                                | 76.4                               | 135.4                              | 11.4                               | 39.3                               | 4.9                                | 8.9                                | 1.0                                | 5.7                                | 0.8                                | 143.5                             | 4.04   | 133    | 3.5   |    |
|         | 105.0  | 106.0 | 9,124                              | 19,654               | 2,018                              | 6,404                              | 467                                | 80.1                               | 136.0                              | 10.3                               | 33.3                               | 4.1                                | 7.4                                | 0.8                                | 4.3                                | 0.6                                | 116.8                             | 3.81   | 114    | 3.3   |    |
|         | 106.0  | 107.0 | 5,289                              | 13,881               | 1,637                              | 5,785                              | 524                                | 90.2                               | 146.4                              | 9.1                                | 24.2                               | 2.4                                | 3.7                                | 0.3                                | 1.7                                | 0.2                                | 57.2                              | 2.75   | 122    | 6     |    |
|         | 107.0  | 108.0 | 5,981                              | 13,390               | 1,438                              | 4,701                              | 343                                | 55.9                               | 89.9                               | 6.2                                | 19.1                               | 2.3                                | 3.5                                | 0.4                                | 2.3                                | 0.3                                | 58.4                              | 2.61   | 63.5   | 5.3   |    |
|         | 108.0  | 109.0 | 4,070                              | 10,552               | 1,244                              | 4,292                              | 359                                | 61.5                               | 104.8                              | 7.1                                | 21.7                               | 2.5                                | 4.2                                | 0.5                                | 2.3                                | 0.3                                | 63.5                              | 2.08   | 88.4   | 1.9   |    |
|         | 109.0  | 110.0 | 3,776                              | 8,169                | 867                                | 2,741                              | 220                                | 38.7                               | 71.9                               | 6.2                                | 20.5                               | 2.4                                | 4.2                                | 0.5                                | 2.6                                | 0.4                                | 66.0                              | 1.60   | 71.2   | 5.5   |    |
|         | 110.0  | 111.0 | 5,336                              | 10,749               | 1,084                              | 3,138                              | 208                                | 34.7                               | 60.3                               | 5.1                                | 18.7                               | 2.3                                | 4.1                                | 0.5                                | 2.4                                | 0.3                                | 62.2                              | 2.07   | 43.7   | 3.3   |    |
|         | 111.0  | 112.0 | 7,013                              | 15,294               | 1,607                              | 5,190                              | 354                                | 57.7                               | 98.7                               | 8.2                                | 28.2                               | 3.6                                | 6.4                                | 0.8                                | 4.1                                | 0.6                                | 101.6                             | 2.98   | 74.2   | 2.7   |    |
|         | 112.0  | 113.0 | 8,233                              | 16,768               | 1,691                              | 5,062                              | 318                                | 50.3                               | 83.9                               | 6.7                                | 20.5                               | 2.0                                | 3.1                                | 0.3                                | 1.4                                | 0.2                                | 48.3                              | 3.23   | 75.4   | 2.5   |    |
|         | 113.0  | 114.0 | 10,180                             | 20,576               | 2,030                              | 6,089                              | 355                                | 55.2                               | 87.6                               | 6.9                                | 23.8                               | 2.5                                | 3.8                                | 0.3                                | 1.8                                | 0.2                                | 63.5                              | 3.95   | 64.6   | 2.9   |    |
|         | 114.0  | 115.0 | 8,151                              | 15,969               | 1,547                              | 4,666                              | 276                                | 43.2                               | 69.5                               | 5.0                                | 16.2                               | 1.6                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 38.1                              | 3.08   | 58.1   | 6     |    |
|         | 115.0  | 116.0 | 10,907                             | 20,883               | 2,036                              | 6,100                              | 371                                | 57.8                               | 96.5                               | 8.0                                | 25.7                               | 2.7                                | 3.5                                | 0.3                                | 1.5                                | 0.2                                | 64.8                              | 4.06   | 82.6   | 4     |    |
|         | 116.0  | 117.0 | 7,377                              | 14,249               | 1,414                              | 4,281                              | 269                                | 43.0                               | 67.8                               | 5.0                                | 15.6                               | 1.6                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 38.1                              | 2.78   | 42.3   | 6.7   |    |
|         | 117.0  | 118.0 | 7,682                              | 15,048               | 1,510                              | 4,654                              | 299                                | 45.2                               | 78.6                               | 5.6                                | 15.7                               | 1.5                                | 2.5                                | 0.2                                | 0.9                                | 0.1                                | 35.6                              | 2.94   | 54.8   | 4.7   |    |
|         | 118.0  | 119.0 | 6,744                              | 12,775               | 1,244                              | 3,732                              | 231                                | 34.7                               | 62.7                               | 5.1                                | 16.5                               | 1.6                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 36.8                              | 2.49   | 50.6   | 12.4  |    |
|         | 119.0  | 120.0 | 7,600                              | 15,294               | 1,601                              | 4,747                              | 311                                | 47.9                               | 82.6                               | 6.1                                | 18.0                               | 1.7                                | 2.7                                | 0.2                                | 1.0                                | 0.1                                | 39.4                              | 2.98   | 62.7   | 10.6  |    |
|         | 120.0  | 121.0 | 7,213                              | 13,451               | 1,323                              | 3,954                              | 239                                | 36.8                               | 68.0                               | 5.5                                | 17.7                               | 1.7                                | 2.4                                | 0.2                                | 1.0                                | 0.1                                | 39.4                              | 2.64   | 46.5   | 7.1   |    |
|         | 121.0  | 122.0 | 4,937                              | 9,397                | 930                                | 2,788                              | 170                                | 25.8                               | 48.5                               | 4.1                                | 13.8                               | 1.5                                | 2.2                                | 0.2                                | 0.9                                | 0.2                                | 31.8                              | 1.84   | 38     | 9.2   |    |
|         | 122.0  | 123.0 | 8,972                              | 15,662               | 1,649                              | 4,561                              | 318                                | 47.2                               | 83.8                               | 6.4                                | 20.9                               | 2.3                                | 3.4                                | 0.3                                | 1.1                                | 0.2                                | 49.5                              | 3.14   | 56.6   | 6.1   |    |
|         | 123.0  | 124.0 | 9,054                              | 16,153               | 1,722                              | 4,666                              | 311                                | 46.1                               | 81.4                               | 5.8                                | 19.6                               | 2.0                                | 2.9                                | 0.2                                | 1.0                                | 0.1                                | 44.5                              | 3.21   | 46.7   | 7.2   |    |
|         | 124.0  | 125.0 | 7,623                              | 13,758               | 1,371                              | 4,047                              | 268                                | 40.4                               | 72.0                               | 5.3                                | 17.8                               | 1.9                                | 2.9                                | 0.2                                | 1.0                                | 0.1                                | 40.6                              | 2.73   | 43.7   | 6.7   |    |
|         | 125.0  | 126.0 | 6,884                              | 12,284               | 1,232                              | 3,756                              | 276                                | 40.9                               | 73.4                               | 5.3                                | 16.6                               | 1.9                                | 2.9                                | 0.2                                | 0.9                                | 0.2                                | 39.4                              | 2.46   | 47.4   | 6.9   |    |
|         | 126.0  | 127.0 | 8,913                              | 18,487               | 2,139                              | 6,357                              | 480                                | 71.4                               | 122.2                              | 7.1                                | 19.4                               | 2.0                                | 3.0                                | 0.3                                | 1.3                                | 0.2                                | 40.6                              | 3.66   | 61.4   | 4.3   |    |
|         | 127.0  | 128.0 | 9,031                              | 17,812               | 2,060                              | 5,960                              | 457                                | 69.8                               | 122.8                              | 8.0                                | 24.3                               | 2.4                                | 3.5                                | 0.3                                | 1.4                                | 0.2                                | 53.3                              | 3.56   | 79     | 5     |    |
|         | 128.0  | 129.0 | 10,098                             | 20,453               | 2,344                              | 6,975                              | 555                                | 86.8                               | 150.4                              | 9.1                                | 24.3                               | 2.6                                | 3.4                                | 0.3                                | 1.5                                | 0.2                                | 50.8                              | 4.08   | 86.9   | 1.8   |    |
|         | 129.0  | 129.3 | NS                                 | NS                   | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                 | NS                                | NS     | NS     | NS    | NS |
|         | 129.3  | 130.3 | 3,730                              | 8,587                | 900                                | 2,986                              | 218                                | 34.5                               | 57.8                               | 3.7                                | 12.1                               | 1.3                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 26.7                              | 1.66   | 37.6   | 3.1   |    |
|         | 130.3  | 131.3 | 4,234                              | 9,115                | 936                                | 3,021                              | 221                                | 35.3                               | 60.2                               | 4.7                                | 15.7                               | 1.5                                | 2.4                                | 0.2                                | 1.0                                | 0.1                                | 35.6                              | 1.77   | 48     | 3.1   |    |
|         | 131.3  | 132.3 | 4,363                              | 8,832                | 829                                | 2,543                              | 183                                | 30.5                               | 58.0                               | 5.4                                | 18.6                               | 2.1                                | 2.9                                | 0.2                                | 1.0                                | 0.2                                | 47.0                              | 1.69   | 50.3   | 2.2   |    |
|         | 132.3  | 133.3 | 11,165                             | 22,418               | 2,120                              | 6,135                              | 408                                | 62.6                               | 102.9                              | 7.1                                | 20.9                               | 2.1                                | 3.1                                | 0.2                                | 1.3                                | 0.1                                | 43.2                              | 4.25   | 68.1   | 2.8   |    |
|         | 133.3  | 134.3 | 15,422                             | 30,833               | 3,008                              | 8,701                              | 575                                | 88.8                               | 141.2                              | 9.2                                | 24.0                               | 2.4                                | 3.3                                | 0.3                                | 1.0                                | 0.2                                | 49.5                              | 5.89   | 93.7   | 3.5   |    |
|         | 134.3  | 135.3 | 7,107                              | 14,188               | 1,353                              | 4,094                              | 275                                | 41.7                               | 69.6                               | 4.7                                | 13.5                               | 1.5                                | 2.5                                | 0.2                                | 0.9                                | 0.1                                | 30.5                              | 2.72   | 40.6   | 4.5   |    |
|         | 135.3  | 136.3 | 7,049                              | 14,188               | 1,377                              | 4,246                              | 320                                | 52.0                               | 86.0                               | 6.0                                | 18.0                               | 1.9                                | 3.1                                | 0.3                                | 1.3                                | 0.2                                | 40.6                              | 2.74   | 53.6   | 2     |    |
|         | 136.3  | 137.3 | 7,049                              | 15,294               | 1,516                              | 4,736                              | 336                                | 53.5                               | 86.0                               | 5.3                                | 15.2                               | 1.6                                | 2.6                                | 0.3                                | 1.5                                | 0.2                                | 33.0                              | 2.91   | 43.9   | 1.4   |    |
|         | 137.3  | 138.3 | 11,071                             | 21,743               | 2,030                              | 5,960                              | 397                                | 59.4                               | 95.4                               | 5.9                                | 15.2                               | 1.5                                | 2.4                                | 0.2                                | 1.0                                | 0.2                                | 35.6                              | 4.14   | 46.8   | 1.5   |    |
|         | 138.3  | 139.3 | 7,623                              | 14,557               | 1,335                              | 4,024                              | 304                                | 55.0                               | 102.2                              | 8.5                                | 35.8                               | 5.6                                | 14.0                               | 1.8                                | 9.8                                | 1.2                                | 162.6                             | 2.82   | 54.3   | 4.9   |    |
|         | 139.3  | 140.3 | 17,006                             | 26,902               | 2,803                              | 7,033                              | 446                                | 67.3                               | 108.2                              | 6.8                                | 19.2                               | 1.9                                | 2.7                                | 0.2                                | 0.9                                | 0.1                                | 36.8                              | 5.44   | 50.9   | 1.9   |    |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 140.3  | 141.3 | 12,080                             | 23,401               | 2,175                              | 6,322                              | 413                                | 63.3                               | 104.2                              | 6.4                                | 16.8                               | 1.7                                | 2.9                                | 0.2                                | 1.1                                | 0.2                                | 39.4                              | 4.46   | 50.9   | 2.2   |
|         | 141.3  | 142.3 | 9,629                              | 19,777               | 2,048                              | 6,474                              | 479                                | 78.4                               | 126.2                              | 8.5                                | 23.9                               | 2.5                                | 4.0                                | 0.4                                | 1.8                                | 0.2                                | 52.1                              | 3.87   | 83.6   | 1.8   |
|         | 142.3  | 143.3 | 20,759                             | 37,343               | 3,576                              | 10,451                             | 670                                | 105.5                              | 167.7                              | 10.8                               | 29.6                               | 2.8                                | 4.0                                | 0.3                                | 1.1                                | 0.1                                | 54.6                              | 7.32   | 101.5  | 1.4   |
|         | 143.3  | 144.3 | 15,598                             | 27,148               | 2,513                              | 7,127                              | 453                                | 72.0                               | 115.8                              | 8.4                                | 24.0                               | 2.2                                | 3.4                                | 0.2                                | 0.9                                | 0.1                                | 45.7                              | 5.31   | 79.7   | 1.5   |
|         | 144.3  | 145.3 | 9,887                              | 16,583               | 1,486                              | 4,234                              | 275                                | 46.7                               | 83.9                               | 6.6                                | 20.8                               | 2.0                                | 3.1                                | 0.2                                | 1.3                                | 0.1                                | 41.9                              | 3.27   | 75.1   | 1.7   |
|         | 145.3  | 146.3 | 4,269                              | 7,763                | 736                                | 2,193                              | 148                                | 26.6                               | 53.8                               | 4.3                                | 12.5                               | 1.1                                | 1.6                                | 0.1                                | 0.6                                | -0.1                               | 21.6                              | 1.52   | 92.5   | 2.2   |
|         | 146.3  | 147.3 | 12,842                             | 22,050               | 2,012                              | 5,715                              | 353                                | 56.0                               | 96.9                               | 7.0                                | 21.1                               | 2.0                                | 2.9                                | 0.2                                | 0.9                                | 0.1                                | 41.9                              | 4.32   | 61.5   | 3.3   |
|         | 147.3  | 148.3 | 12,432                             | 20,883               | 1,849                              | 5,144                              | 305                                | 48.4                               | 81.8                               | 6.3                                | 18.7                               | 1.9                                | 2.9                                | 0.2                                | 1.0                                | 0.1                                | 40.6                              | 4.08   | 54     | 3.2   |
|         | 148.3  | 149.3 | 5,712                              | 10,319               | 981                                | 2,939                              | 202                                | 33.6                               | 58.8                               | 4.4                                | 14.4                               | 1.4                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 29.2                              | 2.03   | 46.9   | 4.1   |
|         | 149.3  | 150.2 | 7,682                              | 13,881               | 1,311                              | 3,872                              | 247                                | 38.2                               | 62.5                               | 4.4                                | 13.4                               | 1.3                                | 1.8                                | 0.1                                | 0.7                                | 0.1                                | 26.7                              | 2.71   | 39.9   | 4.8   |
|         | 150.2  | 150.8 | 9,617                              | 16,706               | 1,540                              | 4,467                              | 290                                | 46.6                               | 74.0                               | 5.0                                | 13.9                               | 1.3                                | 2.1                                | 0.1                                | 0.7                                | 0.1                                | 26.7                              | 3.28   | 49.9   | 7.1   |
|         | 150.8  | 151.3 | 15,012                             | 28,622               | 2,827                              | 8,410                              | 536                                | 81.5                               | 125.1                              | 7.9                                | 22.7                               | 2.3                                | 3.7                                | 0.3                                | 1.4                                | 0.2                                | 48.3                              | 5.57   | 54     | 3.7   |
|         | 151.3  | 152.3 | 26,036                             | 42,503               | 3,890                              | 10,778                             | 662                                | 105.3                              | 167.1                              | 11.1                               | 29.2                               | 2.8                                | 4.5                                | 0.3                                | 1.4                                | 0.2                                | 57.2                              | 8.42   | 86.9   | 3.2   |
|         | 152.3  | 153.3 | 24,746                             | 40,414               | 3,649                              | 10,078                             | 593                                | 94.1                               | 154.5                              | 10.5                               | 30.3                               | 3.1                                | 5.0                                | 0.4                                | 1.8                                | 0.3                                | 64.8                              | 7.98   | 85.8   | 4.9   |
|         | 153.3  | 154.3 | 28,264                             | 45,451               | 4,096                              | 11,524                             | 681                                | 107.2                              | 172.3                              | 11.4                               | 31.7                               | 3.1                                | 5.0                                | 0.3                                | 1.5                                | 0.2                                | 63.5                              | 9.04   | 86.2   | 3.4   |
|         | 154.3  | 155.3 | 27,209                             | 47,539               | 4,470                              | 12,830                             | 798                                | 125.6                              | 195.4                              | 12.7                               | 34.2                               | 3.3                                | 5.2                                | 0.4                                | 1.7                                | 0.2                                | 68.6                              | 9.33   | 106.5  | 3.3   |
|         | 155.3  | 156.3 | 26,974                             | 46,434               | 4,350                              | 12,364                             | 757                                | 122.2                              | 197.7                              | 12.9                               | 34.8                               | 3.2                                | 4.9                                | 0.3                                | 1.5                                | 0.2                                | 63.5                              | 9.13   | 109.5  | 2.3   |
|         | 156.3  | 156.7 | 30,024                             | 49,873               | 4,446                              | 12,364                             | 713                                | 112.7                              | 176.4                              | 11.0                               | 27.9                               | 2.6                                | 3.7                                | 0.2                                | 1.0                                | 0.2                                | 47.0                              | 9.78   | 106    | 1.9   |
|         | 156.7  | 157.6 | 20,700                             | 32,798               | 2,863                              | 7,663                              | 442                                | 69.9                               | 113.9                              | 7.6                                | 21.6                               | 2.0                                | 3.3                                | 0.2                                | 0.9                                | 0.1                                | 41.9                              | 6.47   | 54.5   | 1.8   |
|         | 157.6  | 158.6 | 17,006                             | 27,393               | 2,392                              | 6,672                              | 413                                | 69.5                               | 116.4                              | 8.3                                | 22.7                               | 2.3                                | 3.5                                | 0.3                                | 1.3                                | 0.2                                | 48.3                              | 5.41   | 70.9   | 2.2   |
|         | 158.6  | 159.2 | 11,411                             | 19,286               | 1,746                              | 5,004                              | 325                                | 54.0                               | 88.8                               | 6.1                                | 16.9                               | 1.6                                | 2.9                                | 0.2                                | 0.9                                | 0.1                                | 34.3                              | 3.80   | 53.5   | 5.8   |
|         | 159.2  | 159.7 | 15,188                             | 28,499               | 2,791                              | 8,176                              | 492                                | 76.3                               | 120.5                              | 8.3                                | 22.3                               | 2.0                                | 3.2                                | 0.2                                | 1.0                                | 0.2                                | 40.6                              | 5.54   | 79.4   | 3.4   |
|         | 159.7  | 160.6 | 10,168                             | 19,593               | 1,903                              | 5,739                              | 368                                | 56.0                               | 86.9                               | 5.6                                | 14.5                               | 1.4                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 27.9                              | 3.80   | 46.7   | 5     |
|         | 160.6  | 161.3 | 23,691                             | 42,625               | 4,072                              | 11,722                             | 712                                | 112.6                              | 178.1                              | 11.3                               | 28.7                               | 2.7                                | 3.8                                | 0.2                                | 1.0                                | 0.1                                | 49.5                              | 8.32   | 105    | 1.5   |
|         | 161.3  | 162.3 | 8,796                              | 16,522               | 1,577                              | 4,689                              | 296                                | 47.9                               | 77.6                               | 5.2                                | 14.6                               | 1.5                                | 2.1                                | 0.2                                | 0.7                                | 0.1                                | 29.2                              | 3.21   | 52     | 5.7   |
|         | 162.3  | 163.3 | 9,758                              | 17,935               | 1,698                              | 4,969                              | 305                                | 49.1                               | 78.7                               | 5.3                                | 15.4                               | 1.4                                | 2.4                                | 0.2                                | 0.8                                | 0.1                                | 30.5                              | 3.48   | 50.2   | 5     |
|         | 163.3  | 164.3 | 7,436                              | 13,942               | 1,317                              | 3,942                              | 253                                | 40.3                               | 64.1                               | 4.1                                | 11.4                               | 1.2                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.70   | 32.8   | 3.9   |
|         | 164.3  | 164.8 | 8,550                              | 16,276               | 1,577                              | 4,759                              | 303                                | 47.4                               | 73.5                               | 4.9                                | 14.1                               | 1.3                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 26.7                              | 3.16   | 34.1   | 6.2   |
|         | 164.8  | 165.5 | 9,265                              | 16,768               | 1,571                              | 4,584                              | 274                                | 41.7                               | 63.6                               | 4.3                                | 11.9                               | 1.2                                | 1.9                                | 0.2                                | 0.7                                | 0.1                                | 24.1                              | 3.26   | 26.3   | 1.1   |
|         | 165.5  | 166.1 | 7,377                              | 13,697               | 1,317                              | 3,989                              | 269                                | 42.5                               | 69.2                               | 4.7                                | 13.9                               | 1.4                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 27.9                              | 2.68   | 34.7   | 2.6   |
|         | 166.1  | 166.7 | 11,435                             | 25,428               | 2,876                              | 9,215                              | 648                                | 95.1                               | 154.5                              | 10.1                               | 28.0                               | 2.7                                | 4.0                                | 0.3                                | 1.5                                | 0.2                                | 55.9                              | 5.00   | 111.5  | 2     |
|         | 166.7  | 167.7 | 4,445                              | 8,157                | 808                                | 2,391                              | 153                                | 23.6                               | 38.2                               | 2.6                                | 8.6                                | 1.0                                | 1.7                                | 0.2                                | 1.0                                | 0.1                                | 22.9                              | 1.61   | 24.6   | 6.8   |
|         | 167.7  | 168.7 | 8,069                              | 15,478               | 1,631                              | 5,202                              | 395                                | 60.2                               | 97.1                               | 5.9                                | 14.5                               | 1.4                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 30.5                              | 3.10   | 62.2   | 5.1   |
|         | 168.7  | 169.7 | 5,770                              | 10,957               | 1,097                              | 3,313                              | 210                                | 31.3                               | 49.7                               | 3.6                                | 10.2                               | 1.1                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 2.15   | 33.7   | 5.1   |
|         | 169.7  | 170.7 | 10,133                             | 18,979               | 1,921                              | 5,739                              | 371                                | 55.6                               | 89.2                               | 6.2                                | 18.1                               | 1.8                                | 2.6                                | 0.3                                | 1.0                                | 0.2                                | 40.6                              | 3.74   | 50.2   | 2     |
|         | 170.7  | 171.7 | 5,454                              | 9,987                | 987                                | 2,939                              | 192                                | 28.7                               | 45.9                               | 3.0                                | 9.1                                | 0.9                                | 1.5                                | 0.2                                | 0.9                                | 0.1                                | 20.3                              | 1.97   | 25.2   | 3.4   |
|         | 171.7  | 172.7 | 7,623                              | 13,942               | 1,359                              | 4,024                              | 267                                | 40.9                               | 66.6                               | 4.4                                | 12.5                               | 1.3                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 29.2                              | 2.74   | 38     | 1.4   |
|         | 172.7  | 173.7 | 4,586                              | 8,525                | 870                                | 2,718                              | 204                                | 32.9                               | 56.0                               | 4.1                                | 11.7                               | 1.4                                | 2.2                                | 0.3                                | 1.0                                | 0.2                                | 30.5                              | 1.70   | 35.5   | 1.6   |
|         | 173.7  | 174.7 | 9,382                              | 17,013               | 1,698                              | 5,214                              | 405                                | 69.1                               | 121.0                              | 8.5                                | 25.1                               | 2.4                                | 3.3                                | 0.3                                | 1.0                                | 0.2                                | 54.6                              | 3.40   | 79.5   | 0.8   |
|         | 174.7  | 175.7 | 5,817                              | 10,859               | 1,089                              | 3,324                              | 231                                | 37.9                               | 63.3                               | 4.4                                | 13.4                               | 1.3                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 29.2                              | 2.15   | 42.4   | 4     |
|         | 175.7  | 176.7 | 7,037                              | 12,591               | 1,238                              | 3,721                              | 260                                | 43.7                               | 75.7                               | 5.9                                | 18.5                               | 1.9                                | 3.1                                | 0.2                                | 1.4                                | 0.1                                | 45.7                              | 2.50   | 65     | 3.2   |
|         | 176.7  | 177.7 | 12,256                             | 22,050               | 2,175                              | 6,439                              | 427                                | 65.4                               | 105.7                              | 7.3                                | 19.7                               | 2.0                                | 3.1                                | 0.3                                | 1.1                                | 0.2                                | 45.7                              | 4.36   | 63.2   | 4.6   |
|         | 177.7  | 178.7 | 4,105                              | 7,727                | 767                                | 2,333                              | 154                                | 24.3                               | 40.5                               | 3.1                                | 9.1                                | 0.9                                | 1.4                                | 0.1                                | 0.6                                | 0.1                                | 19.1                              | 1.52   | 28.2   | 2     |
|         | 178.7  | 179.7 | 5,020                              | 8,967                | 892                                | 2,694                              | 183                                | 28.7                               | 45.9                               | 3.1                                | 8.4                                | 0.8                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.79   | 28.1   | 11.2  |
|         | 179.7  | 180.7 | 4,937                              | 9,483                | 967                                | 2,963                              | 198                                | 30.5                               | 47.8                               | 3.1                                | 8.5                                | 0.9                                | 1.5                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.87   | 27.5   | 10.8  |
|         | 180.7  | 181.7 | 3,917                              | 7,321                | 729                                | 2,193                              | 147                                | 24.7                               | 42.9                               | 3.5                                | 10.0                               | 1.0                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 1.44   | 32.8   | 2.8   |



| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 181.7  | 182.7 | 6,263                              | 11,891               | 1,192                              | 3,628                              | 238                                | 36.8                               | 63.1                               | 4.6                                | 13.2                               | 1.3                                | 1.9                                | 0.2                                | 0.7                                | 0.1                                | 29.2                              | 2.34   | 43.6   | 3.7   |
|         | 182.7  | 183.7 | 3,073                              | 5,921                | 599                                | 1,831                              | 121                                | 19.0                               | 30.4                               | 2.3                                | 6.8                                | 0.7                                | 1.3                                | 0.1                                | 0.7                                | 0.1                                | 16.5                              | 1.16   | 18.9   | 7.8   |
|         | 183.7  | 184.5 | 3,905                              | 7,248                | 721                                | 2,181                              | 145                                | 21.5                               | 34.7                               | 2.4                                | 7.5                                | 0.8                                | 1.4                                | 0.1                                | 0.7                                | 0.1                                | 19.1                              | 1.43   | 19.8   | 3.6   |
|         | 184.5  | 185.5 | 3,483                              | 6,535                | 667                                | 2,012                              | 132                                | 20.7                               | 33.5                               | 2.5                                | 7.2                                | 0.8                                | 1.4                                | 0.2                                | 0.9                                | 0.1                                | 19.1                              | 1.29   | 21.3   | 6.6   |
|         | 185.5  | 186.5 | 4,117                              | 7,763                | 782                                | 2,403                              | 160                                | 25.0                               | 42.1                               | 3.3                                | 9.8                                | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.2                                | 26.7                              | 1.53   | 27.9   | 7.4   |
|         | 186.5  | 187.5 | 8,163                              | 14,434               | 1,389                              | 4,036                              | 247                                | 37.9                               | 61.2                               | 4.3                                | 12.4                               | 1.4                                | 2.4                                | 0.2                                | 1.1                                | 0.1                                | 30.5                              | 2.84   | 29.9   | 4.8   |
|         | 187.5  | 188.2 | 6,966                              | 12,714               | 1,244                              | 3,628                              | 223                                | 33.7                               | 53.6                               | 3.4                                | 10.6                               | 1.1                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 2.49   | 26.4   | 4.4   |
|         | 188.2  | 189.2 | 8,491                              | 16,399               | 1,704                              | 5,237                              | 351                                | 57.0                               | 93.4                               | 6.9                                | 21.2                               | 2.5                                | 4.5                                | 0.4                                | 2.2                                | 0.3                                | 59.7                              | 3.24   | 66.7   | 3.5   |
|         | 189.2  | 190.2 | 6,814                              | 11,989               | 1,172                              | 3,453                              | 208                                | 31.6                               | 53.4                               | 4.0                                | 12.6                               | 1.3                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 31.8                              | 2.38   | 36.3   | 3.8   |
|         | 190.2  | 190.8 | 4,738                              | 8,107                | 766                                | 2,205                              | 139                                | 22.2                               | 40.6                               | 3.6                                | 12.3                               | 1.3                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 31.8                              | 1.61   | 30     | 3.3   |
|         | 190.8  | 191.3 | 8,444                              | 14,065               | 1,329                              | 3,826                              | 253                                | 41.5                               | 72.4                               | 5.8                                | 19.6                               | 2.2                                | 3.8                                | 0.3                                | 1.7                                | 0.2                                | 55.9                              | 2.81   | 42.9   | 4.6   |
|         | 191.3  | 192.2 | 2,557                              | 5,245                | 565                                | 1,866                              | 165                                | 32.7                               | 69.5                               | 7.1                                | 33.4                               | 5.3                                | 12.4                               | 1.3                                | 7.2                                | 0.8                                | 154.9                             | 1.07   | 41.2   | 21    |
|         | 192.2  | 192.8 | 2,991                              | 7,604                | 916                                | 3,208                              | 270                                | 44.7                               | 80.2                               | 6.7                                | 28.7                               | 4.0                                | 9.3                                | 1.0                                | 5.7                                | 0.7                                | 121.9                             | 1.53   | 73.5   | 16.5  |
|         | 192.8  | 193.3 | 5,805                              | 15,539               | 1,921                              | 6,753                              | 538                                | 83.1                               | 130.8                              | 7.8                                | 20.5                               | 2.1                                | 3.4                                | 0.4                                | 1.6                                | 0.3                                | 47.0                              | 3.09   | 63.8   | 4.3   |
|         | 193.3  | 194.2 | 2,568                              | 6,486                | 774                                | 2,718                              | 237                                | 37.9                               | 63.1                               | 3.7                                | 11.1                               | 1.2                                | 2.3                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 1.29   | 40.6   | 3.4   |
|         | 194.2  | 195.2 | 3,049                              | 7,874                | 948                                | 3,324                              | 281                                | 44.1                               | 72.6                               | 4.6                                | 14.7                               | 1.5                                | 3.1                                | 0.3                                | 1.9                                | 0.3                                | 43.2                              | 1.57   | 44.7   | 5.3   |
|         | 195.2  | 196.2 | 1,777                              | 3,943                | 426                                | 1,458                              | 150                                | 30.6                               | 65.6                               | 6.5                                | 27.8                               | 3.5                                | 8.8                                | 0.9                                | 5.0                                | 0.7                                | 99.1                              | 0.80   | 48.3   | 33.1  |
|         | 196.2  | 197.1 | 2,164                              | 5,380                | 640                                | 2,309                              | 233                                | 41.0                               | 72.5                               | 5.1                                | 15.7                               | 1.6                                | 3.7                                | 0.3                                | 1.8                                | 0.2                                | 40.6                              | 1.09   | 47.7   | 17    |
|         | 197.1  | 198.1 | 4,492                              | 6,904                | 617                                | 1,814                              | 147                                | 28.0                               | 61.0                               | 5.2                                | 20.5                               | 2.6                                | 5.8                                | 0.6                                | 3.0                                | 0.3                                | 67.3                              | 1.42   | 25.9   | 15.2  |
|         | 198.1  | 199.1 | 13,956                             | 20,760               | 1,855                              | 5,027                              | 340                                | 54.9                               | 98.8                               | 7.1                                | 23.8                               | 2.9                                | 6.9                                | 0.7                                | 4.2                                | 0.5                                | 74.9                              | 4.22   | 59.3   | 7.5   |
|         | 199.1  | 199.3 | 10,297                             | 15,724               | 1,402                              | 3,802                              | 234                                | 38.8                               | 69.9                               | 5.0                                | 15.2                               | 1.6                                | 2.4                                | 0.2                                | 1.1                                | 0.1                                | 33.0                              | 3.16   | 44.3   | 6.6   |
|         | 199.3  | 200.2 | 7,553                              | 12,149               | 1,138                              | 3,359                              | 246                                | 43.5                               | 84.1                               | 6.8                                | 23.0                               | 2.3                                | 4.7                                | 0.4                                | 2.2                                | 0.3                                | 57.2                              | 2.47   | 51.4   | 6.6   |
|         | 200.2  | 201.2 | 2,011                              | 4,041                | 418                                | 1,406                              | 161                                | 35.8                               | 92.0                               | 12.4                               | 68.4                               | 10.5                               | 27.6                               | 2.9                                | 16.9                               | 2.4                                | 322.6                             | 0.86   | 71.7   | 15.8  |
|         | 201.2  | 202.2 | 1,296                              | 2,715                | 288                                | 973                                | 119                                | 27.1                               | 68.4                               | 7.3                                | 31.7                               | 4.6                                | 11.2                               | 1.1                                | 6.8                                | 0.9                                | 119.4                             | 0.57   | 30     | 12.6  |
|         | 202.2  | 203.2 | 7,224                              | 11,436               | 1,043                              | 2,998                              | 232                                | 43.9                               | 94.2                               | 8.7                                | 34.4                               | 4.2                                | 9.3                                | 0.9                                | 4.6                                | 0.7                                | 111.8                             | 2.32   | 52.1   | 10.8  |
|         | 203.2  | 203.9 | 819                                | 1,658                | 189                                | 687                                | 97                                 | 24.2                               | 65.4                               | 7.5                                | 36.5                               | 5.7                                | 13.7                               | 1.5                                | 9.8                                | 1.6                                | 153.7                             | 0.38   | 29.1   | 15.6  |
|         | 203.9  | 204.9 | 3,507                              | 5,958                | 576                                | 1,831                              | 173                                | 35.6                               | 84.8                               | 10.4                               | 53.4                               | 7.5                                | 19.4                               | 2.2                                | 15.4                               | 2.2                                | 233.7                             | 1.25   | 60.7   | 17.4  |
|         | 204.9  | 205.3 | 4,621                              | 7,763                | 731                                | 2,123                              | 139                                | 22.0                               | 38.8                               | 2.9                                | 9.0                                | 1.0                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 26.7                              | 1.55   | 19.9   | 9.6   |
|         | 205.3  | 206.2 | 8,984                              | 15,355               | 1,450                              | 4,164                              | 255                                | 38.0                               | 61.1                               | 3.7                                | 10.4                               | 0.9                                | 1.7                                | 0.1                                | 0.5                                | 0.1                                | 19.1                              | 3.03   | 27.5   | 7.9   |
|         | 206.2  | 207.2 | 7,999                              | 13,758               | 1,329                              | 3,884                              | 252                                | 38.7                               | 64.0                               | 4.2                                | 13.8                               | 1.6                                | 3.5                                | 0.3                                | 2.1                                | 0.3                                | 40.6                              | 2.74   | 27.8   | 9.8   |
|         | 207.2  | 208.2 | 8,902                              | 15,355               | 1,480                              | 4,339                              | 277                                | 40.3                               | 67.3                               | 4.1                                | 11.7                               | 1.1                                | 2.2                                | 0.2                                | 0.9                                | 0.2                                | 24.1                              | 3.05   | 30.9   | 7.6   |
|         | 208.2  | 209.2 | 8,902                              | 16,583               | 1,649                              | 4,922                              | 300                                | 43.0                               | 66.5                               | 3.9                                | 11.0                               | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 3.25   | 24.8   | 5.3   |
|         | 209.2  | 210.2 | 6,228                              | 11,117               | 1,090                              | 3,231                              | 201                                | 30.0                               | 47.7                               | 3.2                                | 9.6                                | 0.9                                | 1.7                                | 0.1                                | 0.8                                | 0.1                                | 22.9                              | 2.20   | 21.9   | 7.7   |
|         | 210.2  | 210.7 | 4,128                              | 7,272                | 694                                | 2,012                              | 133                                | 22.2                               | 39.1                               | 2.8                                | 9.1                                | 1.0                                | 1.8                                | 0.1                                | 0.8                                | 0.1                                | 21.6                              | 1.43   | 25.3   | 9.5   |
|         | 210.7  | 211.7 | 9,066                              | 16,092               | 1,559                              | 4,596                              | 300                                | 48.1                               | 80.3                               | 5.5                                | 16.2                               | 1.6                                | 3.1                                | 0.3                                | 1.3                                | 0.1                                | 36.8                              | 3.18   | 45.1   | 7.4   |
|         | 211.7  | 212.7 | 7,166                              | 12,714               | 1,257                              | 3,709                              | 254                                | 39.7                               | 68.6                               | 4.6                                | 13.8                               | 1.3                                | 2.5                                | 0.2                                | 1.0                                | 0.1                                | 29.2                              | 2.53   | 45.7   | 6.8   |
|         | 212.7  | 213.7 | 9,957                              | 16,952               | 1,649                              | 4,747                              | 296                                | 44.6                               | 76.5                               | 5.0                                | 14.2                               | 1.3                                | 2.3                                | 0.2                                | 0.8                                | 0.1                                | 29.2                              | 3.38   | 48.2   | 2.1   |
|         | 213.7  | 214.7 | 5,946                              | 10,577               | 1,068                              | 3,394                              | 289                                | 49.8                               | 87.9                               | 5.8                                | 16.5                               | 1.5                                | 2.2                                | 0.2                                | 0.7                                | 0.1                                | 33.0                              | 2.15   | 90.8   | 2.4   |
|         | 214.7  | 215.7 | 10,637                             | 18,057               | 1,698                              | 4,934                              | 348                                | 55.9                               | 103.7                              | 7.1                                | 20.4                               | 1.8                                | 2.9                                | 0.2                                | 0.7                                | 0.1                                | 36.8                              | 3.59   | 76.6   | 6.3   |
|         | 215.7  | 216.7 | 13,722                             | 22,234               | 2,120                              | 5,657                              | 365                                | 56.6                               | 100.2                              | 6.9                                | 21.2                               | 1.7                                | 2.5                                | 0.2                                | 0.9                                | 0.1                                | 36.8                              | 4.43   | 73.7   | 3.6   |
|         | 216.7  | 217.7 | 13,429                             | 21,497               | 2,096                              | 5,529                              | 378                                | 62.5                               | 117.0                              | 8.7                                | 26.6                               | 2.5                                | 3.8                                | 0.3                                | 1.5                                | 0.2                                | 57.2                              | 4.32   | 96.4   | 3.3   |
|         | 217.7  | 218.7 | 6,204                              | 11,658               | 1,171                              | 3,604                              | 252                                | 39.7                               | 69.9                               | 4.6                                | 13.4                               | 1.2                                | 2.1                                | 0.2                                | 0.6                                | 0.1                                | 26.7                              | 2.30   | 54.1   | 1.6   |
|         | 218.7  | 219.7 | 7,189                              | 12,591               | 1,202                              | 3,476                              | 219                                | 35.0                               | 60.6                               | 4.2                                | 12.4                               | 1.1                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 2.48   | 43.3   | 8.9   |
|         | 219.7  | 220.6 | 5,008                              | 8,660                | 846                                | 2,496                              | 168                                | 27.1                               | 52.8                               | 4.2                                | 14.5                               | 1.4                                | 2.3                                | 0.3                                | 1.4                                | 0.2                                | 35.6                              | 1.73   | 66.2   | 10.7  |
|         | 220.6  | 221.1 | 6,263                              | 11,203               | 1,097                              | 3,278                              | 221                                | 40.4                               | 80.3                               | 7.8                                | 24.1                               | 2.4                                | 4.8                                | 0.4                                | 2.5                                | 0.3                                | 62.2                              | 2.23   | 124    | 9.4   |
|         | 221.1  | 222.1 | 10,250                             | 17,443               | 1,673                              | 4,852                              | 329                                | 58.9                               | 110.1                              | 10.1                               | 30.9                               | 2.9                                | 4.9                                | 0.4                                | 2.2                                | 0.3                                | 71.1                              | 3.48   | 135.5  | 7.4   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 222.1  | 223.1 | 7,600                              | 13,758               | 1,359                              | 4,036                              | 250                                | 38.9                               | 65.9                               | 5.1                                | 14.9                               | 1.6                                | 3.0                                | 0.3                                | 1.4                                | 0.2                                | 39.4                              | 2.72   | 47.7   | 6.6   |
|         | 223.1  | 224.1 | 14,074                             | 24,937               | 2,416                              | 6,998                              | 398                                | 59.6                               | 93.8                               | 7.0                                | 18.6                               | 1.9                                | 3.3                                | 0.2                                | 1.1                                | 0.2                                | 43.2                              | 4.91   | 63.3   | 3.8   |
|         | 224.1  | 225.1 | 8,679                              | 14,741               | 1,389                              | 3,966                              | 231                                | 37.8                               | 64.7                               | 5.7                                | 17.3                               | 2.0                                | 3.4                                | 0.3                                | 1.4                                | 0.2                                | 45.7                              | 2.92   | 46.8   | 2.9   |
|         | 225.1  | 226.1 | 6,708                              | 12,210               | 1,226                              | 3,639                              | 227                                | 35.4                               | 56.6                               | 4.5                                | 13.5                               | 1.5                                | 2.6                                | 0.2                                | 1.1                                | 0.1                                | 34.3                              | 2.42   | 32.5   | 3.1   |
|         | 226.1  | 226.7 | 4,222                              | 8,255                | 842                                | 2,601                              | 154                                | 22.4                               | 33.8                               | 2.3                                | 6.3                                | 0.8                                | 1.7                                | 0.2                                | 1.1                                | 0.2                                | 19.1                              | 1.62   | 25.5   | 12.3  |
|         | 226.7  | 227.2 | 5,712                              | 11,154               | 1,150                              | 3,511                              | 213                                | 32.1                               | 49.0                               | 3.6                                | 9.4                                | 1.1                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 2.19   | 25.6   | 6.6   |
|         | 227.2  | 228.2 | 5,841                              | 10,773               | 1,081                              | 3,231                              | 197                                | 30.6                               | 48.4                               | 3.5                                | 10.1                               | 1.2                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 27.9                              | 2.12   | 24.9   | 4.6   |
|         | 228.2  | 229.2 | 4,914                              | 10,331               | 1,143                              | 3,756                              | 276                                | 41.6                               | 70.0                               | 4.4                                | 12.9                               | 1.4                                | 2.3                                | 0.2                                | 1.1                                | 0.1                                | 29.2                              | 2.06   | 40.5   | 6.8   |
|         | 229.2  | 229.5 | 3,882                              | 7,678                | 795                                | 2,519                              | 173                                | 26.4                               | 47.6                               | 3.2                                | 10.8                               | 1.2                                | 2.5                                | 0.3                                | 1.4                                | 0.2                                | 30.5                              | 1.52   | 30.6   | 4.4   |
|         | 229.5  | 230.2 | 3,741                              | 6,867                | 691                                | 2,105                              | 147                                | 23.7                               | 42.5                               | 3.3                                | 10.8                               | 1.3                                | 2.2                                | 0.2                                | 1.0                                | 0.2                                | 30.5                              | 1.37   | 27.8   | 8.6   |
|         | 230.2  | 231.1 | 7,201                              | 13,574               | 1,377                              | 3,942                              | 224                                | 31.4                               | 50.5                               | 3.1                                | 9.6                                | 1.1                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 2.64   | 24.8   | 6.5   |
|         | 231.1  | 232.1 | 4,937                              | 8,660                | 820                                | 2,356                              | 134                                | 20.6                               | 32.7                               | 2.6                                | 8.6                                | 1.0                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 25.4                              | 1.70   | 20.8   | 4.4   |
|         | 232.1  | 232.7 | 3,859                              | 6,314                | 578                                | 1,650                              | 109                                | 19.6                               | 37.1                               | 3.6                                | 12.6                               | 1.4                                | 2.5                                | 0.2                                | 1.3                                | 0.2                                | 34.3                              | 1.26   | 33.7   | 1     |
|         | 232.7  | 233.2 | 2,076                              | 3,697                | 359                                | 1,059                              | 69                                 | 12.4                               | 22.9                               | 2.1                                | 7.4                                | 0.8                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 19.1                              | 0.73   | 23.9   | 2.9   |
|         | 233.2  | 233.8 | 3,694                              | 6,965                | 700                                | 2,146                              | 142                                | 23.2                               | 38.2                               | 2.8                                | 9.0                                | 1.0                                | 2.2                                | 0.2                                | 1.4                                | 0.2                                | 25.4                              | 1.38   | 18.8   | 8.7   |
|         | 233.8  | 234.3 | 1,900                              | 3,980                | 434                                | 1,411                              | 109                                | 18.2                               | 32.2                               | 2.4                                | 8.0                                | 1.0                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 24.1                              | 0.79   | 12.2   | 6.9   |
|         | 234.3  | 235.3 | 2,545                              | 5,737                | 668                                | 2,280                              | 182                                | 30.5                               | 49.0                               | 3.5                                | 10.2                               | 1.1                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 24.1                              | 1.15   | 33.2   | 3     |
|         | 235.3  | 236.3 | 3,859                              | 7,751                | 826                                | 2,671                              | 202                                | 35.0                               | 59.7                               | 4.6                                | 13.7                               | 1.5                                | 2.7                                | 0.2                                | 1.3                                | 0.1                                | 33.0                              | 1.55   | 44.4   | 5.4   |
|         | 236.3  | 237.3 | 3,213                              | 6,228                | 649                                | 2,012                              | 138                                | 23.4                               | 40.0                               | 3.2                                | 9.8                                | 1.1                                | 2.1                                | 0.2                                | 1.1                                | 0.2                                | 27.9                              | 1.23   | 30.3   | 11.5  |
|         | 237.3  | 238.1 | 3,518                              | 6,400                | 644                                | 1,965                              | 139                                | 23.2                               | 40.9                               | 3.0                                | 9.6                                | 1.1                                | 2.5                                | 0.2                                | 1.4                                | 0.2                                | 27.9                              | 1.28   | 28.3   | 13.5  |
|         | 238.1  | 238.4 | 23,163                             | 34,395               | 2,984                              | 7,757                              | 415                                | 67.9                               | 115.8                              | 9.4                                | 28.6                               | 3.0                                | 5.0                                | 0.3                                | 1.4                                | 0.2                                | 68.6                              | 6.90   | 71.1   | 2     |
|         | 238.4  | 239.2 | 6,990                              | 11,215               | 1,026                              | 2,881                              | 184                                | 31.4                               | 55.1                               | 4.8                                | 16.9                               | 1.9                                | 3.7                                | 0.3                                | 1.4                                | 0.2                                | 48.3                              | 2.25   | 40.6   | 2.2   |
|         | 239.2  | 240.1 | 4,070                              | 7,370                | 718                                | 2,135                              | 130                                | 20.2                               | 32.9                               | 2.3                                | 7.1                                | 0.8                                | 1.6                                | 0.1                                | 0.9                                | 0.1                                | 20.3                              | 1.45   | 19.1   | 6.4   |
|         | 240.1  | 240.5 | 7,764                              | 13,697               | 1,335                              | 4,036                              | 302                                | 54.0                               | 96.1                               | 7.1                                | 18.9                               | 1.8                                | 2.6                                | 0.2                                | 1.0                                | 0.1                                | 39.4                              | 2.74   | 68.3   | 2.8   |
|         | 240.5  | 241.4 | 8,397                              | 14,986               | 1,474                              | 4,397                              | 324                                | 58.6                               | 103.2                              | 8.0                                | 22.3                               | 2.3                                | 3.3                                | 0.3                                | 1.0                                | 0.1                                | 49.5                              | 2.98   | 78.9   | 5.7   |
|         | 241.4  | 242.0 | 4,445                              | 8,451                | 860                                | 2,636                              | 184                                | 30.5                               | 48.5                               | 3.5                                | 10.4                               | 1.1                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 1.67   | 30.4   | 7     |
|         | 242.0  | 242.5 | 4,210                              | 8,279                | 853                                | 2,613                              | 173                                | 28.0                               | 45.8                               | 3.3                                | 9.6                                | 1.0                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 22.9                              | 1.62   | 26.6   | 7.9   |
|         | 242.5  | 243.4 | 4,996                              | 8,673                | 835                                | 2,449                              | 162                                | 27.8                               | 49.1                               | 4.6                                | 15.2                               | 1.6                                | 2.5                                | 0.2                                | 0.9                                | 0.1                                | 36.8                              | 1.73   | 44.2   | 4.3   |
|         | 243.4  | 244.4 | 22,225                             | 34,764               | 3,129                              | 8,783                              | 479                                | 70.3                               | 124.5                              | 8.8                                | 24.5                               | 2.5                                | 3.9                                | 0.3                                | 1.4                                | 0.2                                | 50.8                              | 6.97   | 68.1   | 2.5   |
|         | 244.4  | 245.4 | 7,166                              | 13,021               | 1,269                              | 3,919                              | 240                                | 35.0                               | 59.6                               | 4.1                                | 12.2                               | 1.4                                | 2.5                                | 0.2                                | 1.0                                | 0.1                                | 30.5                              | 2.58   | 32.7   | 8     |
|         | 245.4  | 246.4 | 12,784                             | 21,866               | 2,193                              | 7,022                              | 517                                | 84.1                               | 144.1                              | 9.6                                | 27.4                               | 2.7                                | 4.0                                | 0.3                                | 1.4                                | 0.2                                | 57.2                              | 4.47   | 105    | 2.8   |
|         | 246.4  | 247.4 | 8,749                              | 14,065               | 1,263                              | 3,639                              | 199                                | 29.4                               | 52.0                               | 4.2                                | 13.5                               | 1.5                                | 2.6                                | 0.2                                | 0.9                                | 0.1                                | 35.6                              | 2.81   | 33.9   | 2.3   |
|         | 247.4  | 248.4 | 18,296                             | 25,674               | 2,151                              | 5,692                              | 313                                | 50.7                               | 93.8                               | 7.5                                | 23.1                               | 2.5                                | 3.9                                | 0.3                                | 1.5                                | 0.2                                | 57.2                              | 5.24   | 61.3   | 1.8   |
|         | 248.4  | 249.4 | 10,649                             | 17,689               | 1,649                              | 4,911                              | 293                                | 42.8                               | 73.8                               | 5.6                                | 16.9                               | 1.8                                | 3.0                                | 0.3                                | 1.1                                | 0.2                                | 41.9                              | 3.54   | 49.7   | 2.7   |
|         | 249.4  | 250.4 | 5,137                              | 9,066                | 867                                | 2,671                              | 166                                | 26.3                               | 45.5                               | 3.6                                | 11.7                               | 1.3                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 27.9                              | 1.80   | 33     | 5.5   |
|         | 250.4  | 251.4 | 4,773                              | 8,230                | 789                                | 2,473                              | 173                                | 28.5                               | 52.7                               | 4.3                                | 14.2                               | 1.5                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 31.8                              | 1.66   | 47.9   | 3     |
|         | 251.4  | 252.1 | 15,305                             | 24,384               | 2,241                              | 6,567                              | 420                                | 69.1                               | 123.3                              | 9.5                                | 28.8                               | 2.8                                | 4.0                                | 0.3                                | 1.1                                | 0.2                                | 63.5                              | 4.92   | 97.9   | 1.7   |
|         | 252.1  | 253.1 | 10,239                             | 17,812               | 1,716                              | 5,202                              | 339                                | 54.0                               | 95.7                               | 7.0                                | 20.7                               | 2.0                                | 2.9                                | 0.2                                | 1.0                                | 0.2                                | 41.9                              | 3.55   | 69.9   | 4     |
|         | 253.1  | 253.6 | 6,849                              | 12,468               | 1,195                              | 3,593                              | 198                                | 28.6                               | 46.0                               | 3.2                                | 9.0                                | 1.0                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 21.6                              | 2.44   | 21.1   | 6.1   |
|         | 253.6  | 254.2 | 5,348                              | 9,668                | 921                                | 2,776                              | 158                                | 23.3                               | 39.9                               | 2.9                                | 9.4                                | 1.0                                | 1.8                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 1.90   | 22.1   | 5.6   |
|         | 254.2  | 255.2 | 5,078                              | 8,771                | 826                                | 2,543                              | 167                                | 28.1                               | 54.5                               | 5.1                                | 17.5                               | 1.9                                | 2.7                                | 0.3                                | 1.1                                | 0.1                                | 44.5                              | 1.75   | 56.1   | 2.3   |
|         | 255.2  | 256.2 | 9,863                              | 17,443               | 1,673                              | 5,074                              | 299                                | 43.7                               | 74.0                               | 5.6                                | 17.0                               | 1.9                                | 3.0                                | 0.3                                | 1.1                                | 0.2                                | 39.4                              | 3.45   | 43.2   | 3.4   |
|         | 256.2  | 257.2 | 15,891                             | 28,499               | 2,779                              | 8,363                              | 470                                | 64.8                               | 101.3                              | 6.5                                | 16.5                               | 1.7                                | 2.5                                | 0.3                                | 1.1                                | 0.2                                | 34.3                              | 5.62   | 45.8   | 1.6   |
|         | 257.2  | 258.2 | 11,400                             | 20,760               | 2,078                              | 6,345                              | 368                                | 51.6                               | 80.2                               | 4.9                                | 13.3                               | 1.3                                | 2.1                                | 0.2                                | 1.0                                | 0.1                                | 29.2                              | 4.11   | 35.2   | 1.4   |
|         | 258.2  | 259.2 | 14,836                             | 26,288               | 2,561                              | 7,838                              | 467                                | 69.4                               | 115.0                              | 7.7                                | 20.4                               | 2.0                                | 3.0                                | 0.2                                | 0.9                                | 0.2                                | 41.9                              | 5.23   | 59.3   | 1.9   |
|         | 259.2  | 260.2 | 22,870                             | 45,451               | 4,712                              | 14,872                             | 852                                | 118.1                              | 177.5                              | 8.8                                | 23.4                               | 2.2                                | 3.1                                | 0.3                                | 0.8                                | 0.1                                | 40.6                              | 8.91   | 71.3   | 3.6   |

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 260.2  | 261.2 | 15,070                             | 28,130               | 2,791                              | 8,596                              | 514                                | 74.1                               | 120.5                              | 7.8                                | 21.5                               | 2.0                                | 3.4                                | 0.3                                | 1.1                                | 0.1                                | 45.7                              | 5.54   | 62.2   | 2.1   |
|         | 261.2  | 262.2 | 6,521                              | 12,284               | 1,214                              | 3,756                              | 237                                | 36.4                               | 62.0                               | 4.6                                | 13.8                               | 1.5                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 34.3                              | 2.42   | 42.1   | 1.9   |
|         | 262.2  | 263.2 | 6,075                              | 11,080               | 1,090                              | 3,359                              | 205                                | 31.5                               | 53.6                               | 4.0                                | 11.9                               | 1.3                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 29.2                              | 2.19   | 32     | 1.3   |
|         | 263.2  | 264.2 | 5,571                              | 9,962                | 953                                | 2,904                              | 169                                | 25.1                               | 41.8                               | 2.9                                | 8.6                                | 0.9                                | 1.8                                | 0.2                                | 0.8                                | 0.1                                | 21.6                              | 1.97   | 17.8   | 1.8   |
|         | 264.2  | 265.2 | 11,482                             | 20,576               | 1,994                              | 5,995                              | 341                                | 49.0                               | 79.4                               | 5.3                                | 14.5                               | 1.5                                | 2.4                                | 0.2                                | 0.9                                | 0.1                                | 31.8                              | 4.06   | 40.8   | 2.1   |
|         | 265.2  | 265.7 | 4,398                              | 7,653                | 720                                | 2,164                              | 126                                | 19.2                               | 32.4                               | 2.7                                | 8.8                                | 1.1                                | 1.7                                | 0.2                                | 0.8                                | 0.1                                | 25.4                              | 1.52   | 19     | 1.9   |
|         | 265.7  | 266.3 | 4,222                              | 8,206                | 866                                | 2,986                              | 223                                | 34.6                               | 62.4                               | 4.4                                | 12.9                               | 1.2                                | 1.8                                | 0.1                                | 0.7                                | 0.1                                | 27.9                              | 1.66   | 54.1   | 2.7   |
|         | 266.3  | 267.3 | 3,882                              | 9,225                | 1,143                              | 4,409                              | 364                                | 53.4                               | 84.0                               | 4.7                                | 12.5                               | 1.2                                | 2.1                                | 0.2                                | 1.0                                | 0.2                                | 25.4                              | 1.92   | 60.5   | 6     |
|         | 267.3  | 267.5 | 3,870                              | 7,297                | 729                                | 2,333                              | 143                                | 21.3                               | 34.8                               | 2.2                                | 7.0                                | 0.9                                | 1.6                                | 0.2                                | 0.8                                | 0.1                                | 20.3                              | 1.45   | 21.9   | 9.9   |
|         | 267.5  | 268.2 | 11,576                             | 17,443               | 1,492                              | 4,199                              | 246                                | 39.3                               | 70.7                               | 5.7                                | 17.6                               | 1.9                                | 2.7                                | 0.3                                | 1.1                                | 0.1                                | 43.2                              | 3.51   | 49.1   | 1.4   |
|         | 268.2  | 269.2 | 11,963                             | 19,286               | 1,740                              | 5,039                              | 289                                | 46.1                               | 81.5                               | 6.7                                | 20.9                               | 2.2                                | 3.3                                | 0.3                                | 1.3                                | 0.2                                | 49.5                              | 3.85   | 49.8   | 1.8   |
|         | 269.2  | 269.9 | 13,604                             | 25,919               | 2,489                              | 7,383                              | 493                                | 79.3                               | 132.0                              | 9.1                                | 24.1                               | 2.4                                | 3.9                                | 0.4                                | 1.6                                | 0.3                                | 49.5                              | 5.02   | 69.2   | 3.4   |
|         | 269.9  | 270.9 | 4,937                              | 9,778                | 962                                | 2,858                              | 184                                | 29.2                               | 48.5                               | 3.4                                | 10.6                               | 1.1                                | 2.2                                | 0.2                                | 1.3                                | 0.2                                | 27.9                              | 1.88   | 26.4   | 8.5   |
|         | 270.9  | 271.9 | 3,167                              | 6,240                | 620                                | 1,872                              | 131                                | 22.2                               | 40.9                               | 3.2                                | 10.3                               | 1.1                                | 2.1                                | 0.3                                | 1.0                                | 0.2                                | 26.7                              | 1.21   | 25.1   | 9.5   |
|         | 271.9  | 272.2 | 6,626                              | 12,591               | 1,214                              | 3,604                              | 242                                | 38.7                               | 67.2                               | 5.0                                | 14.1                               | 1.4                                | 2.4                                | 0.2                                | 0.8                                | 0.1                                | 31.8                              | 2.44   | 50.7   | 3     |
|         | 272.2  | 273.0 | 8,339                              | 15,908               | 1,534                              | 4,537                              | 279                                | 43.5                               | 73.5                               | 5.8                                | 17.7                               | 1.8                                | 3.1                                | 0.3                                | 1.1                                | 0.2                                | 41.9                              | 3.08   | 51.7   | 3.3   |
|         | 273.0  | 273.4 | 12,549                             | 24,077               | 2,308                              | 6,672                              | 414                                | 66.1                               | 110.9                              | 7.8                                | 22.8                               | 2.3                                | 3.5                                | 0.3                                | 1.4                                | 0.2                                | 47.0                              | 4.63   | 59.7   | 1.1   |
|         | 273.4  | 274.4 | 9,570                              | 18,917               | 1,861                              | 5,540                              | 371                                | 61.1                               | 103.0                              | 7.3                                | 21.4                               | 2.1                                | 3.3                                | 0.2                                | 1.1                                | 0.1                                | 45.7                              | 3.65   | 59.1   | 1.7   |
|         | 274.4  | 275.4 | 4,996                              | 9,962                | 1,035                              | 3,219                              | 220                                | 34.5                               | 58.8                               | 3.9                                | 11.3                               | 1.3                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 1.96   | 33.2   | 0.8   |
|         | 275.4  | 276.0 | 5,196                              | 10,454               | 1,091                              | 3,464                              | 232                                | 34.0                               | 57.5                               | 3.7                                | 10.9                               | 1.1                                | 1.8                                | 0.2                                | 0.7                                | 0.1                                | 25.4                              | 2.06   | 32.6   | 2.6   |
|         | 276.0  | 276.5 | 6,908                              | 13,082               | 1,238                              | 3,628                              | 222                                | 35.9                               | 62.7                               | 5.4                                | 17.2                               | 1.8                                | 2.7                                | 0.2                                | 0.9                                | 0.1                                | 40.6                              | 2.52   | 53     | 4.9   |
|         | 276.5  | 277.1 | 5,219                              | 10,073               | 968                                | 2,846                              | 170                                | 25.1                               | 44.3                               | 3.1                                | 10.8                               | 1.2                                | 2.1                                | 0.2                                | 0.9                                | 0.1                                | 27.9                              | 1.94   | 30.3   | 6.8   |
|         | 277.1  | 278.1 | 4,105                              | 7,886                | 753                                | 2,199                              | 141                                | 23.5                               | 42.7                               | 3.5                                | 10.9                               | 1.2                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 26.7                              | 1.52   | 32.1   | 9.6   |
|         | 278.1  | 279.1 | 5,278                              | 10,466               | 1,027                              | 3,079                              | 189                                | 27.8                               | 48.0                               | 3.5                                | 11.0                               | 1.2                                | 2.2                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 2.02   | 27.8   | 3.7   |
|         | 279.1  | 280.1 | 4,457                              | 8,918                | 882                                | 2,683                              | 180                                | 28.7                               | 48.5                               | 3.5                                | 10.4                               | 1.1                                | 2.2                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 1.72   | 28.1   | 3.4   |
|         | 280.1  | 281.1 | 5,231                              | 10,380               | 1,015                              | 3,068                              | 204                                | 33.8                               | 58.7                               | 4.8                                | 15.6                               | 1.6                                | 2.6                                | 0.2                                | 1.1                                | 0.1                                | 36.8                              | 2.01   | 40.4   | 3     |
|         | 281.1  | 282.1 | 4,562                              | 9,164                | 909                                | 2,858                              | 209                                | 35.2                               | 60.6                               | 4.3                                | 12.2                               | 1.2                                | 2.1                                | 0.2                                | 0.7                                | 0.1                                | 26.7                              | 1.78   | 41.5   | 2.1   |
|         | 282.1  | 282.6 | 3,647                              | 7,100                | 692                                | 2,076                              | 140                                | 22.5                               | 39.3                               | 3.2                                | 10.2                               | 1.0                                | 1.8                                | 0.2                                | 1.0                                | 0.1                                | 25.4                              | 1.38   | 25     | 3.2   |
|         | 282.6  | 283.2 | 4,679                              | 9,520                | 936                                | 2,834                              | 191                                | 31.2                               | 54.2                               | 4.6                                | 15.4                               | 1.5                                | 2.6                                | 0.2                                | 1.1                                | 0.1                                | 35.6                              | 1.83   | 34.8   | 2.8   |
|         | 283.2  | 284.2 | 8,034                              | 15,785               | 1,559                              | 4,677                              | 305                                | 48.9                               | 78.8                               | 5.3                                | 14.7                               | 1.4                                | 2.6                                | 0.2                                | 1.0                                | 0.1                                | 31.8                              | 3.05   | 45.5   | 3     |
|         | 284.2  | 285.2 | 10,426                             | 19,224               | 1,879                              | 5,669                              | 380                                | 63.2                               | 107.1                              | 8.1                                | 22.7                               | 2.1                                | 3.1                                | 0.2                                | 0.8                                | 0.1                                | 44.5                              | 3.78   | 90.1   | 2.2   |
|         | 285.2  | 286.2 | 4,128                              | 8,513                | 878                                | 2,718                              | 196                                | 31.3                               | 51.8                               | 3.6                                | 10.7                               | 1.1                                | 1.9                                | 0.2                                | 0.8                                | 0.1                                | 24.1                              | 1.66   | 31.4   | 4.1   |
|         | 286.2  | 287.2 | 4,621                              | 9,274                | 918                                | 2,776                              | 188                                | 32.2                               | 59.6                               | 5.3                                | 16.8                               | 1.6                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 35.6                              | 1.79   | 73.3   | 1.9   |
|         | 287.2  | 288.2 | 8,960                              | 17,443               | 1,679                              | 5,004                              | 319                                | 50.8                               | 87.8                               | 6.6                                | 20.0                               | 2.0                                | 3.3                                | 0.3                                | 1.5                                | 0.2                                | 45.7                              | 3.36   | 54.1   | 7.4   |
|         | 288.2  | 289.2 | 6,263                              | 11,829               | 1,143                              | 3,453                              | 249                                | 41.8                               | 73.7                               | 5.3                                | 16.1                               | 1.6                                | 2.9                                | 0.2                                | 1.1                                | 0.1                                | 36.8                              | 2.31   | 51.4   | 3.4   |
|         | 289.2  | 290.2 | 5,887                              | 10,920               | 1,033                              | 3,033                              | 191                                | 31.2                               | 52.2                               | 4.2                                | 14.0                               | 1.6                                | 2.6                                | 0.2                                | 0.9                                | 0.1                                | 35.6                              | 2.12   | 32.1   | 5     |
|         | 290.2  | 291.2 | 12,901                             | 22,787               | 2,084                              | 5,809                              | 357                                | 59.6                               | 103.6                              | 7.7                                | 22.3                               | 2.2                                | 3.7                                | 0.2                                | 1.0                                | 0.2                                | 49.5                              | 4.42   | 73.8   | 2.3   |
|         | 291.2  | 291.5 | 5,852                              | 10,957               | 1,037                              | 3,079                              | 205                                | 34.4                               | 60.4                               | 4.8                                | 15.6                               | 1.7                                | 2.5                                | 0.2                                | 0.8                                | 0.1                                | 38.1                              | 2.13   | 46.1   | 5.2   |
|         | 291.5  | 292.2 | 5,583                              | 10,982               | 1,091                              | 3,348                              | 259                                | 44.8                               | 78.2                               | 5.7                                | 16.6                               | 1.7                                | 2.7                                | 0.2                                | 1.0                                | 0.1                                | 38.1                              | 2.15   | 61.6   | 3.1   |
|         | 292.2  | 293.2 | 10,790                             | 17,443               | 1,522                              | 4,152                              | 241                                | 38.7                               | 69.3                               | 5.9                                | 19.5                               | 2.0                                | 3.2                                | 0.2                                | 0.9                                | 0.1                                | 48.3                              | 3.43   | 54.5   | 2     |
|         | 293.2  | 294.2 | 7,201                              | 12,530               | 1,151                              | 3,394                              | 230                                | 38.3                               | 67.0                               | 5.3                                | 16.4                               | 1.9                                | 3.1                                | 0.3                                | 1.5                                | 0.2                                | 43.2                              | 2.47   | 49.2   | 2     |
|         | 294.2  | 295.2 | 9,957                              | 18,119               | 1,698                              | 4,922                              | 302                                | 47.4                               | 77.8                               | 5.5                                | 16.1                               | 1.6                                | 2.5                                | 0.2                                | 1.0                                | 0.1                                | 36.8                              | 3.52   | 47     | 6.1   |
|         | 295.2  | 296.2 | 4,902                              | 9,496                | 924                                | 2,776                              | 172                                | 27.0                               | 43.3                               | 3.2                                | 10.1                               | 1.1                                | 1.7                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 1.84   | 25.4   | 4     |
|         | 296.2  | 297.2 | 5,383                              | 9,741                | 910                                | 2,683                              | 169                                | 27.6                               | 46.5                               | 3.3                                | 10.7                               | 1.2                                | 2.2                                | 0.2                                | 1.1                                | 0.2                                | 29.2                              | 1.90   | 26.5   | 4.2   |
|         | 297.2  | 298.1 | 9,312                              | 15,785               | 1,408                              | 3,989                              | 257                                | 44.2                               | 79.0                               | 6.5                                | 20.9                               | 2.3                                | 3.4                                | 0.3                                | 1.3                                | 0.1                                | 49.5                              | 3.10   | 63.1   | 2.1   |
|         | 298.1  | 299.1 | 18,472                             | 33,904               | 3,298                              | 9,856                              | 703                                | 120.4                              | 205.7                              | 13.8                               | 37.9                               | 3.5                                | 5.3                                | 0.5                                | 2.1                                | 0.3                                | 78.7                              | 6.67   | 137    | 4.8   |

# LINDIAN

RESOURCES LTD.

| Hole ID | From m | To m  | La <sub>2</sub> O <sub>3</sub> ppm | CeO <sub>2</sub> ppm | Pr <sub>2</sub> O <sub>3</sub> ppm | Nd <sub>2</sub> O <sub>3</sub> ppm | Sm <sub>2</sub> O <sub>3</sub> ppm | Eu <sub>2</sub> O <sub>3</sub> ppm | Gd <sub>2</sub> O <sub>3</sub> ppm | Tb <sub>2</sub> O <sub>3</sub> ppm | Dy <sub>2</sub> O <sub>3</sub> ppm | Ho <sub>2</sub> O <sub>3</sub> ppm | Er <sub>2</sub> O <sub>3</sub> ppm | Tm <sub>2</sub> O <sub>3</sub> ppm | Yb <sub>2</sub> O <sub>3</sub> ppm | Lu <sub>2</sub> O <sub>3</sub> ppm | Y <sub>2</sub> O <sub>3</sub> ppm | TREO % | Th ppm | U ppm |
|---------|--------|-------|------------------------------------|----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------|--------|-------|
|         | 299.1  | 300.1 | 8,045                              | 14,679               | 1,389                              | 4,117                              | 283                                | 48.1                               | 86.2                               | 6.8                                | 21.8                               | 2.4                                | 3.3                                | 0.3                                | 1.3                                | 0.2                                | 52.1                              | 2.87   | 67.4   | 3.9   |
|         | 300.1  | 301.1 | 9,406                              | 16,891               | 1,577                              | 4,747                              | 368                                | 67.3                               | 121.6                              | 9.8                                | 30.3                               | 3.3                                | 5.2                                | 0.5                                | 2.1                                | 0.3                                | 74.9                              | 3.33   | 108    | 4.4   |
|         | 301.1  | 302.1 | 7,565                              | 13,021               | 1,191                              | 3,476                              | 242                                | 41.8                               | 74.8                               | 5.7                                | 17.3                               | 1.8                                | 2.7                                | 0.2                                | 1.0                                | 0.1                                | 38.1                              | 2.57   | 55.1   | 3     |
|         | 302.1  | 303.1 | 9,324                              | 15,539               | 1,383                              | 3,896                              | 244                                | 41.9                               | 75.6                               | 5.9                                | 18.6                               | 2.0                                | 3.1                                | 0.2                                | 1.0                                | 0.1                                | 45.7                              | 3.06   | 59.7   | 2.6   |
|         | 303.1  | 304.1 | 9,476                              | 16,399               | 1,486                              | 4,316                              | 292                                | 52.1                               | 94.3                               | 8.3                                | 29.5                               | 3.2                                | 5.2                                | 0.4                                | 1.8                                | 0.2                                | 77.5                              | 3.22   | 78.4   | 4.8   |
|         | 304.1  | 305.1 | 30,258                             | 46,065               | 3,951                              | 10,591                             | 630                                | 107.3                              | 190.2                              | 14.4                               | 42.0                               | 4.0                                | 6.0                                | 0.4                                | 1.6                                | 0.3                                | 85.1                              | 9.19   | 135    | 4     |
|         | 305.1  | 306.1 | 32,604                             | 49,996               | 4,325                              | 11,897                             | 782                                | 139.5                              | 246.7                              | 17.6                               | 48.4                               | 4.5                                | 6.2                                | 0.4                                | 1.6                                | 0.2                                | 97.8                              | 10.02  | 183    | 4.7   |
|         | 306.1  | 306.4 | 8,257                              | 14,372               | 1,323                              | 3,779                              | 240                                | 40.8                               | 70.7                               | 6.1                                | 18.7                               | 1.9                                | 2.9                                | 0.2                                | 0.9                                | 0.1                                | 43.2                              | 2.82   | 54.9   | 3.2   |
|         | 306.4  | 307.4 | 5,160                              | 9,692                | 929                                | 2,811                              | 195                                | 32.2                               | 53.3                               | 4.0                                | 12.4                               | 1.2                                | 2.3                                | 0.2                                | 0.9                                | 0.1                                | 29.2                              | 1.89   | 37.1   | 5.1   |
|         | 307.4  | 308.4 | 4,808                              | 9,274                | 900                                | 2,706                              | 175                                | 27.9                               | 43.8                               | 3.1                                | 9.6                                | 1.1                                | 1.9                                | 0.2                                | 0.9                                | 0.1                                | 24.1                              | 1.80   | 26     | 5.8   |
|         | 308.4  | 309.4 | 3,307                              | 7,198                | 787                                | 2,694                              | 241                                | 43.1                               | 71.7                               | 4.7                                | 13.3                               | 1.3                                | 2.1                                | 0.2                                | 0.9                                | 0.2                                | 29.2                              | 1.44   | 56.4   | 6.6   |
|         | 309.4  | 310.4 | 3,143                              | 6,965                | 766                                | 2,624                              | 242                                | 43.7                               | 74.5                               | 4.9                                | 13.9                               | 1.4                                | 2.3                                | 0.2                                | 1.0                                | 0.1                                | 29.2                              | 1.39   | 50.7   | 5.6   |
|         | 310.4  | 311.4 | 4,398                              | 8,992                | 913                                | 2,916                              | 223                                | 37.2                               | 62.4                               | 4.3                                | 13.7                               | 1.6                                | 2.9                                | 0.3                                | 1.7                                | 0.2                                | 36.8                              | 1.76   | 38.6   | 9.4   |
|         | 311.4  | 312.4 | 5,688                              | 11,559               | 1,199                              | 3,931                              | 320                                | 56.4                               | 91.4                               | 5.9                                | 16.5                               | 1.7                                | 2.6                                | 0.2                                | 1.1                                | 0.2                                | 34.3                              | 2.29   | 61.8   | 6     |
|         | 312.4  | 313.4 | 7,295                              | 14,864               | 1,528                              | 4,782                              | 363                                | 62.1                               | 102.9                              | 7.2                                | 21.7                               | 2.2                                | 3.7                                | 0.3                                | 1.5                                | 0.2                                | 47.0                              | 2.91   | 68.3   | 6.7   |
|         | 313.4  | 314.0 | 5,735                              | 11,866               | 1,232                              | 3,907                              | 293                                | 48.6                               | 81.6                               | 6.0                                | 18.3                               | 1.9                                | 3.2                                | 0.3                                | 1.4                                | 0.2                                | 43.2                              | 2.32   | 50.5   | 6.2   |
|         | 314.0  | 314.7 | 6,145                              | 12,468               | 1,275                              | 4,129                              | 329                                | 58.9                               | 99.8                               | 6.8                                | 19.4                               | 2.0                                | 3.1                                | 0.2                                | 1.1                                | 0.1                                | 40.6                              | 2.46   | 62.3   | 2.9   |
|         | 314.7  | 315.2 | 5,301                              | 10,970               | 1,139                              | 3,674                              | 276                                | 46.2                               | 78.0                               | 5.6                                | 17.3                               | 1.7                                | 2.7                                | 0.2                                | 1.1                                | 0.2                                | 38.1                              | 2.16   | 48.4   | 6.6   |
|         | 315.2  | 316.2 | 5,500                              | 11,129               | 1,119                              | 3,499                              | 247                                | 40.2                               | 66.0                               | 4.5                                | 12.9                               | 1.3                                | 2.1                                | 0.2                                | 0.8                                | 0.1                                | 26.7                              | 2.16   | 40.6   | 7.3   |
|         | 316.2  | 317.2 | 4,152                              | 8,587                | 863                                | 2,741                              | 189                                | 30.5                               | 49.2                               | 3.6                                | 11.1                               | 1.2                                | 1.9                                | 0.2                                | 1.0                                | 0.2                                | 27.9                              | 1.67   | 30.1   | 10.5  |

## JORC Code, 2012 Edition – Table 1 report

### Section 1 Sampling Techniques and Data

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

| Criteria                     | JORC Code explanation  | Commentary   |
|------------------------------|--|--|
| <i>Sampling techniques</i>   | <ul style="list-style-type: none"> <li>• <i>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 down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</i></li> <li>• <i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i></li> <li>• <i>Aspects of the determination of mineralisation that are Material to the Public Report.</i></li> <li>• <i>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.</i></li> </ul> | <p>Reverse circulation drilling sampled on 1 metre intervals.</p> <p>Riffle split sample mass averaging 1.5kg crushed, pulverized using standard laboratory procedures with subsample assayed using appropriate methods for rare earth element total digestion and analysis.</p> |
| <i>Drilling techniques</i>   | <ul style="list-style-type: none"> <li>• <i>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 other type, whether core is oriented and if so, by what method, etc).</i></li> </ul>   | <p>Standard reverse circulation drilling using 5 ¼ inch face sampling hammer</p>   |
| <i>Drill sample recovery</i> | <ul style="list-style-type: none"> <li>• <i>Method of recording and assessing core and chip sample recoveries and results assessed.</i></li> <li>• <i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i></li> </ul>   | <p>Samples collected on a 1 drilled metre interval. Rock cuttings collected in large plastic bags marked with hole ID and interval from-to via a standard sample collection cyclone.</p>   |

| Criteria                                       | JORC Code explanation  | Commentary  |
|--|--|---|
|  | <ul style="list-style-type: none"> <li>• <i>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</i></li> </ul>  | <p>All 1 metre interval bags are weighed in the field after removal from the sample collection cyclone. Collected sample mass is measured on a tared digital scale and recorded in drill hole data files.</p> <p>Sample recovery is maximized by:</p> <ul style="list-style-type: none"> <li>• Installing PVC collar pipe in the upper fractured rock zone of the hole to a depth where air loss is minimised and sample return is consistent.</li> <li>• Sample cyclone is sealed to plastic sample collection bags do not leak</li> </ul> <p>Sample return was variable with:</p> <ul style="list-style-type: none"> <li>• Occasional natural voids of up to 7 metres having &lt;10%, often 0% return</li> <li>• Intervals of rock fracturing and loss of air circulation having recoveries averaging 30-60%</li> <li>• Competent rock proved good sample recovery averaging &gt;90%</li> </ul> |
| Logging  | <ul style="list-style-type: none"> <li>• <i>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</i></li> <li>• <i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i></li> <li>• <i>The total length and percentage of the relevant intersections logged.</i></li> </ul>  | <p>All RC chips have been geologically logged by the onsite geologist at 1 m intervals and chip trays have been retained and photographed</p> <p>Logging is qualitative with fields including shade, colour, weathering, grainsize, texture, lithology, veining, mineralisation and alteration.</p> <p>Additional non-geological qualitative logging includes comments for sample recovery, moisture, and hardness for each logged interval.</p>  |
| Sub-sampling techniques and sample preparation | <ul style="list-style-type: none"> <li>• <i>If core, whether cut or sawn and whether quarter, half or all core taken.</i></li> <li>• <i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i></li> <li>• <i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i></li> <li>• <i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i></li> <li>• <i>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field</i></li> </ul> | <p>Plastic sample collection bags have been split using a 2-tier riffle splitter to achieve a ¼ sub sample of the original mass.</p> <p>This split is then halved in a single tier splitter to give 2 equal samples of approximately 1kg to 2kg in mass. These are denoted split A and split B</p> <p>Each interval is provided with a unique sample number which is written on the subsample bags and corresponding numbered sample tickets are placed within the sub sample bags and stapled into the rolled top of each bag.</p> <p>Both split A and split B samples are weighed with mass recorded in the drill hole file for database upload.</p>  |

| Criteria   | JORC Code explanation   | Commentary  |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
|--|---|---|----------|-------------|--------|------------------------|--------|--------------------------|--------|-------------------------|--------|--------------------------|--------|--------------------------------|--------|---|--------|------------------|--------|---------------------|--------|------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|----|----|----|----|----|----|----|----|----|----|
|  | <p><i>duplicate/second-half sampling.</i></p> <ul style="list-style-type: none"> <li><i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i></li> </ul>  | <p>Split A samples are dispatched for laboratory analysis. Split B samples are retained in storage at Kangankunde for future reference as required.</p> <p>Sample weights were recorded prior to sample dispatch. Sample mass is considered appropriate for the grain size of the material being sampled.</p>   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| <p><i>Quality of assay data and laboratory tests</i></p> | <ul style="list-style-type: none"> <li><i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i></li> <li><i>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</i></li> <li><i>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</i></li> </ul> | <p><b>Assay and Laboratory Procedures – All Samples</b></p> <p>Samples were dispatched by air freight direct to ALS laboratory Johannesburg South Africa for sample preparation.</p> <table border="1" data-bbox="1173 616 1854 1011"> <thead> <tr> <th>ALS Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>WEI-21</td> <td>Received sample weight</td> </tr> <tr> <td>LOG-22</td> <td>Sample Login w/o Barcode</td> </tr> <tr> <td>DRY-21</td> <td>High temperature drying</td> </tr> <tr> <td>CRU-31</td> <td>Fine crushing – 70% &lt;2mm</td> </tr> <tr> <td>SPL-21</td> <td>Split sample – Riffle splitter</td> </tr> <tr> <td>PUL-31</td> <td>Pulverise 250g to 85% passing 75 micron</td> </tr> <tr> <td>CRU-QC</td> <td>Crushing QC Test</td> </tr> <tr> <td>PUL-QC</td> <td>Pulverising QC test</td> </tr> <tr> <td>LOG-24</td> <td>Pulp Login w/o Barcode</td> </tr> </tbody> </table> <p>Following sample preparation, a 30 gram pulverized subsample is shipped by airfreight to ALS Perth for analysis</p> <p>The assay technique used for REE was Lithium Borate Fusion ICP-MS (ALS code ME-MS81h). This is a recognised industry standard analysis technique for REE suite and associated elements. Elements analysed at ppm levels:</p> <table border="1" data-bbox="1328 1222 1980 1331"> <tbody> <tr> <td>Ce</td> <td>Dy</td> <td>Er</td> <td>Eu</td> <td>Gd</td> <td>Hf</td> <td>Ho</td> <td>La</td> </tr> <tr> <td>Lu</td> <td>Nb</td> <td>Nd</td> <td>Pr</td> <td>Rb</td> <td>Sm</td> <td>Sn</td> <td>Ta</td> </tr> <tr> <td>Tb</td> <td>Th</td> <td>Tm</td> <td>U</td> <td>W</td> <td>Y</td> <td>Yb</td> <td>Zr</td> </tr> </tbody> </table> <p>Analysis for other metals is conducted by four acid digest and ICP-MS (ALS code ME-4ACD81). The elements analysed using this technique are:</p> <table border="1" data-bbox="1328 1434 1980 1469"> <tbody> <tr> <td>Ag</td> <td>As</td> <td>Cd</td> <td>Co</td> <td>Cu</td> <td>Li</td> <td>Mo</td> <td>Ni</td> </tr> </tbody> </table> | ALS Code | Description | WEI-21 | Received sample weight | LOG-22 | Sample Login w/o Barcode | DRY-21 | High temperature drying | CRU-31 | Fine crushing – 70% <2mm | SPL-21 | Split sample – Riffle splitter | PUL-31 | Pulverise 250g to 85% passing 75 micron | CRU-QC | Crushing QC Test | PUL-QC | Pulverising QC test | LOG-24 | Pulp Login w/o Barcode | Ce | Dy | Er | Eu | Gd | Hf | Ho | La | Lu | Nb | Nd | Pr | Rb | Sm | Sn | Ta | Tb | Th | Tm | U | W | Y | Yb | Zr | Ag | As | Cd | Co | Cu | Li | Mo | Ni |
| ALS Code   | Description   |   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| WEI-21   | Received sample weight  |   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| LOG-22   | Sample Login w/o Barcode  |   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| DRY-21   | High temperature drying   |   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| CRU-31   | Fine crushing – 70% <2mm  |   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| SPL-21   | Split sample – Riffle splitter  |   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| PUL-31   | Pulverise 250g to 85% passing 75 micron   |   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| CRU-QC   | Crushing QC Test  |   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| PUL-QC   | Pulverising QC test   |   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| LOG-24   | Pulp Login w/o Barcode  |   |          |             |        |                        |        |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| Ce   | Dy  | Er  | Eu       | Gd          | Hf     | Ho                     | La     |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| Lu   | Nb  | Nd  | Pr       | Rb          | Sm     | Sn                     | Ta     |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| Tb   | Th  | Tm  | U        | W           | Y      | Yb                     | Zr     |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |
| Ag   | As  | Cd  | Co       | Cu          | Li     | Mo                     | Ni     |                          |        |                         |        |                          |        |                                |        |   |        |                  |        |                     |        |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |

| Criteria | JORC Code explanation | Commentary   |    |    |    |    |
|----------|-----------------------|--|----|----|----|----|
|          |                       | <table border="1" data-bbox="1330 312 1653 347"> <tr> <td>Pb</td> <td>Sc</td> <td>Tl</td> <td>Zn</td> </tr> </table> <p>The sample preparation and assay techniques used are industry standard and provide a total analysis.</p> <p>All laboratories used are ISO 17025 accredited.</p> <p><b>QAQC</b></p> <p><b>Analytical Standards</b><br/>CRM AMIS0356 and GRE-02 were included in sample batches at a ratio of 1:20 to drill samples submitted. This is an acceptable ratio.</p> <p>The assay results for the standards were consistent with the certified levels of accuracy and precision and no bias is evident.</p> <p><b>Blanks</b><br/>CRM blank OREAS C26d and a blank sourced from local barren rock was included in sample batches at a ratio of 1:20 to drill samples submitted for analysis. This is an acceptable ratio.</p> <p>Both CRM blanks contain some REE, with elements critical elements Ce, Nd, Dy and Y present in small quantities. The analysis results were consistent with the certified values for the blanks. No laboratory contamination or bias is evident from these results.</p> <p><b>Duplicates</b><br/>Field duplicate sampling was conducted at a ratio of 1:20 samples. Duplicates were created by replicating the sampling process from the primary sample. Duplicate samples were allocated separate sample numbers and submitted with the same analytical batch as the primary sample. Variability between duplicate results is considered acceptable and no sampling bias is evident.</p> <p><b>Alternative Analysis Technique</b><br/>No alternative analytical method analysis has been undertaken.</p> | Pb | Sc | Tl | Zn |
| Pb       | Sc                    | Tl   | Zn |    |    |    |



| Criteria                                     | JORC Code explanation   | Commentary   |             |                   |            |    |        |                  |    |        |                                |    |        |                                |    |        |                                |    |        |                                |    |        |                                |
|--|---|--|-------------|-------------------|------------|----|--------|------------------|----|--------|--------------------------------|----|--------|--------------------------------|----|--------|--------------------------------|----|--------|--------------------------------|----|--------|--------------------------------|
| <p>Verification of sampling and assaying</p> | <ul style="list-style-type: none"> <li>• <i>The verification of significant intersections by either independent or alternative company personnel.</i></li> <li>• <i>The use of twinned holes.</i></li> <li>• <i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i></li> <li>• <i>Discuss any adjustment to assay data.</i></li> </ul> | <p>No independent verification of significant intersection undertaken.</p> <p>No twinning of drill holes was undertaken.</p> <p>Sampling protocols for sampling and QAQC were documented and held on site by the responsible geologist. No procedures for data storage and management have been compiled yet.</p> <p>Data collected in the field by hand and entered into Excel spreadsheet. Data are then compiled with assay results compiled and stored in a secure database managed by Geobase Australia a professional provider of database services. Data verification is conducted on data entry including hole depths, sample intervals and sample numbers. Sample numbers from assay data are verified prior to entry into the database.</p> <p>Assay data was received in digital format from the laboratory and merged with the sampling data in the database.</p> <p>Data validation of assay data and sampling data have been conducted to ensure data entry is correct.</p> <p>All assay data received from the laboratory in element form is unadjusted for data entry.</p> <p>Conversion of elemental analysis (REE) to stoichiometric oxide (REO) was undertaken by spreadsheet using defined conversion factors.(Source:<a href="https://www.jcu.edu.au/advanced-analytical-centre/services-and-resources/resources-and-extras/element-to-stoichiometric-oxide-conversion-factors">https://www.jcu.edu.au/advanced-analytical-centre/services-and-resources/resources-and-extras/element-to-stoichiometric-oxide-conversion-factors</a>)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Element ppm</th> <th>Conversion Factor</th> <th>Oxide Form</th> </tr> </thead> <tbody> <tr> <td>Ce</td> <td>1.2284</td> <td>CeO<sub>2</sub></td> </tr> <tr> <td>Dy</td> <td>1.1477</td> <td>Dy<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Er</td> <td>1.1435</td> <td>Er<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Eu</td> <td>1.1579</td> <td>Eu<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Gd</td> <td>1.1526</td> <td>Gd<sub>2</sub>O<sub>3</sub></td> </tr> <tr> <td>Ho</td> <td>1.1455</td> <td>Ho<sub>2</sub>O<sub>3</sub></td> </tr> </tbody> </table> | Element ppm | Conversion Factor | Oxide Form | Ce | 1.2284 | CeO <sub>2</sub> | Dy | 1.1477 | Dy <sub>2</sub> O <sub>3</sub> | Er | 1.1435 | Er <sub>2</sub> O <sub>3</sub> | Eu | 1.1579 | Eu <sub>2</sub> O <sub>3</sub> | Gd | 1.1526 | Gd <sub>2</sub> O <sub>3</sub> | Ho | 1.1455 | Ho <sub>2</sub> O <sub>3</sub> |
| Element ppm                                  | Conversion Factor   | Oxide Form   |             |                   |            |    |        |                  |    |        |                                |    |        |                                |    |        |                                |    |        |                                |    |        |                                |
| Ce   | 1.2284  | CeO <sub>2</sub>   |             |                   |            |    |        |                  |    |        |                                |    |        |                                |    |        |                                |    |        |                                |    |        |                                |
| Dy   | 1.1477  | Dy <sub>2</sub> O <sub>3</sub>   |             |                   |            |    |        |                  |    |        |                                |    |        |                                |    |        |                                |    |        |                                |    |        |                                |
| Er   | 1.1435  | Er <sub>2</sub> O <sub>3</sub>   |             |                   |            |    |        |                  |    |        |                                |    |        |                                |    |        |                                |    |        |                                |    |        |                                |
| Eu   | 1.1579  | Eu <sub>2</sub> O <sub>3</sub>   |             |                   |            |    |        |                  |    |        |                                |    |        |                                |    |        |                                |    |        |                                |    |        |                                |
| Gd   | 1.1526  | Gd <sub>2</sub> O <sub>3</sub>   |             |                   |            |    |        |                  |    |        |                                |    |        |                                |    |        |                                |    |        |                                |    |        |                                |
| Ho   | 1.1455  | Ho <sub>2</sub> O <sub>3</sub>   |             |                   |            |    |        |                  |    |        |                                |    |        |                                |    |        |                                |    |        |                                |    |        |                                |

| Criteria                | JORC Code explanation   | Commentary  |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |
|-------------------------|---|---|----|--------|--------------------------------|----|--------|--------------------------------|----|--------|--------------------------------|----|--------|---------------------------------|----|--------|--------------------------------|----|--------|--------------------------------|----|--------|--------------------------------|---|--------|-------------------------------|----|--------|--------------------------------|
|                         |   | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>La</td><td>1.1728</td><td>La<sub>2</sub>O<sub>3</sub></td></tr> <tr><td>Lu</td><td>1.1371</td><td>Lu<sub>2</sub>O<sub>3</sub></td></tr> <tr><td>Nd</td><td>1.1664</td><td>Nd<sub>2</sub>O<sub>3</sub></td></tr> <tr><td>Pr</td><td>1.2082</td><td>Pr<sub>6</sub>O<sub>11</sub></td></tr> <tr><td>Sm</td><td>1.1596</td><td>Sm<sub>2</sub>O<sub>3</sub></td></tr> <tr><td>Tb</td><td>1.1762</td><td>Tb<sub>4</sub>O<sub>7</sub></td></tr> <tr><td>Tm</td><td>1.1421</td><td>Tm<sub>2</sub>O<sub>3</sub></td></tr> <tr><td>Y</td><td>1.2699</td><td>Y<sub>2</sub>O<sub>3</sub></td></tr> <tr><td>Yb</td><td>1.1387</td><td>Yb<sub>2</sub>O<sub>3</sub></td></tr> </table> <p>Rare earth oxide is the industry accepted form for reporting rare earths. The following calculations are used for compiling REO into their reporting and evaluation groups:</p> <p>Note that Y<sub>2</sub>O<sub>3</sub> is included in the TREO calculation.</p> <p>TREO (Total Rare Earth Oxide) = La<sub>2</sub>O<sub>3</sub> + CeO<sub>2</sub> + Pr<sub>6</sub>O<sub>11</sub> + Nd<sub>2</sub>O<sub>3</sub> + Sm<sub>2</sub>O<sub>3</sub> + Eu<sub>2</sub>O<sub>3</sub> + Gd<sub>2</sub>O<sub>3</sub> + Tb<sub>4</sub>O<sub>7</sub> + Dy<sub>2</sub>O<sub>3</sub> + Ho<sub>2</sub>O<sub>3</sub> + Er<sub>2</sub>O<sub>3</sub> + Tm<sub>2</sub>O<sub>3</sub> + Yb<sub>2</sub>O<sub>3</sub> + Y<sub>2</sub>O<sub>3</sub> + Lu<sub>2</sub>O<sub>3</sub>.</p> <p>HREO (Heavy Rare Earth Oxide) = Sm<sub>2</sub>O<sub>3</sub> + Eu<sub>2</sub>O<sub>3</sub> + Gd<sub>2</sub>O<sub>3</sub> + Tb<sub>4</sub>O<sub>7</sub> + Dy<sub>2</sub>O<sub>3</sub> + Ho<sub>2</sub>O<sub>3</sub> + Er<sub>2</sub>O<sub>3</sub> + Tm<sub>2</sub>O<sub>3</sub> + Yb<sub>2</sub>O<sub>3</sub> + Y<sub>2</sub>O<sub>3</sub> + Lu<sub>2</sub>O<sub>3</sub></p> <p>LREO (Light Rare Earth Oxide) = La<sub>2</sub>O<sub>3</sub> + CeO<sub>2</sub> + Pr<sub>6</sub>O<sub>11</sub> + Nd<sub>2</sub>O<sub>3</sub></p> <p>NdPrO% = Nd<sub>2</sub>O<sub>3</sub> + Pr<sub>6</sub>O<sub>11</sub></p> <p>NdPrO% of TREO= NdPrO%/TREO x 100</p> | La | 1.1728 | La <sub>2</sub> O <sub>3</sub> | Lu | 1.1371 | Lu <sub>2</sub> O <sub>3</sub> | Nd | 1.1664 | Nd <sub>2</sub> O <sub>3</sub> | Pr | 1.2082 | Pr <sub>6</sub> O <sub>11</sub> | Sm | 1.1596 | Sm <sub>2</sub> O <sub>3</sub> | Tb | 1.1762 | Tb <sub>4</sub> O <sub>7</sub> | Tm | 1.1421 | Tm <sub>2</sub> O <sub>3</sub> | Y | 1.2699 | Y <sub>2</sub> O <sub>3</sub> | Yb | 1.1387 | Yb <sub>2</sub> O <sub>3</sub> |
| La                      | 1.1728  | La <sub>2</sub> O <sub>3</sub>  |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |
| Lu                      | 1.1371  | Lu <sub>2</sub> O <sub>3</sub>  |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |
| Nd                      | 1.1664  | Nd <sub>2</sub> O <sub>3</sub>  |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |
| Pr                      | 1.2082  | Pr <sub>6</sub> O <sub>11</sub>   |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |
| Sm                      | 1.1596  | Sm <sub>2</sub> O <sub>3</sub>  |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |
| Tb                      | 1.1762  | Tb <sub>4</sub> O <sub>7</sub>  |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |
| Tm                      | 1.1421  | Tm <sub>2</sub> O <sub>3</sub>  |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |
| Y                       | 1.2699  | Y <sub>2</sub> O <sub>3</sub>   |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |
| Yb                      | 1.1387  | Yb <sub>2</sub> O <sub>3</sub>  |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |
| Location of data points | <ul style="list-style-type: none"> <li>• Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>• Specification of the grid system used.</li> <li>• Quality and adequacy of topographic control.</li> </ul> | <p>Drill hole collar locations reported have been surveyed by Differential GPS and are considered accurate to 0.2m.</p> <p>Datum WGS84 Zone 36 South was used for location data planning, collection and storage. This is the appropriate datum for the project area. No grid transformations were applied to the data.</p> <p>Downhole surveys are planned dip and azimuth pending finalisation of downhole surveys.</p>   |    |        |                                |    |        |                                |    |        |                                |    |        |                                 |    |        |                                |    |        |                                |    |        |                                |   |        |                               |    |        |                                |

| Criteria   | JORC Code explanation  | Commentary  |
|--|--|---|
|  |  | Topography is derived from SRTM 30 metre digital elevation database.  |
| <i>Data spacing and distribution</i>                           | <ul style="list-style-type: none"> <li>• <i>Data spacing for reporting of Exploration Results.</i></li> <li>• <i>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.</i></li> <li>• <i>Whether sample compositing has been applied.</i></li> </ul>                        | <p>Drill spacing for this phase of drilling is a nominal 50 metre hole spacing on 50 metre line spacing. Topography limitations have necessitated drilling some holes off section.</p> <p>Evaluation of hole spacing for suitability to determine geology and grade estimation will be undertaken following this phase of drilling.</p> <p>No mineral resource estimation has been undertaken.</p> <p>No sample compositing has been used.</p>  |
| <i>Orientation of data in relation to geological structure</i> | <ul style="list-style-type: none"> <li>• <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i></li> <li>• <i>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.</i></li> </ul> | The relationship between mineralisation and drill orientation is not known.   |
| <i>Sample security</i>   | <ul style="list-style-type: none"> <li>• <i>The measures taken to ensure sample security.</i></li> </ul>   | <p>After collection, the samples were transported by Company representatives via road to Lilongwe and dispatched via airfreight to ALS Johannesburg South Africa. Sample shipments are managed by a professional cargo freight company and remain secure during transport.</p> <p>Following sample preparation subsamples are shipped to Perth Australia by ALS using DHL. Samples are received in Australia and subject to customs inspection and quarantine treatment.</p> <p>Samples were subsequently transported from Australian customs to ALS Perth via road freight and inspected on arrival by a Company representative.</p> |
| <i>Audits or reviews</i>                                       | <ul style="list-style-type: none"> <li>• <i>The results of any audits or reviews of sampling techniques and data.</i></li> </ul>   | No audits or reviews have been undertaken   |

## Section 2 Reporting of Exploration Results

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

| Criteria                                       | JORC Code explanation  | Commentary   |
|--|--|--|
| <i>Mineral tenement and land tenure status</i> | <ul style="list-style-type: none"> <li>• <i>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</i></li> <li>• <i>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</i></li> </ul> | <p>The Kangankunde Project comprising granted Exploration Licence EPL0514/18R and Mining Licence MML0290/22 is 100% owned by Rift Valley Resource Developments (RVRD) a Malawian registered company. Lindian Resources currently holds 33% of RVRD with a binding share purchase agreement in place to progressively acquire 100 % of RVRD.</p>  |
| <i>Exploration done by other parties</i>       | <ul style="list-style-type: none"> <li>• <i>Acknowledgment and appraisal of exploration by other parties.</i></li> </ul>   | <p>Previous exploration includes:</p> <p>1952-1958: Eight trenches excavated. No data records known to exist.</p> <p>1959: Geological mapping, ten trenches excavated, seven drill holes drilled below main trenches. Data not sighted</p> <p>1972-1981: Trench mapping and sampling, adit driven 300 metres north to south with several crosscuts. Diamond drilling from crosscuts. Pilot plant operated producing strontianite and monazite concentrate. Limited data available in hard copy only.</p> <p>1987- 1990: Feasibility study activities including surface core drilling, processing studies, geotechnical and groundwater studies, estimation of “geological reserves” (Not JORC compliant). Limited data available in hard copy reports.</p> <p>Historical data is largely not available or not readily validated and is currently not reported.</p> |
| <i>Geology</i>                                 | <ul style="list-style-type: none"> <li>• <i>Deposit type, geological setting and style of mineralisation.</i></li> </ul>   | <p>Intrusive carbonatite containing monazite as the main rare earth bearing mineral.</p> <p>The Kangankunde carbonatite complex is characterized by an elliptic structure centring Kangankunde Hill. The diameters in N-S and E-W directions are 900m and 700m, respectively.</p>  |

| Criteria                               | JORC Code explanation  | Commentary   |
|--|--|--|
|  |  | <p>In the ellipse, the following rocks are zonally arranged from the centre to the outer part; carbonatites, carbonatized breccias, wall rock / carbonatite breccias and basement rocks.</p> <p>The carbonatites are dolomitic, sideritic and ankeritic and at surface are distributed widely on the northern and western slopes of the Kangankunde Hill. Manganese carbonatite is found at the top and on the eastern slope of the hill.</p> <p>Monazite is found in all carbonatite types in varying quantities. Other associated minerals are strontianite, barite and apatite.</p> |
| <p><i>Drill hole Information</i></p>   | <ul style="list-style-type: none"> <li>• <i>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:</i> <ul style="list-style-type: none"> <li>○ <i>easting and northing of the drill hole collar</i></li> <li>○ <i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i></li> <li>○ <i>dip and azimuth of the hole</i></li> <li>○ <i>down hole length and interception depth</i></li> <li>○ <i>hole length.</i></li> </ul> </li> <li>• <i>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.</i></li> </ul> | <p>The material information for drill holes relating to this announcement are contained in Appendix 1.</p>   |
| <p><i>Data aggregation methods</i></p> | <ul style="list-style-type: none"> <li>• <i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</i></li> <li>• <i>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.</i></li> </ul>   | <p>Reported intersections are length weighted averages.</p> <p>No maximum or minimum grade cutting has been applied.</p> <p>All reported intercepts are drilled within the orebody and are rare earth mineralised with the lowest grade of 0.35% TREO reported. No geological natural cut-off has been observed and an economic cut-off is not appropriate at this stage of the project.</p> <p>Mineralised zones of higher grade within a fully mineralised hole have been highlighted using a threshold of 2% TREO with a maximum of 5 metres of</p>                                 |

| Criteria  | JORC Code explanation  | Commentary   |
|---|--|--|
|   | <ul style="list-style-type: none"> <li><i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i></li> </ul>   | <p>contiguous internal waste used in the calculation. This cut-off is consistent with other similar deposits.</p> <p>No metal equivalents values are used.</p>   |
| <i>Relationship between mineralisation widths and intercept lengths</i> | <ul style="list-style-type: none"> <li><i>These relationships are particularly important in the reporting of Exploration Results.</i></li> <li><i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i></li> <li><i>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').</i></li> </ul> | <p>Down hole lengths reported, true widths are not known.</p>  |
| <i>Diagrams</i>   | <ul style="list-style-type: none"> <li><i>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</i></li> </ul>  | <p>Refer to diagrams in body of text.</p>  |
| <i>Balanced reporting</i>   | <ul style="list-style-type: none"> <li><i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</i></li> </ul>   | <p>This report contains all drilling results that are consistent with the JORC guidelines. Where data may have been excluded, it is considered not material.</p> |
| <i>Other substantive exploration data</i>                               | <ul style="list-style-type: none"> <li><i>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.</i></li> </ul>                         | <p>Multi element analysis has been conducted including potential radionuclides uranium (U) and thorium (Th) which are both reported in Appendix 2</p>            |
| <i>Further work</i>   | <ul style="list-style-type: none"> <li><i>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</i></li> <li><i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i></li> </ul>  | <p>Future work programs are intended to evaluate the economic opportunity of the project including extraction optimization, and resource definition.</p>         |