

# ASX Announcement



13 July 2026 | ASX: CRI

## Resource Drilling at Jupiter Confirms Priority Near-Surface and High-Grade Rare Earth Zones

Resource definition drilling successfully confirms priority higher-grade zones and provides a key input into the updated SRK Resource Estimate and Jupiter Scoping Study.

### Jupiter Highlights

- 145 AC holes completed for 7,274 metres across a c. 3 km<sup>2</sup> prioritised near-surface resource definition area within the 40 km<sup>2</sup> Jupiter Inferred Resource footprint
- Drilling designed to support conversion of priority resource areas from Inferred to Indicated classification
- Multiple broad, high-grade rare earth intersections returned, including:
  - JPAC273 – 23m @ 3,603 ppm TREO from 20m including 12m @ 5,350 ppm TREO from 24m
  - JPAC277 – 30m @ 2,995 ppm TREO from 20m including 16m @ 3,811 ppm TREO from 20m
  - JPAC280 – 40m @ 2,626 ppm TREO from 36m
  - JPAC393 – 56m @ 2,642 ppm TREO from 16m including 20m @ 3,465 ppm TREO from 36m
  - JPAC397 – 73m @ 2,400 ppm TREO from 16m including 32m @ 3,551 ppm TREO from 24m
  - JPAC401 – 62m @ 2,138 ppm TREO from 20m including 24m @ 2,930 ppm TREO from 62m
- Results confirm continuity of higher-grade mineralisation within targeted optimisation areas
- Resource upgrade area coincides with pilot plant sample area utilised in beneficiation and hydrometallurgical testwork
- Results delivered to SRK Consulting for the updated Jupiter Mineral Resource Estimate
- Updated Resource Estimate to support mine planning and the Jupiter Scoping Study targeted for completion in Q3 2026



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**Critica Limited (ASX: CRI)** (“**Critica**” or “the **Company**”) is pleased to announce results from the recently completed Jupiter Resource Definition Drilling Program, a key component of the Company's strategy to advance the Jupiter Rare Earth Project towards completion of the Scoping Study.

The program comprised 145 Air Core (AC) drill holes for 7,274 metres completed on 125 metre spacing across priority areas identified through resource optimisation studies. The results confirm strong continuity of higher-grade rare earth mineralisation and provide an important dataset supporting the updated Mineral Resource Estimate currently being prepared by SRK Consulting.

## Critica's CEO Jacob Deysel commented:

"When we commenced this program earlier this year, our objective was clear: increase confidence in priority areas of the Jupiter Resource and provide a robust dataset to support the updated Mineral Resource Estimate and ongoing Scoping Study.

The results have successfully validated the targeted higher-grade zones within the existing resource and demonstrate strong continuity of mineralisation across the resource upgrade area. Importantly, the program was designed to support the conversion of priority areas from Inferred to Indicated classification and represents another important de-risking milestone for the Jupiter Project.

With drilling now completed and the results delivered to SRK Consulting, we are entering the next stage of resource development. Together with the significant metallurgical advancements achieved over the past year, these results strengthen the technical foundation of Jupiter and support the progression of the updated Resource Estimate and Scoping Study."

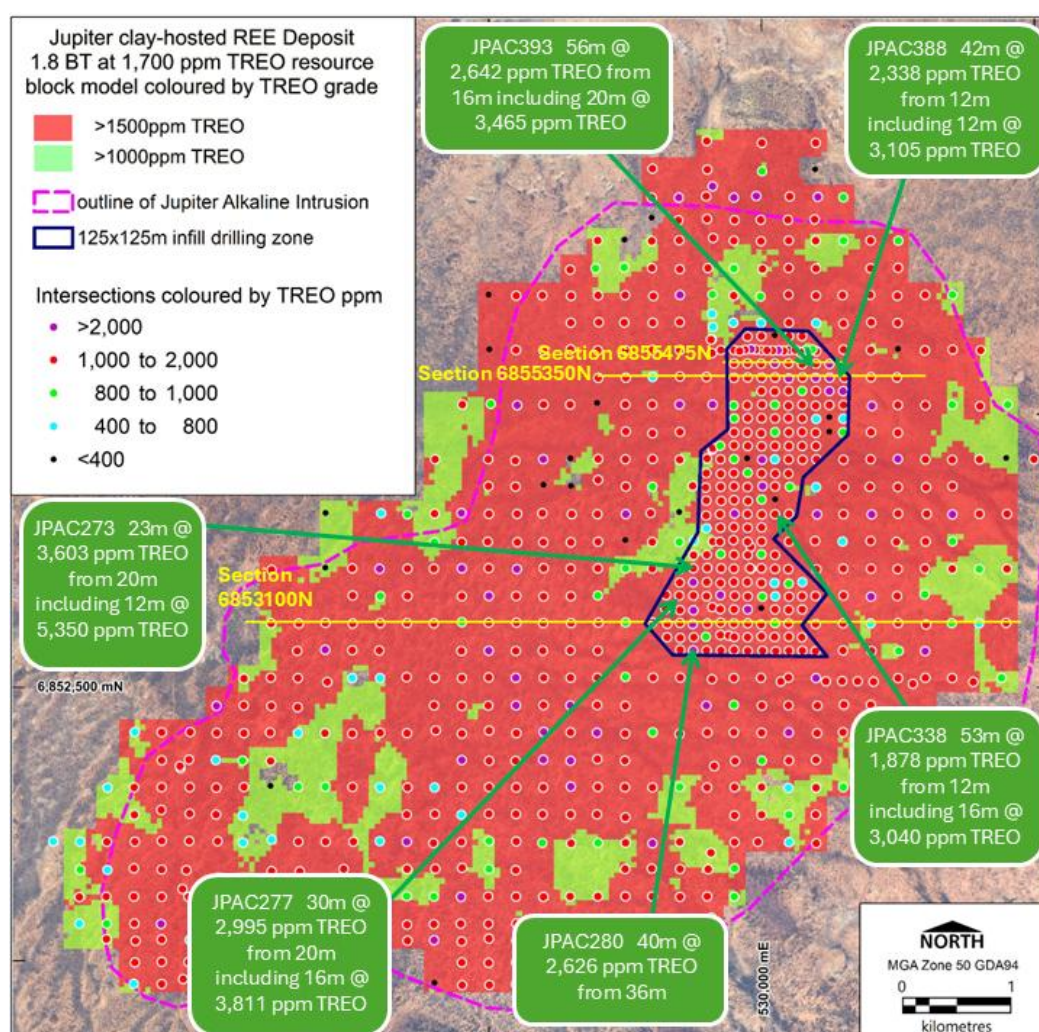


Figure 1: Jupiter infill drilling on 1.8 BT at 1,700 ppm TREO Inferred Resource block model (as announced by Critica to the ASX 11 February 2025) draped over satellite image. See Table 1 for complete listing of the 125 x 125 m infill drilling intersections.

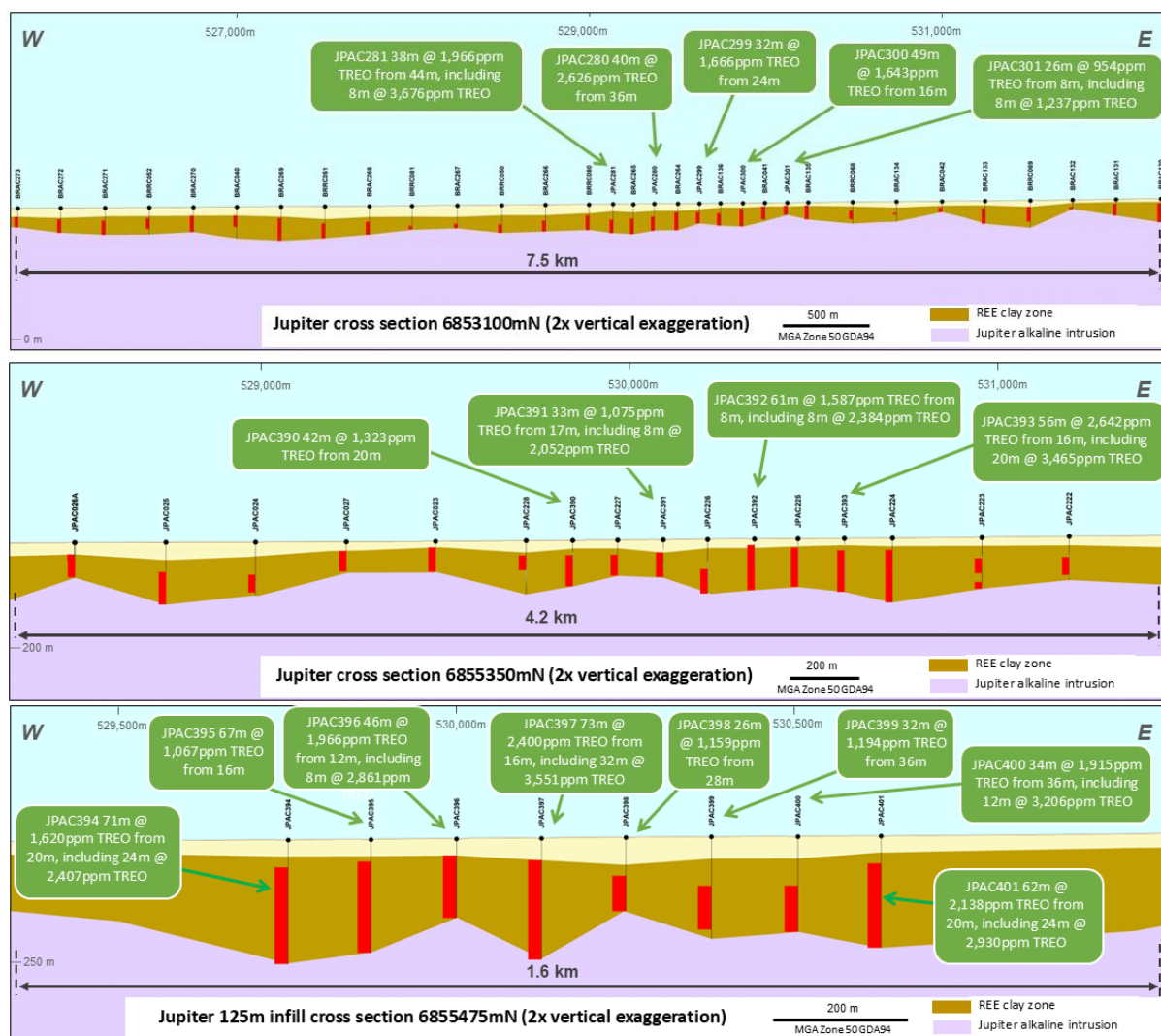


Figure 2: Selected intersections as reported (refer to key in Figure 1), see Table 1 for complete listing of the 125 x 125 m infill drilling intersections.

## Jupiter Resource Definition Drilling program

The Jupiter Resource Drilling Program forms a key component of Critica's strategy to advance the Jupiter Rare Earth Project through resource optimisation, metallurgical development and ongoing Scoping Study activities.

The program was specifically designed to increase drill density across priority areas of the Jupiter Resource identified through optimisation studies, with the objective of supporting the conversion of selected portions of the existing Inferred Mineral Resource to Indicated classification and improving confidence for mine planning and development studies.

A total of 145 Air Core (AC) holes for 7,274 metres were completed on nominal 125 metre by 125 metre spacing across the targeted resource upgrade area. The drilling focused on higher-confidence areas within the current resource footprint and was designed to provide key inputs into the updated Mineral Resource Estimate currently being prepared by SRK Consulting.

Importantly, the resource definition area coincides with the pilot plant sample area and includes mineralisation previously utilised in Critica's beneficiation and hydrometallurgical testwork programs. This alignment provides a direct link between resource definition, metallurgical performance and ongoing development planning.

## Results Confirm Higher-Grade Mineralisation Continuity

A 3 km<sup>2</sup> area of shallow clay-hosted rare earth mineralisation was selected for 125 x 125 m spaced infill drilling within the c. 40 km<sup>2</sup> Jupiter Inferred Resource footprint. The drilling intersected broad zones of clay-hosted rare earth mineralisation across both clay and saprolite domains, confirming continuity of mineralisation and supporting the Company's objective of increasing resource confidence within prioritised development zones.

Selected significant intersections include:

- JPAC273 – 23m @ 3,603 ppm TREO from 20m including 12m @ 5,350 ppm TREO from 24m
- JPAC277 – 30m @ 2,995 ppm TREO from 20m including 16m @ 3,811 ppm TREO from 20m
- JPAC280 – 40m @ 2,626 ppm TREO from 36m
- JPAC338 – 53m @ 1,878 ppm TREO from 12m including 16m @ 3,040 ppm TREO from 44m
- JPAC364 – 55m @ 1,965 ppm TREO from 8m including 8m @ 2,808 ppm TREO from 12m
- JPAC388 – 42m @ 2,338 ppm TREO from 12m including 12m @ 3,105 ppm TREO from 12m
- JPAC389 – 25m @ 2,218 ppm TREO from 8m including 4m @ 4,346 ppm TREO from 12m
- JPAC393 – 56m @ 2,642 ppm TREO from 16m including 20m @ 3,465 ppm TREO from 36m
- JPAC397 – 73m @ 2,400 ppm TREO from 16m including 32m @ 3,551 ppm TREO from 24m
- JPAC401 – 62m @ 2,138 ppm TREO from 20m including 24m @ 2,930 ppm TREO from 62m

## Next Steps

With the resource definition drilling program now completed, Critica's immediate focus is on finalisation of the updated Mineral Resource Estimate and continued progression of the Jupiter Scoping Study.

Key upcoming activities include:

- Completion of the updated Jupiter Mineral Resource Estimate by SRK Consulting
- Integration of the updated resource model into mine planning and optimisation studies
- Ongoing metallurgical optimisation and product qualification programs
- Assessment of development assumptions and project economics as part of the Jupiter Scoping Study
- Completion of the Jupiter Scoping Study targeted for Q3 2026

The Company believes the updated Resource Estimate, together with the significant metallurgical advancements achieved over the past year, will further strengthen the technical foundation of the Jupiter Project as it advances toward development.

## Building a Critical Minerals Platform

The fracturing of global critical mineral supply chains has created an urgent structural demand for Western aligned sources of the materials that underpin defence, artificial intelligence, electrification and advanced manufacturing. China currently controls approximately 98% of global gallium supply, 85% or more of rare earth processing, 80% or more of tungsten production and downstream processing, and 35% or more of refined tin supply. Export restrictions tightened in November 2025, and Western defence supply chains are actively targeting non-China sourcing by approximately 2027.

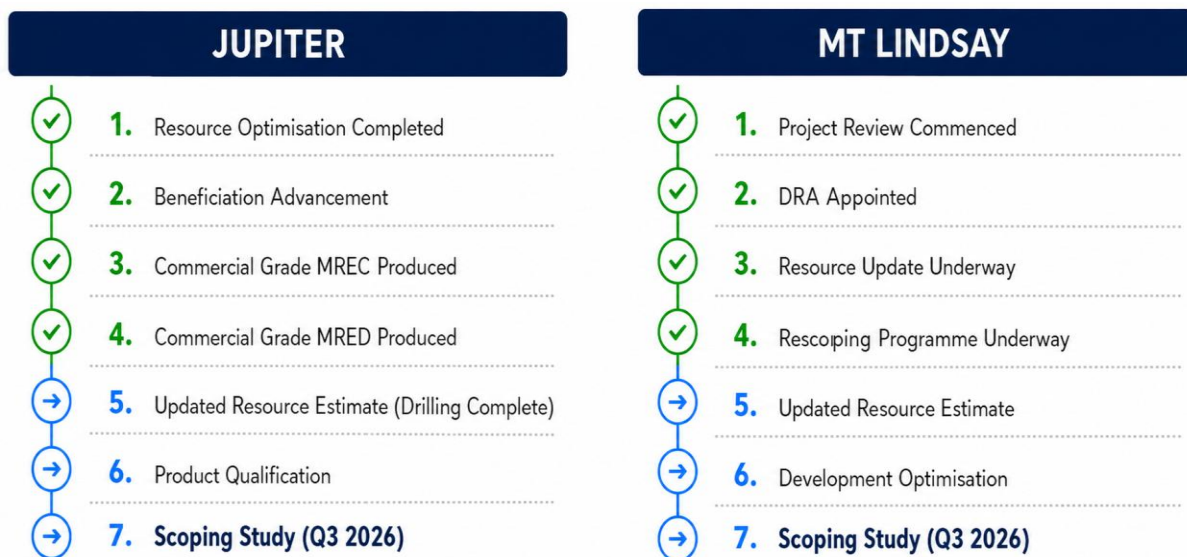
Critica is strategically positioned to capitalise on this demand through its Jupiter and Mt Lindsay projects, which collectively provide exposure to five critical minerals—**tin, tungsten, rare earth elements, yttrium and gallium**. These commodities are at the centre of global efforts to diversify supply chains, strengthen resource security and support advanced manufacturing, underpinned by increasing policy support and investment across the United States, Australia and Europe

**Jupiter**, Australia's largest clay-hosted rare earth resource<sup>1</sup> adds scale-driven exposure to magnet rare earths, gallium and yttrium across electrification, robotics and AI infrastructure demand. **Mt Lindsay**, one of Australia's largest undeveloped tin-tungsten projects, offers leveraged exposure to two of the most strategically sensitive metals in Western defence and semiconductor supply chains.

Together, these assets position Critica as an emerging multi-commodity critical minerals platform, diversified by project, commodity and end market, and aligned with the structural reconfiguration of Western supply chains now underway.

## Dual Project Development Timeline

The development timeline below illustrates the progress made across both projects to date and the key milestones:



1. Refer to ASX announcement 11 February 2025

Authorised by the Board of Critica Limited.

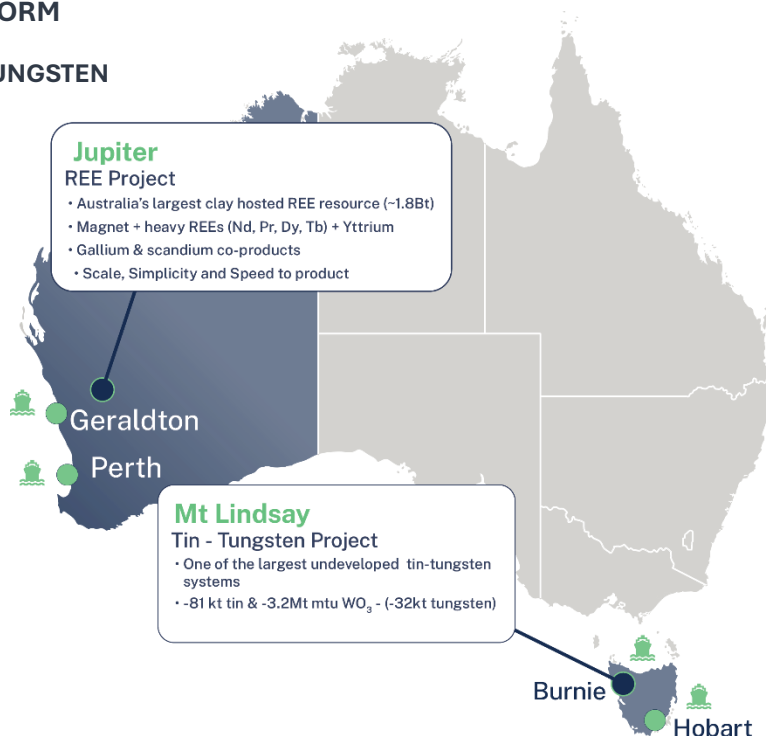
## BUILDING A CRITICAL MINERALS PLATFORM

### RARE EARTHS | YTTRIUM | GALLIUM | TIN | TUNGSTEN

Critica Limited (ASX: CRI) is advancing a portfolio of critical minerals projects with exposure to commodities used in defence, semiconductors, artificial intelligence, advanced manufacturing and electrification.

The Jupiter Project in Western Australia provides exposure to rare earths, yttrium and gallium, while the Mt Lindsay Project in Tasmania provides exposure to tin and tungsten.

Together, these projects provide exposure to minerals essential to future industrial growth and national security applications.



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## Competent Persons Statement

The information in this report that relates to exploration results including geology interpretation, data preparation and data quality is based on work compiled by Dr. Stuart Owen who is a Member of the Australian Institute of Geoscientists. Dr. Owen is a permanent employee of Critica Limited and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC code). Dr. Owen consents to the inclusion in the report of the matters based on his information in the form and context in which they appear.

### No new Mineral Resource information is contained in this report

All material assumptions and technical parameters underpinning the Minerals Resource Estimates referred to within previous ASX announcements continue to apply and have not materially changed since last reported. The company is not aware of any new information or data that materially affects the information included in this announcement.

## Forward Looking Statements

This ASX announcement contains certain statements that may constitute “forward looking statement”. Such statements are only predictions and are subject to inherent risks and uncertainties, which could cause actual values, results, performance achievements to differ materially from those expressed, implied or projected in any forward looking statements.

Forward looking statements are statements that are not historical facts. Words such as “expect(s)”, “feel(s)”, “believe(s)”, “will”, “may”, “anticipate(s)” and similar expressions are intended to identify forward-looking statements. These statements include, but are not limited to statements regarding future production, resources or reserves and exploration results. All such statements are subject to certain risks and uncertainties, many of which are difficult to predict and generally beyond the control of the Company, that could cause actual results to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements.

These risks and uncertainties include, but are not limited to: (i) those relating to the interpretation of drill results, the geology, grade and continuity of mineral deposits and conclusions of economic evaluations, (ii) risks relating to possible variations in reserves, grade, planned mining dilution and ore loss, or recovery rates and changes in project parameters as plans continue to be refined, (iii) the potential for delays in exploration or development activities or the completion of feasibility studies, (iv) risks related to commodity price and foreign exchange rate fluctuations, (v) risks related to failure to obtain adequate financing on a timely basis and on acceptable terms or delays in obtaining governmental approvals or in the completion of development or construction activities, and (vi) other risks and uncertainties related to the Company’s prospects, properties and business strategy. Our audience is cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof, and we do not undertake any obligation to revise and disseminate forward-looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of or non-occurrence of any events.

The Company believes that it has a reasonable basis for making the forward-looking Statements in the announcement based on the information contained in this and previous ASX announcements.

**Table One: Jupiter Drill hole locations and significant intersections**

| Hole      | East   | North   | RL<br>m | EOH<br>m | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | MREO<br>ppm | MREO/<br>TREO | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm |
|-----------|--------|---------|---------|----------|-----------|---------|---------------|-------------|-------------|---------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| JPAC263   | 529494 | 6854474 | 346     | 51       | 8         | 51      | 43            | 1241        | 309         | 25%           | 65                                     | 227                                   | 3                                     | 15                                    |
| including |        |         |         |          | 12        | 16      | 4             | 2122        | 543         | 26%           | 119                                    | 401                                   | 4                                     | 19                                    |
| JPAC264   | 529487 | 6854343 | 346     | 57       | 12        | 57      | 45            | 1300        | 343         | 26%           | 72                                     | 254                                   | 3                                     | 14                                    |
| JPAC265   | 529368 | 6854359 | 346     | 48       | 12        | 48      | 36            | 1280        | 330         | 26%           | 69                                     | 244                                   | 3                                     | 15                                    |
| JPAC266   | 529494 | 6854225 | 347     | 63       | 28        | 63      | 35            | 1943        | 458         | 24%           | 100                                    | 338                                   | 4                                     | 17                                    |
| including |        |         |         |          | 32        | 40      | 8             | 3450        | 706         | 20%           | 170                                    | 518                                   | 4                                     | 15                                    |
| JPAC267   | 529496 | 6853971 | 347     | 16       | 12        | 16      | 4             | 735         | 160         | 22%           | 37                                     | 119                                   | 1                                     | 5                                     |
| JPAC268   | 529379 | 6853857 | 347     | 16       | 12        | 16      | 4             | 584         | 121         | 21%           | 30                                     | 89                                    | 1                                     | 2                                     |
| JPAC269   | 529497 | 6853729 | 348     | 30       | 8         | 30      | 22            | 1356        | 365         | 27%           | 70                                     | 276                                   | 4                                     | 16                                    |
| JPAC270   | 529376 | 6853724 | 347     | 54       | 8         | 54      | 46            | 1906        | 511         | 27%           | 100                                    | 384                                   | 5                                     | 23                                    |
| including |        |         |         |          | 12        | 32      | 20            | 2484        | 710         | 29%           | 140                                    | 540                                   | 5                                     | 25                                    |
| JPAC271   | 529375 | 6853602 | 347     | 70       | 24        | 70      | 46            | 1433        | 361         | 25%           | 75                                     | 270                                   | 3                                     | 14                                    |
| including |        |         |         |          | 32        | 48      | 16            | 2047        | 541         | 26%           | 111                                    | 407                                   | 4                                     | 19                                    |
| JPAC272   | 529498 | 6853477 | 348     | 40       | 8         | 40      | 32            | 1963        | 464         | 24%           | 93                                     | 347                                   | 4                                     | 21                                    |
| including |        |         |         |          | 12        | 28      | 16            | 2527        | 553         | 22%           | 112                                    | 413                                   | 5                                     | 24                                    |
| JPAC273   | 529372 | 6853476 | 348     | 43       | 20        | 43      | 23            | 3603        | 828         | 23%           | 172                                    | 620                                   | 6                                     | 30                                    |
| including |        |         |         |          | 24        | 36      | 12            | 5350        | 1188        | 22%           | 243                                    | 895                                   | 9                                     | 42                                    |
| JPAC274   | 529248 | 6853474 | 347     | 54       | 8         | 54      | 46            | 1502        | 374         | 25%           | 74                                     | 281                                   | 4                                     | 16                                    |
| including |        |         |         |          | 16        | 32      | 16            | 2229        | 508         | 23%           | 103                                    | 381                                   | 4                                     | 21                                    |
| JPAC275   | 529374 | 6853356 | 348     | 39       | 12        | 39      | 27            | 1992        | 378         | 19%           | 76                                     | 282                                   | 4                                     | 17                                    |
| including |        |         |         |          | 20        | 28      | 8             | 3980        | 591         | 15%           | 116                                    | 445                                   | 6                                     | 27                                    |
| JPAC276   | 529124 | 6853359 | 347     | 74       | 24        | 74      | 50            | 1675        | 369         | 22%           | 78                                     | 277                                   | 3                                     | 12                                    |
| including |        |         |         |          | 48        | 56      | 8             | 3915        | 855         | 22%           | 170                                    | 652                                   | 6                                     | 27                                    |
| JPAC277   | 529374 | 6853220 | 348     | 51       | 20        | 50      | 30            | 2995        | 864         | 29%           | 171                                    | 657                                   | 7                                     | 29                                    |
| including |        |         |         |          | 20        | 36      | 16            | 3811        | 1156        | 30%           | 238                                    | 877                                   | 8                                     | 33                                    |
| JPAC278   | 529252 | 6853222 | 348     | 72       | 16        | 72      | 56            | 1509        | 325         | 22%           | 73                                     | 242                                   | 2                                     | 9                                     |
| JPAC279   | 529118 | 6853233 | 347     | 77       | 20        | 77      | 57            | 1803        | 358         | 20%           | 79                                     | 265                                   | 2                                     | 11                                    |
| JPAC280   | 529369 | 6853095 | 348     | 76       | 36        | 76      | 40            | 2626        | 696         | 27%           | 144                                    | 511                                   | 7                                     | 34                                    |
| JPAC281   | 529134 | 6853097 | 347     | 82       | 44        | 82      | 38            | 1966        | 417         | 21%           | 92                                     | 303                                   | 4                                     | 19                                    |
| including |        |         |         |          | 60        | 68      | 8             | 3676        | 934         | 25%           | 198                                    | 682                                   | 8                                     | 46                                    |
| JPAC282   | 529489 | 6852978 | 349     | 72       | 32        | 72      | 40            | 933         | 193         | 21%           | 44                                     | 141                                   | 1                                     | 7                                     |
| JPAC283   | 529378 | 6852972 | 348     | 78       | 36        | 78      | 42            | 1530        | 303         | 20%           | 71                                     | 223                                   | 2                                     | 8                                     |
| JPAC284   | 529254 | 6852967 | 348     | 67       | 36        | 67      | 31            | 1426        | 317         | 22%           | 72                                     | 235                                   | 2                                     | 9                                     |
| JPAC285   | 529133 | 6852973 | 348     | 68       | 36        | 68      | 32            | 1772        | 399         | 23%           | 89                                     | 296                                   | 2                                     | 12                                    |
| JPAC286   | 529371 | 6852852 | 348     | 83       | 48        | 83      | 35            | 2057        | 466         | 23%           | 105                                    | 346                                   | 3                                     | 12                                    |
| including |        |         |         |          | 68        | 76      | 8             | 3418        | 744         | 22%           | 169                                    | 556                                   | 4                                     | 16                                    |
| JPAC287   | 529627 | 6852852 | 349     | 66       | 48        | 64      | 16            | 1242        | 288         | 23%           | 59                                     | 215                                   | 2                                     | 12                                    |
| JPAC288   | 529873 | 6852848 | 351     | 49       | 12        | 49      | 37            | 1719        | 335         | 19%           | 71                                     | 249                                   | 3                                     | 13                                    |
| JPAC289   | 530130 | 6852846 | 352     | 27       | 8         | 27      | 19            | 1212        | 305         | 25%           | 60                                     | 225                                   | 3                                     | 17                                    |
| JPAC290   | 530373 | 6852849 | 353     | 59       | 16        | 59      | 43            | 1466        | 370         | 25%           | 72                                     | 276                                   | 4                                     | 19                                    |
| JPAC291   | 529623 | 6852994 | 349     | 57       | 24        | 32      | 8             | 1015        | 226         | 22%           | 45                                     | 166                                   | 2                                     | 12                                    |
| JPAC292   | 529700 | 6852989 | 350     | 63       | 24        | 63      | 39            | 1721        | 405         | 24%           | 77                                     | 303                                   | 4                                     | 20                                    |
| including |        |         |         |          | 24        | 36      | 12            | 2568        | 541         | 21%           | 103                                    | 407                                   | 6                                     | 26                                    |
| JPAC293   | 529749 | 6852976 | 350     | 60       | 20        | 60      | 40            | 1684        | 414         | 25%           | 80                                     | 310                                   | 4                                     | 20                                    |
| JPAC294   | 529871 | 6852972 | 350     | 54       | 12        | 54      | 42            | 1788        | 428         | 24%           | 89                                     | 319                                   | 4                                     | 17                                    |
| including |        |         |         |          | 24        | 36      | 12            | 2618        | 590         | 23%           | 123                                    | 439                                   | 5                                     | 23                                    |
| JPAC295   | 529997 | 6852982 | 351     | 43       | 8         | 42      | 34            | 1720        | 455         | 26%           | 89                                     | 343                                   | 4                                     | 19                                    |
| JPAC296   | 530120 | 6852976 | 351     | 31       | 8         | 31      | 23            | 1057        | 262         | 25%           | 53                                     | 195                                   | 3                                     | 12                                    |
| JPAC297   | 530250 | 6852977 | 352     | 48       | 8         | 48      | 40            | 1677        | 439         | 26%           | 84                                     | 329                                   | 6                                     | 22                                    |
| JPAC298   | 530369 | 6852973 | 352     | 53       | 12        | 52      | 40            | 1476        | 359         | 24%           | 75                                     | 268                                   | 3                                     | 14                                    |
| JPAC299   | 529625 | 6853106 | 349     | 56       | 24        | 56      | 32            | 1666        | 444         | 27%           | 85                                     | 332                                   | 5                                     | 24                                    |
| JPAC300   | 529872 | 6853100 | 350     | 66       | 16        | 65      | 49            | 1643        | 436         | 27%           | 84                                     | 328                                   | 4                                     | 20                                    |
| JPAC301   | 530124 | 6853103 | 351     | 34       | 8         | 34      | 26            | 954         | 251         | 26%           | 48                                     | 187                                   | 3                                     | 14                                    |
| JPAC302   | 529620 | 6853230 | 349     | 57       | 12        | 57      | 45            | 1487        | 372         | 25%           | 73                                     | 278                                   | 4                                     | 18                                    |
| including |        |         |         |          | 24        | 36      | 12            | 1908        | 477         | 25%           | 96                                     | 356                                   | 4                                     | 21                                    |
| JPAC303   | 529748 | 6853229 | 350     | 52       | 20        | 52      | 32            | 1830        | 480         | 26%           | 95                                     | 361                                   | 4                                     | 20                                    |
| JPAC304   | 529872 | 6853228 | 350     | 54       | 12        | 28      | 16            | 2138        | 461         | 22%           | 92                                     | 348                                   | 4                                     | 18                                    |
| JPAC305   | 530000 | 6853227 | 351     | 32       |           |         |               |             |             |               |                                        |                                       |                                       | NSI                                   |
| JPAC306   | 530123 | 6853228 | 351     | 27       | 8         | 27      | 19            | 1797        | 474         | 26%           | 93                                     | 360                                   | 4                                     | 18                                    |
| JPAC307   | 530247 | 6853223 | 352     | 24       | 16        | 24      | 8             | 1373        | 289         | 21%           | 61                                     | 213                                   | 2                                     | 12                                    |
| JPAC308   | 530371 | 6853228 | 352     | 42       | 8         | 42      | 34            | 1400        | 317         | 23%           | 62                                     | 230                                   | 4                                     | 22                                    |
| JPAC309   | 529623 | 6853359 | 349     | 41       | 12        | 41      | 29            | 2128        | 582         | 27%           | 110                                    | 441                                   | 5                                     | 26                                    |
| JPAC310   | 529873 | 6853346 | 350     | 33       | 8         | 33      | 25            | 1429        | 383         | 27%           | 72                                     | 291                                   | 4                                     | 17                                    |
| including |        |         |         |          | 24        | 28      | 4             | 2796        | 917         | 33%           | 141                                    | 717                                   | 11                                    | 49                                    |
| JPAC311   | 530125 | 6853349 | 351     | 13       | 8         | 13      | 5             | 649         | 99          | 15%           | 26                                     | 71                                    | <1                                    | 2                                     |
| JPAC312   | 530372 | 6853349 | 352     | 45       | 12        | 45      | 33            | 1740        | 419         | 24%           | 85                                     | 312                                   | 4                                     | 19                                    |

| Hole      | East   | North   | RL<br>m | EOH<br>m | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | MREO<br>ppm | MREO/<br>TREO | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm |
|-----------|--------|---------|---------|----------|-----------|---------|---------------|-------------|-------------|---------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| including |        |         |         |          | 20        | 32      | 12            | 2469        | 593         | 24%           | 120                                    | 448                                   | 4                                     | 20                                    |
| JPAC313   | 529622 | 6853470 | 349     | 39       | 8         | 39      | 31            | 1518        | 402         | 26%           | 81                                     | 300                                   | 4                                     | 18                                    |
| JPAC314   | 529745 | 6853479 | 349     | 50       | 8         | 50      | 42            | 1543        | 398         | 26%           | 77                                     | 296                                   | 4                                     | 22                                    |
| JPAC315   | 529869 | 6853478 | 350     | 26       | 8         | 26      | 18            | 1042        | 264         | 25%           | 51                                     | 198                                   | 3                                     | 13                                    |
| JPAC316   | 529997 | 6853470 | 350     | 33       | 4         | 33      | 29            | 1092        | 306         | 28%           | 57                                     | 233                                   | 3                                     | 14                                    |
| JPAC317   | 530118 | 6853469 | 351     | 24       | 8         | 24      | 16            | 429         | 80          | 19%           | 18                                     | 59                                    | 1                                     | 3                                     |
| JPAC318   | 530249 | 6853477 | 351     | 14       |           |         |               |             |             |               |                                        |                                       |                                       |                                       |
| JPAC319   | 530374 | 6853477 | 352     | 24       | 16        | 24      | 8             | 642         | 151         | 24%           | 31                                     | 111                                   | 1                                     | 8                                     |
| JPAC320   | 529630 | 6853603 | 349     | 50       | 16        | 44      | 28            | 1553        | 407         | 26%           | 81                                     | 305                                   | 4                                     | 18                                    |
| including |        |         |         |          | 20        | 32      | 12            | 2602        | 700         | 27%           | 139                                    | 527                                   | 6                                     | 29                                    |
| JPAC321   | 530124 | 6853598 | 350     | 58       | 8         | 58      | 50            | 1278        | 268         | 21%           | 62                                     | 195                                   | 2                                     | 9                                     |
| including |        |         |         |          | 36        | 52      | 16            | 2038        | 418         | 21%           | 96                                     | 307                                   | 3                                     | 13                                    |
| JPAC322   | 529624 | 6853734 | 348     | 47       | 16        | 47      | 31            | 867         | 223         | 26%           | 46                                     | 164                                   | 2                                     | 11                                    |
| JPAC323   | 529747 | 6853727 | 349     | 38       | 12        | 38      | 26            | 1919        | 544         | 28%           | 104                                    | 411                                   | 5                                     | 24                                    |
| including |        |         |         |          | 24        | 36      | 12            | 2725        | 799         | 29%           | 146                                    | 612                                   | 7                                     | 33                                    |
| JPAC324   | 529872 | 6853725 | 349     | 45       | 8         | 45      | 37            | 1584        | 398         | 25%           | 81                                     | 298                                   | 3                                     | 16                                    |
| JPAC325   | 529998 | 6853731 | 349     | 65       | 60        | 65      | 5             | 912         | 244         | 27%           | 48                                     | 183                                   | 2                                     | 11                                    |
| JPAC326   | 530123 | 6853727 | 350     | 65       | 40        | 65      | 25            | 1468        | 405         | 28%           | 79                                     | 303                                   | 4                                     | 19                                    |
| JPAC327   | 529619 | 6853846 | 348     | 48       | 8         | 48      | 40            | 1294        | 342         | 26%           | 66                                     | 255                                   | 4                                     | 18                                    |
| JPAC328   | 529742 | 6853861 | 348     | 39       | 12        | 39      | 27            | 1949        | 497         | 26%           | 100                                    | 373                                   | 4                                     | 21                                    |
| JPAC329   | 529871 | 6853848 | 349     | 53       | 12        | 53      | 41            | 1566        | 414         | 26%           | 86                                     | 309                                   | 4                                     | 17                                    |
| JPAC330   | 530000 | 6853850 | 349     | 71       | 20        | 71      | 51            | 1248        | 313         | 25%           | 62                                     | 233                                   | 3                                     | 15                                    |
| including |        |         |         |          | 36        | 40      | 4             | 2021        | 463         | 23%           | 93                                     | 341                                   | 5                                     | 25                                    |
| JPAC331   | 529622 | 6853976 | 347     | 57       | 12        | 57      | 45            | 1564        | 401         | 26%           | 77                                     | 300                                   | 4                                     | 20                                    |
| JPAC332   | 529745 | 6853981 | 348     | 55       | 16        | 55      | 39            | 1484        | 374         | 25%           | 78                                     | 280                                   | 3                                     | 14                                    |
| JPAC333   | 529873 | 6853975 | 348     | 61       | 28        | 61      | 33            | 1834        | 441         | 24%           | 89                                     | 328                                   | 4                                     | 20                                    |
| JPAC334   | 530000 | 6853978 | 349     | 66       | 36        | 66      | 30            | 1625        | 379         | 23%           | 80                                     | 280                                   | 4                                     | 17                                    |
| including |        |         |         |          | 48        | 52      | 4             | 2989        | 736         | 25%           | 160                                    | 551                                   | 5                                     | 21                                    |
| JPAC335   | 530248 | 6853463 | 351     | 18       | 12        | 18      | 6             | 984         | 246         | 25%           | 49                                     | 183                                   | 2                                     | 12                                    |
| JPAC336   | 529618 | 6854099 | 347     | 63       | 24        | 63      | 39            | 1784        | 436         | 24%           | 96                                     | 322                                   | 4                                     | 20                                    |
| JPAC337   | 529871 | 6854099 | 348     | 68       | 32        | 68      | 36            | 1158        | 283         | 24%           | 55                                     | 206                                   | 4                                     | 19                                    |
| JPAC338   | 530122 | 6854100 | 349     | 65       | 12        | 65      | 53            | 1878        | 488         | 26%           | 95                                     | 360                                   | 6                                     | 28                                    |
| including |        |         |         |          | 44        | 60      | 16            | 3040        | 819         | 27%           | 146                                    | 607                                   | 11                                    | 56                                    |
| JPAC339   | 529628 | 6854221 | 347     | 71       | 24        | 71      | 47            | 1698        | 428         | 25%           | 88                                     | 318                                   | 4                                     | 19                                    |
| including |        |         |         |          | 32        | 56      | 24            | 2352        | 594         | 25%           | 120                                    | 442                                   | 6                                     | 26                                    |
| JPAC340   | 529748 | 6854229 | 348     | 67       | 16        | 67      | 51            | 1354        | 358         | 26%           | 73                                     | 266                                   | 3                                     | 16                                    |
| including |        |         |         |          | 44        | 56      | 12            | 2198        | 623         | 28%           | 118                                    | 471                                   | 6                                     | 29                                    |
| JPAC341   | 529874 | 6854219 | 348     | 67       | 16        | 67      | 51            | 1606        | 405         | 25%           | 82                                     | 301                                   | 4                                     | 19                                    |
| including |        |         |         |          | 44        | 60      | 16            | 2463        | 600         | 24%           | 114                                    | 450                                   | 6                                     | 31                                    |
| JPAC342   | 530000 | 6854233 | 348     | 67       | 8         | 67      | 59            | 905         | 197         | 22%           | 45                                     | 144                                   | 2                                     | 8                                     |
| including |        |         |         |          | 52        | 67      | 15            | 1563        | 380         | 24%           | 79                                     | 282                                   | 4                                     | 17                                    |
| JPAC343   | 530128 | 6854224 | 349     | 47       | 16        | 47      | 31            | 386         | 70          | 18%           | 17                                     | 51                                    | 1                                     | 3                                     |
| JPAC344   | 529625 | 6854350 | 347     | 57       | 12        | 57      | 45            | 1726        | 447         | 26%           | 90                                     | 330                                   | 5                                     | 23                                    |
| JPAC345   | 529871 | 6854348 | 348     | 40       | 8         | 40      | 32            | 1374        | 340         | 25%           | 71                                     | 250                                   | 3                                     | 16                                    |
| JPAC346   | 530123 | 6854355 | 349     | 24       | 8         | 24      | 16            | 1776        | 445         | 25%           | 91                                     | 330                                   | 4                                     | 20                                    |
| JPAC347   | 529625 | 6854468 | 347     | 54       | 8         | 54      | 46            | 1189        | 309         | 26%           | 62                                     | 229                                   | 3                                     | 16                                    |
| JPAC348   | 529745 | 6854475 | 347     | 46       | 8         | 46      | 38            | 1595        | 387         | 24%           | 79                                     | 282                                   | 4                                     | 21                                    |
| JPAC349   | 529872 | 6854479 | 347     | 36       | 8         | 36      | 28            | 975         | 243         | 25%           | 49                                     | 181                                   | 2                                     | 12                                    |
| JPAC350   | 530000 | 6854473 | 348     | 34       | 8         | 34      | 26            | 1474        | 399         | 27%           | 80                                     | 297                                   | 4                                     | 19                                    |
| JPAC351   | 530124 | 6854471 | 349     | 40       | 8         | 40      | 32            | 1717        | 398         | 23%           | 82                                     | 294                                   | 4                                     | 19                                    |
| JPAC352   | 530246 | 6854471 | 349     | 47       | 8         | 47      | 39            | 1260        | 284         | 23%           | 61                                     | 209                                   | 2                                     | 11                                    |
| JPAC353   | 529623 | 6854603 | 346     | 39       | 8         | 31      | 23            | 1393        | 337         | 24%           | 69                                     | 253                                   | 3                                     | 13                                    |
| JPAC354   | 529871 | 6854600 | 347     | 29       |           |         |               |             |             |               |                                        |                                       |                                       | NSI                                   |
| JPAC355   | 530120 | 6854601 | 349     | 41       | 20        | 41      | 21            | 751         | 167         | 22%           | 35                                     | 124                                   | 1                                     | 7                                     |
| JPAC356   | 530374 | 6854597 | 350     | 72       | 20        | 72      | 52            | 1605        | 401         | 25%           | 82                                     | 300                                   | 3                                     | 16                                    |
| including |        |         |         |          | 40        | 44      | 4             | 2638        | 774         | 29%           | 144                                    | 591                                   | 7                                     | 33                                    |
| JPAC357   | 529621 | 6854725 | 346     | 44       | 16        | 44      | 28            | 823         | 175         | 21%           | 39                                     | 129                                   | 1                                     | 6                                     |
| JPAC358   | 529749 | 6854728 | 347     | 63       | 20        | 63      | 43            | 1264        | 314         | 25%           | 63                                     | 235                                   | 3                                     | 14                                    |
| including |        |         |         |          | 40        | 48      | 8             | 2215        | 515         | 23%           | 101                                    | 388                                   | 5                                     | 23                                    |
| JPAC359   | 529872 | 6854723 | 347     | 52       | 24        | 52      | 28            | 1863        | 433         | 23%           | 86                                     | 325                                   | 4                                     | 19                                    |
| including |        |         |         |          | 32        | 36      | 4             | 3494        | 722         | 21%           | 144                                    | 540                                   | 7                                     | 32                                    |
| JPAC360   | 530000 | 6854721 | 348     | 39       | 28        | 39      | 11            | 1504        | 366         | 24%           | 81                                     | 270                                   | 3                                     | 14                                    |
| JPAC361   | 530123 | 6854722 | 348     | 57       | 32        | 57      | 25            | 1398        | 366         | 26%           | 76                                     | 272                                   | 3                                     | 16                                    |
| JPAC362   | 530249 | 6854722 | 349     | 68       | 24        | 68      | 44            | 1724        | 488         | 28%           | 99                                     | 366                                   | 4                                     | 19                                    |
| including |        |         |         |          | 44        | 52      | 8             | 2681        | 783         | 29%           | 154                                    | 594                                   | 6                                     | 29                                    |
| JPAC363   | 530371 | 6854723 | 350     | 48       | 28        | 48      | 20            | 1631        | 471         | 29%           | 97                                     | 353                                   | 4                                     | 18                                    |
| JPAC364   | 530498 | 6854722 | 350     | 63       | 8         | 63      | 55            | 1965        | 543         | 28%           | 106                                    | 404                                   | 5                                     | 28                                    |
| including |        |         |         |          | 12        | 20      | 8             | 2808        | 818         | 29%           | 163                                    | 612                                   | 8                                     | 36                                    |
| JPAC365   | 529748 | 6854848 | 347     | 72       | 36        | 64      | 28            | 1171        | 294         | 25%           | 59                                     | 221                                   | 2                                     | 12                                    |

| Hole      | East   | North   | RL<br>m | EOH<br>m | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | MREO<br>ppm | MREO/<br>TREO | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm |
|-----------|--------|---------|---------|----------|-----------|---------|---------------|-------------|-------------|---------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| JPAC366   | 529868 | 6854846 | 347     | 65       | 32        | 65      | 33            | 1875        | 457         | 24%           | 96                                     | 344                                   | 3                                     | 15                                    |
| JPAC367   | 530124 | 6854850 | 348     | 50       | 24        | 50      | 26            | 834         | 207         | 25%           | 42                                     | 154                                   | 2                                     | 10                                    |
| JPAC368   | 530372 | 6854851 | 349     | 54       | 12        | 54      | 42            | 1881        | 502         | 27%           | 101                                    | 376                                   | 5                                     | 21                                    |
| JPAC369   | 530623 | 6854843 | 351     | 10       |           |         |               |             |             |               |                                        |                                       |                                       | NSI                                   |
| JPAC370   | 529750 | 6854976 | 347     | 59       | 20        | 59      | 39            | 911         | 210         | 23%           | 44                                     | 156                                   | 2                                     | 8                                     |
| JPAC371   | 529873 | 6854977 | 347     | 66       | 12        | 66      | 54            | 1608        | 413         | 26%           | 83                                     | 310                                   | 3                                     | 17                                    |
| JPAC372   | 529999 | 6854977 | 348     | 48       | 32        | 48      | 16            | 1717        | 473         | 28%           | 93                                     | 359                                   | 4                                     | 18                                    |
| JPAC373   | 530124 | 6854976 | 348     | 45       | 32        | 40      | 8             | 1240        | 284         | 23%           | 44                                     | 189                                   | 7                                     | 44                                    |
| JPAC374   | 530245 | 6854977 | 348     | 42       | 12        | 42      | 30            | 1488        | 383         | 26%           | 73                                     | 286                                   | 4                                     | 21                                    |
| JPAC375   | 530372 | 6854975 | 349     | 19       | 8         | 19      | 11            | 1160        | 271         | 23%           | 54                                     | 204                                   | 2                                     | 11                                    |
| JPAC376   | 530500 | 6854971 | 350     | 12       | 8         | 12      | 4             | 586         | 150         | 26%           | 30                                     | 113                                   | 1                                     | 6                                     |
| JPAC377   | 530624 | 6854976 | 350     | 10       |           |         |               |             |             |               |                                        |                                       |                                       | NSI                                   |
| JPAC378   | 530748 | 6854974 | 350     | 38       | 8         | 38      | 30            | 780         | 169         | 22%           | 38                                     | 126                                   | 1                                     | 5                                     |
| JPAC379   | 529867 | 6855096 | 347     | 40       | 12        | 40      | 28            | 1506        | 365         | 24%           | 76                                     | 273                                   | 3                                     | 15                                    |
| JPAC380   | 530120 | 6855099 | 348     | 26       | 8         | 26      | 18            | 898         | 243         | 27%           | 48                                     | 185                                   | 2                                     | 9                                     |
| JPAC381   | 530374 | 6855101 | 349     | 39       | 20        | 38      | 18            | 1191        | 262         | 22%           | 57                                     | 195                                   | 2                                     | 9                                     |
| JPAC382   | 530622 | 6855099 | 350     | 34       | 8         | 33      | 25            | 1252        | 221         | 18%           | 49                                     | 165                                   | 1                                     | 6                                     |
| including |        |         |         |          | 8         | 12      | 4             | 2558        | 355         | 14%           | 83                                     | 264                                   | 2                                     | 7                                     |
| JPAC383   | 529998 | 6855225 | 347     | 38       | 12        | 38      | 26            | 1161        | 295         | 25%           | 60                                     | 221                                   | 2                                     | 12                                    |
| JPAC384   | 530120 | 6855222 | 348     | 35       | 28        | 35      | 7             | 1082        | 257         | 24%           | 54                                     | 192                                   | 2                                     | 9                                     |
| JPAC385   | 530248 | 6855228 | 348     | 54       | 40        | 52      | 12            | 1099        | 292         | 27%           | 63                                     | 219                                   | 2                                     | 8                                     |
| JPAC386   | 530370 | 6855228 | 349     | 78       | 24        | 78      | 54            | 927         | 205         | 22%           | 45                                     | 151                                   | 1                                     | 7                                     |
| JPAC387   | 530497 | 6855227 | 349     | 60       | 8         | 60      | 52            | 1499        | 377         | 25%           | 74                                     | 283                                   | 3                                     | 16                                    |
| including |        |         |         |          | 16        | 24      | 8             | 2359        | 637         | 27%           | 118                                    | 488                                   | 6                                     | 26                                    |
| JPAC388   | 530621 | 6855226 | 350     | 55       | 12        | 54      | 42            | 2338        | 560         | 24%           | 116                                    | 418                                   | 5                                     | 23                                    |
| including |        |         |         |          | 12        | 24      | 12            | 3105        | 719         | 23%           | 149                                    | 534                                   | 6                                     | 29                                    |
| JPAC389   | 530747 | 6855226 | 350     | 33       | 8         | 33      | 25            | 2218        | 466         | 21%           | 95                                     | 350                                   | 4                                     | 18                                    |
| including |        |         |         |          | 12        | 16      | 4             | 4346        | 643         | 15%           | 129                                    | 478                                   | 7                                     | 30                                    |
| JPAC390   | 529874 | 6855351 | 347     | 62       | 20        | 62      | 42            | 1323        | 324         | 24%           | 64                                     | 241                                   | 3                                     | 15                                    |
| JPAC391   | 530123 | 6855350 | 347     | 51       | 17        | 50      | 33            | 1075        | 256         | 24%           | 55                                     | 190                                   | 2                                     | 10                                    |
| including |        |         |         |          | 40        | 48      | 8             | 2052        | 453         | 22%           | 92                                     | 339                                   | 4                                     | 19                                    |
| JPAC392   | 530375 | 6855350 | 348     | 69       | 8         | 69      | 61            | 1587        | 391         | 25%           | 81                                     | 292                                   | 3                                     | 15                                    |
| including |        |         |         |          | 32        | 40      | 8             | 2384        | 608         | 26%           | 123                                    | 457                                   | 5                                     | 23                                    |
| JPAC393   | 530623 | 6855349 | 349     | 72       | 16        | 72      | 56            | 2642        | 692         | 26%           | 141                                    | 524                                   | 5                                     | 23                                    |
| including |        |         |         |          | 36        | 56      | 20            | 3465        | 889         | 26%           | 178                                    | 678                                   | 6                                     | 27                                    |
| JPAC394   | 529748 | 6855478 | 346     | 91       | 20        | 91      | 71            | 1620        | 383         | 24%           | 76                                     | 288                                   | 3                                     | 16                                    |
| including |        |         |         |          | 12        | 36      | 24            | 2407        | 528         | 22%           | 103                                    | 398                                   | 5                                     | 22                                    |
| JPAC395   | 529870 | 6855477 | 346     | 83       | 16        | 83      | 67            | 1067        | 265         | 25%           | 53                                     | 199                                   | 2                                     | 12                                    |
| JPAC396   | 529996 | 6855477 | 347     | 58       | 12        | 58      | 46            | 1966        | 505         | 26%           | 102                                    | 383                                   | 4                                     | 17                                    |
| including |        |         |         |          | 28        | 36      | 8             | 2861        | 774         | 27%           | 151                                    | 588                                   | 6                                     | 29                                    |
| JPAC397   | 530121 | 6855477 | 347     | 89       | 16        | 89      | 73            | 2400        | 620         | 26%           | 124                                    | 471                                   | 5                                     | 20                                    |
| including |        |         |         |          | 24        | 56      | 32            | 3551        | 931         | 26%           | 186                                    | 708                                   | 7                                     | 31                                    |
| JPAC398   | 530245 | 6855478 | 348     | 54       | 28        | 54      | 26            | 1159        | 256         | 22%           | 54                                     | 186                                   | 2                                     | 10                                    |
| JPAC399   | 530371 | 6855472 | 348     | 75       | 36        | 68      | 32            | 1194        | 243         | 20%           | 53                                     | 181                                   | 2                                     | 8                                     |
| JPAC400   | 530498 | 6855476 | 348     | 70       | 36        | 70      | 34            | 1915        | 438         | 23%           | 90                                     | 328                                   | 3                                     | 17                                    |
| including |        |         |         |          | 52        | 64      | 12            | 3206        | 719         | 22%           | 143                                    | 544                                   | 5                                     | 26                                    |
| JPAC401   | 530620 | 6855474 | 349     | 82       | 20        | 82      | 62            | 2138        | 508         | 24%           | 100                                    | 380                                   | 5                                     | 25                                    |
| including |        |         |         |          | 32        | 56      | 24            | 2930        | 668         | 23%           | 129                                    | 492                                   | 7                                     | 40                                    |
| JPAC402   | 529626 | 6855601 | 345     | 74       | 16        | 74      | 58            | 1469        | 381         | 26%           | 77                                     | 285                                   | 3                                     | 15                                    |
| JPAC403   | 529872 | 6855724 | 346     | 28       | 0         | 24      | 24            | 1754        | 439         | 25%           | 91                                     | 330                                   | 3                                     | 15                                    |
| JPAC404   | 529998 | 6855727 | 346     | 14       | 4         | 14      | 10            | 1301        | 335         | 26%           | 66                                     | 254                                   | 3                                     | 13                                    |
| JPAC405   | 530123 | 6855725 | 347     | 6        |           |         |               |             |             |               |                                        |                                       |                                       | NSI                                   |
| JPAC406   | 530250 | 6855728 | 347     | 51       | 4         | 48      | 44            | 1832        | 439         | 24%           | 87                                     | 330                                   | 4                                     | 18                                    |
| including |        |         |         |          | 12        | 24      | 12            | 2601        | 552         | 21%           | 117                                    | 413                                   | 4                                     | 19                                    |
| JPAC407   | 530371 | 6855727 | 348     | 42       | 12        | 42      | 30            | 1397        | 346         | 25%           | 71                                     | 258                                   | 3                                     | 14                                    |

Notes: Coordinates MGA Zone 50 GDA94. All holes drilled vertically. TREO represents the sum of 14 Rare Earth Elements excluding Promethium plus Yttrium expressed as oxides. MREO represents the sum of the Neodymium, Praseodymium, Dysprosium and Terbium expressed as oxides See Table Two for complete REE assay listing. NSI = no significant intersection.

Table Two: Jupiter Drilling REE, Th and U assays.

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC263 | 4         | 8       | 4             | 401         | 82                                    | 157                     | 22                                     | 71                                    | 10                                    | 2.4                                   | 9                                     | 1.1                                   | 5.6                                   | 1.1                                   | 2.9                                   | 0.4                                   | 2.8                                   | 0.5                                   | 35                                   | 27                                    | 22        | 2        |
| JPAC263 | 8         | 12      | 4             | 805         | 150                                   | 386                     | 40                                     | 136                                   | 21                                    | 4.7                                   | 16                                    | 1.6                                   | 7.9                                   | 1.3                                   | 3.2                                   | 0.4                                   | 2.1                                   | 0.3                                   | 37                                   | 35                                    | 23        | 3        |
| JPAC263 | 12        | 16      | 4             | 2122        | 409                                   | 969                     | 119                                    | 401                                   | 59                                    | 13.3                                  | 41                                    | 4.2                                   | 19.2                                  | 2.8                                   | 6.6                                   | 0.8                                   | 3.7                                   | 0.5                                   | 73                                   | 43                                    | 30        | 3        |
| JPAC263 | 16        | 20      | 4             | 1351        | 251                                   | 630                     | 75                                     | 259                                   | 38                                    | 8.5                                   | 26                                    | 2.7                                   | 12.2                                  | 1.8                                   | 3.7                                   | 0.5                                   | 2.7                                   | 0.4                                   | 40                                   | 35                                    | 23        | 4        |
| JPAC263 | 20        | 24      | 4             | 1659        | 284                                   | 759                     | 90                                     | 328                                   | 51                                    | 11.9                                  | 37                                    | 3.8                                   | 18                                    | 2.8                                   | 5.7                                   | 0.7                                   | 3.5                                   | 0.6                                   | 64                                   | 40                                    | 29        | 5        |
| JPAC263 | 24        | 28      | 4             | 1194        | 208                                   | 552                     | 64                                     | 222                                   | 34                                    | 8.1                                   | 25                                    | 2.7                                   | 13.3                                  | 2.2                                   | 5.3                                   | 0.7                                   | 4                                     | 0.6                                   | 54                                   | 32                                    | 20        | 6        |
| JPAC263 | 28        | 32      | 4             | 1397        | 209                                   | 500                     | 58                                     | 202                                   | 33                                    | 8.4                                   | 31                                    | 4.4                                   | 29.2                                  | 6.8                                   | 22.3                                  | 3.8                                   | 24.5                                  | 4.3                                   | 259                                  | 30                                    | 20        | 5        |
| JPAC263 | 32        | 36      | 4             | 1394        | 214                                   | 527                     | 71                                     | 267                                   | 46                                    | 11.3                                  | 38                                    | 4.3                                   | 22.3                                  | 4.5                                   | 12.3                                  | 1.9                                   | 10.8                                  | 1.9                                   | 163                                  | 28                                    | 18        | 5        |
| JPAC263 | 36        | 40      | 4             | 905         | 172                                   | 378                     | 47                                     | 164                                   | 26                                    | 6.2                                   | 20                                    | 2.2                                   | 10.9                                  | 2                                     | 4.8                                   | 0.7                                   | 3.9                                   | 0.6                                   | 67                                   | 26                                    | 15        | 3        |
| JPAC263 | 40        | 44      | 4             | 959         | 182                                   | 413                     | 50                                     | 174                                   | 26                                    | 6.3                                   | 21                                    | 2.3                                   | 11.3                                  | 2                                     | 5.1                                   | 0.8                                   | 4.2                                   | 0.7                                   | 61                                   | 26                                    | 16        | 3        |
| JPAC263 | 44        | 48      | 4             | 840         | 158                                   | 360                     | 45                                     | 155                                   | 24                                    | 5.7                                   | 18                                    | 1.9                                   | 9.6                                   | 1.7                                   | 4.5                                   | 0.6                                   | 3.6                                   | 0.5                                   | 53                                   | 27                                    | 14        | 3        |
| JPAC263 | 48        | 51      | 3             | 948         | 183                                   | 409                     | 49                                     | 172                                   | 26                                    | 6                                     | 20                                    | 2.1                                   | 10.7                                  | 2                                     | 4.8                                   | 0.7                                   | 4.4                                   | 0.6                                   | 59                                   | 28                                    | 14        | 2        |
| JPAC264 | 8         | 12      | 4             | 118         | 30                                    | 43                      | 6                                      | 20                                    | 2                                     | 0.7                                   | 2                                     | 0.3                                   | 1.7                                   | 0.3                                   | 0.8                                   | 0.1                                   | 0.8                                   | 0.1                                   | 9                                    | 21                                    | 15        | 2        |
| JPAC264 | 12        | 16      | 4             | 1172        | 260                                   | 516                     | 63                                     | 209                                   | 30                                    | 6.9                                   | 21                                    | 2.2                                   | 10.1                                  | 1.6                                   | 3.7                                   | 0.5                                   | 2.3                                   | 0.4                                   | 46                                   | 49                                    | 34        | 3        |
| JPAC264 | 16        | 20      | 4             | 1494        | 339                                   | 639                     | 86                                     | 283                                   | 40                                    | 8.6                                   | 25                                    | 2.6                                   | 11.8                                  | 1.8                                   | 4.3                                   | 0.5                                   | 2.6                                   | 0.4                                   | 50                                   | 60                                    | 38        | 3        |
| JPAC264 | 20        | 24      | 4             | 1485        | 296                                   | 682                     | 81                                     | 275                                   | 42                                    | 8.4                                   | 26                                    | 2.7                                   | 13.1                                  | 2                                     | 4.7                                   | 0.5                                   | 3                                     | 0.4                                   | 50                                   | 52                                    | 47        | 2        |
| JPAC264 | 24        | 28      | 4             | 1082        | 216                                   | 464                     | 63                                     | 213                                   | 31                                    | 6.8                                   | 21                                    | 2.2                                   | 10.4                                  | 1.7                                   | 3.9                                   | 0.5                                   | 2.6                                   | 0.3                                   | 46                                   | 48                                    | 24        | 2        |
| JPAC264 | 28        | 32      | 4             | 1683        | 317                                   | 742                     | 101                                    | 335                                   | 49                                    | 10.5                                  | 31                                    | 3.4                                   | 16.1                                  | 2.6                                   | 6.2                                   | 0.7                                   | 3.8                                   | 0.5                                   | 66                                   | 45                                    | 32        | 4        |
| JPAC264 | 32        | 36      | 4             | 1949        | 314                                   | 898                     | 108                                    | 383                                   | 56                                    | 13.1                                  | 41                                    | 4.3                                   | 21.3                                  | 3.7                                   | 8.6                                   | 1                                     | 4.8                                   | 0.7                                   | 92                                   | 45                                    | 32        | 4        |
| JPAC264 | 36        | 40      | 4             | 1747        | 270                                   | 767                     | 102                                    | 383                                   | 61                                    | 13.1                                  | 40                                    | 4.3                                   | 20                                    | 3.3                                   | 6.9                                   | 0.9                                   | 4.5                                   | 0.6                                   | 72                                   | 34                                    | 17        | 3        |
| JPAC264 | 40        | 44      | 4             | 960         | 153                                   | 461                     | 53                                     | 188                                   | 29                                    | 6.6                                   | 19                                    | 2                                     | 8.8                                   | 1.4                                   | 3.3                                   | 0.4                                   | 2.9                                   | 0.4                                   | 33                                   | 35                                    | 18        | 4        |
| JPAC264 | 44        | 48      | 4             | 659         | 114                                   | 279                     | 35                                     | 131                                   | 21                                    | 4.9                                   | 16                                    | 1.6                                   | 8                                     | 1.4                                   | 3.6                                   | 0.6                                   | 3.6                                   | 0.5                                   | 40                                   | 31                                    | 13        | 4        |
| JPAC264 | 48        | 52      | 4             | 1043        | 146                                   | 360                     | 51                                     | 202                                   | 37                                    | 9.3                                   | 35                                    | 4.3                                   | 22.4                                  | 4.5                                   | 12.1                                  | 1.9                                   | 11.5                                  | 1.9                                   | 146                                  | 27                                    | 14        | 8        |
| JPAC264 | 52        | 56      | 4             | 1122        | 178                                   | 453                     | 58                                     | 206                                   | 32                                    | 7.6                                   | 28                                    | 3.2                                   | 16.3                                  | 3.3                                   | 8.7                                   | 1.3                                   | 7.7                                   | 1.1                                   | 117                                  | 27                                    | 16        | 4        |
| JPAC264 | 56        | 57      | 1             | 928         | 163                                   | 394                     | 50                                     | 177                                   | 27                                    | 6.3                                   | 21                                    | 2.2                                   | 11.6                                  | 2.1                                   | 5.1                                   | 0.7                                   | 4.1                                   | 0.6                                   | 63                                   | 30                                    | 14        | 3        |
| JPAC265 | 8         | 12      | 4             | 255         | 67                                    | 93                      | 15                                     | 46                                    | 6                                     | 1.5                                   | 5                                     | 0.6                                   | 2.8                                   | 0.5                                   | 1.4                                   | 0.2                                   | 1.4                                   | 0.2                                   | 15                                   | 28                                    | 20        | 2        |
| JPAC265 | 12        | 16      | 4             | 1154        | 250                                   | 496                     | 64                                     | 206                                   | 30                                    | 6.6                                   | 20                                    | 2.2                                   | 10.8                                  | 2.1                                   | 4.9                                   | 0.7                                   | 3.6                                   | 0.4                                   | 57                                   | 44                                    | 27        | 3        |
| JPAC265 | 16        | 20      | 4             | 1475        | 293                                   | 655                     | 84                                     | 278                                   | 37                                    | 8.5                                   | 25                                    | 2.7                                   | 13.8                                  | 2.3                                   | 5.5                                   | 0.7                                   | 3.7                                   | 0.5                                   | 66                                   | 45                                    | 26        | 2        |
| JPAC265 | 20        | 24      | 4             | 1613        | 314                                   | 688                     | 95                                     | 328                                   | 47                                    | 10.3                                  | 31                                    | 3.4                                   | 16                                    | 2.6                                   | 6.3                                   | 0.8                                   | 4.5                                   | 0.7                                   | 66                                   | 45                                    | 23        | 2        |
| JPAC265 | 24        | 28      | 4             | 1483        | 276                                   | 662                     | 86                                     | 292                                   | 44                                    | 9.2                                   | 29                                    | 3                                     | 14.6                                  | 2.2                                   | 5                                     | 0.7                                   | 3.7                                   | 0.6                                   | 57                                   | 45                                    | 25        | 2        |
| JPAC265 | 28        | 32      | 4             | 1564        | 280                                   | 737                     | 90                                     | 314                                   | 45                                    | 9.1                                   | 26                                    | 2.6                                   | 11.1                                  | 1.9                                   | 4.1                                   | 0.5                                   | 3.3                                   | 0.5                                   | 40                                   | 38                                    | 22        | 2        |
| JPAC265 | 32        | 36      | 4             | 1046        | 188                                   | 458                     | 57                                     | 217                                   | 31                                    | 6.7                                   | 20                                    | 2                                     | 8.8                                   | 1.6                                   | 4                                     | 0.6                                   | 4.1                                   | 0.7                                   | 46                                   | 29                                    | 16        | 4        |
| JPAC265 | 36        | 40      | 4             | 934         | 146                                   | 351                     | 44                                     | 163                                   | 30                                    | 6.9                                   | 23                                    | 3                                     | 16.5                                  | 3.1                                   | 9.8                                   | 1.6                                   | 10.3                                  | 1.6                                   | 125                                  | 28                                    | 15        | 6        |
| JPAC265 | 40        | 44      | 4             | 1348        | 179                                   | 439                     | 57                                     | 219                                   | 44                                    | 11.2                                  | 43                                    | 6                                     | 32.8                                  | 6.7                                   | 20                                    | 3                                     | 17.8                                  | 2.9                                   | 267                                  | 28                                    | 16        | 6        |
| JPAC265 | 44        | 48      | 4             | 907         | 160                                   | 383                     | 48                                     | 175                                   | 30                                    | 6.6                                   | 19                                    | 2.3                                   | 10.8                                  | 1.9                                   | 4.9                                   | 0.6                                   | 4.1                                   | 0.6                                   | 61                                   | 26                                    | 14        | 4        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC266 | 20        | 24      | 4             | 113         | 30                                    | 46                      | 5                                      | 17                                    | 3                                     | 0.6                                   | 2                                     | 0.2                                   | 1.1                                   | 0.2                                   | 0.6                                   | 0.1                                   | 0.6                                   | 0.1                                   | 6                                    | 35                                    | 29        | 2        |
| JPAC266 | 24        | 28      | 4             | 321         | 134                                   | 118                     | 15                                     | 35                                    | 4                                     | 0.8                                   | 3                                     | 0.3                                   | 1.5                                   | 0.3                                   | 0.7                                   | 0.1                                   | 0.9                                   | 0.1                                   | 8                                    | 54                                    | 34        | 3        |
| JPAC266 | 28        | 32      | 4             | 1608        | 660                                   | 597                     | 92                                     | 206                                   | 17                                    | 3                                     | 7                                     | 0.9                                   | 4.3                                   | 0.7                                   | 2                                     | 0.3                                   | 1.8                                   | 0.3                                   | 16                                   | 44                                    | 31        | 4        |
| JPAC266 | 32        | 36      | 4             | 4613        | 1115                                  | 2506                    | 221                                    | 614                                   | 58                                    | 9.9                                   | 25                                    | 2.8                                   | 11.1                                  | 1.7                                   | 3.7                                   | 0.5                                   | 2.9                                   | 0.4                                   | 42                                   | 52                                    | 37        | 4        |
| JPAC266 | 36        | 40      | 4             | 2287        | 444                                   | 1077                    | 119                                    | 421                                   | 64                                    | 12.6                                  | 38                                    | 4.2                                   | 19.2                                  | 3                                     | 6.8                                   | 0.7                                   | 4.1                                   | 0.5                                   | 73                                   | 48                                    | 49        | 5        |
| JPAC266 | 40        | 44      | 4             | 1396        | 260                                   | 636                     | 73                                     | 271                                   | 43                                    | 9                                     | 25                                    | 2.8                                   | 12.5                                  | 1.9                                   | 5                                     | 0.6                                   | 3.9                                   | 0.5                                   | 53                                   | 42                                    | 44        | 8        |
| JPAC266 | 44        | 48      | 4             | 2095        | 337                                   | 911                     | 111                                    | 442                                   | 77                                    | 15.6                                  | 45                                    | 4.9                                   | 20.8                                  | 3.5                                   | 8.9                                   | 1.3                                   | 8.2                                   | 1.1                                   | 108                                  | 38                                    | 25        | 6        |
| JPAC266 | 48        | 52      | 4             | 1877        | 265                                   | 667                     | 89                                     | 360                                   | 69                                    | 16.2                                  | 55                                    | 7                                     | 35.8                                  | 6.9                                   | 20.4                                  | 2.9                                   | 17.9                                  | 3                                     | 263                                  | 35                                    | 27        | 5        |
| JPAC266 | 52        | 56      | 4             | 1094        | 162                                   | 431                     | 57                                     | 220                                   | 41                                    | 8.6                                   | 29                                    | 3.4                                   | 16.5                                  | 2.9                                   | 8.3                                   | 1.2                                   | 7.1                                   | 1.1                                   | 106                                  | 30                                    | 15        | 4        |
| JPAC266 | 56        | 60      | 4             | 1055        | 158                                   | 425                     | 58                                     | 225                                   | 40                                    | 8.2                                   | 26                                    | 3.2                                   | 15.1                                  | 2.5                                   | 6.8                                   | 0.9                                   | 5                                     | 0.7                                   | 81                                   | 26                                    | 13        | 4        |
| JPAC266 | 60        | 63      | 3             | 1303        | 220                                   | 556                     | 71                                     | 266                                   | 44                                    | 9.1                                   | 28                                    | 3.2                                   | 14.7                                  | 2.4                                   | 6.5                                   | 0.8                                   | 4.9                                   | 0.6                                   | 77                                   | 28                                    | 23        | 4        |
| JPAC267 | 12        | 16      | 4             | 735         | 171                                   | 335                     | 37                                     | 118                                   | 17                                    | 3.6                                   | 10                                    | 1                                     | 4.9                                   | 0.9                                   | 2.8                                   | 0.4                                   | 2.7                                   | 0.4                                   | 31                                   | 27                                    | 15        | 3        |
| JPAC268 | 12        | 16      | 4             | 584         | 135                                   | 295                     | 30                                     | 89                                    | 11                                    | 1.9                                   | 5                                     | 0.5                                   | 2.2                                   | 0.4                                   | 1.1                                   | 0.2                                   | 1.1                                   | 0.2                                   | 12                                   | 29                                    | 17        | 3        |
| JPAC269 | 4         | 8       | 4             | 187         | 38                                    | 90                      | 8                                      | 25                                    | 4                                     | 0.9                                   | 3                                     | 0.4                                   | 2                                     | 0.4                                   | 1                                     | 0.2                                   | 1.1                                   | 0.2                                   | 12                                   | 23                                    | 18        | 2        |
| JPAC269 | 8         | 12      | 4             | 556         | 119                                   | 240                     | 30                                     | 103                                   | 16                                    | 3.3                                   | 10                                    | 1.2                                   | 5.1                                   | 0.9                                   | 2.5                                   | 0.3                                   | 1.7                                   | 0.2                                   | 24                                   | 31                                    | 16        | 3        |
| JPAC269 | 12        | 16      | 4             | 1826        | 330                                   | 754                     | 95                                     | 384                                   | 70                                    | 14.9                                  | 46                                    | 5.1                                   | 22.5                                  | 3.5                                   | 8                                     | 1                                     | 5.3                                   | 0.7                                   | 87                                   | 46                                    | 28        | 3        |
| JPAC269 | 16        | 20      | 4             | 1919        | 332                                   | 822                     | 102                                    | 429                                   | 73                                    | 14.6                                  | 40                                    | 4.2                                   | 17.3                                  | 2.6                                   | 6.4                                   | 0.8                                   | 4.4                                   | 0.6                                   | 70                                   | 39                                    | 24        | 3        |
| JPAC269 | 20        | 24      | 4             | 1436        | 246                                   | 603                     | 73                                     | 289                                   | 55                                    | 11.3                                  | 32                                    | 3.4                                   | 15.1                                  | 2.6                                   | 7.5                                   | 1                                     | 6.9                                   | 1                                     | 89                                   | 32                                    | 20        | 6        |
| JPAC269 | 24        | 28      | 4             | 1191        | 187                                   | 435                     | 55                                     | 212                                   | 41                                    | 10.1                                  | 35                                    | 4.5                                   | 23.6                                  | 4.6                                   | 12.1                                  | 1.7                                   | 10                                    | 1.5                                   | 159                                  | 28                                    | 20        | 5        |
| JPAC269 | 28        | 30      | 2             | 1055        | 192                                   | 442                     | 55                                     | 204                                   | 35                                    | 7.1                                   | 23                                    | 2.6                                   | 12.9                                  | 2.1                                   | 5.9                                   | 0.7                                   | 4.3                                   | 0.6                                   | 69                                   | 29                                    | 19        | 4        |
| JPAC270 | 4         | 8       | 4             | 169         | 33                                    | 82                      | 7                                      | 23                                    | 4                                     | 0.9                                   | 3                                     | 0.4                                   | 2.2                                   | 0.4                                   | 1.2                                   | 0.2                                   | 1.2                                   | 0.2                                   | 12                                   | 25                                    | 26        | 2        |
| JPAC270 | 8         | 12      | 4             | 666         | 131                                   | 284                     | 38                                     | 124                                   | 20                                    | 4.1                                   | 13                                    | 1.6                                   | 7.6                                   | 1.2                                   | 3.2                                   | 0.4                                   | 2.3                                   | 0.3                                   | 37                                   | 30                                    | 21        | 3        |
| JPAC270 | 12        | 16      | 4             | 2781        | 513                                   | 1173                    | 170                                    | 596                                   | 83                                    | 15.6                                  | 46                                    | 5.3                                   | 25.1                                  | 4.5                                   | 10.9                                  | 1.3                                   | 6                                     | 0.7                                   | 131                                  | 53                                    | 40        | 3        |
| JPAC270 | 16        | 20      | 4             | 2543        | 430                                   | 1044                    | 155                                    | 607                                   | 92                                    | 15.7                                  | 46                                    | 4.9                                   | 22.5                                  | 3.7                                   | 8.4                                   | 0.9                                   | 5.1                                   | 0.5                                   | 108                                  | 53                                    | 35        | 3        |
| JPAC270 | 20        | 24      | 4             | 2640        | 462                                   | 1077                    | 149                                    | 612                                   | 100                                   | 18.2                                  | 53                                    | 5.8                                   | 26.4                                  | 4.1                                   | 9                                     | 1.1                                   | 5.2                                   | 0.6                                   | 117                                  | 53                                    | 37        | 4        |
| JPAC270 | 24        | 28      | 4             | 2482        | 421                                   | 1112                    | 126                                    | 490                                   | 85                                    | 17                                    | 51                                    | 6.3                                   | 26.7                                  | 4.5                                   | 10.9                                  | 1.3                                   | 6                                     | 0.7                                   | 126                                  | 53                                    | 40        | 5        |
| JPAC270 | 28        | 32      | 4             | 1974        | 333                                   | 871                     | 102                                    | 395                                   | 68                                    | 14.3                                  | 41                                    | 4.9                                   | 22.7                                  | 3.7                                   | 9                                     | 1                                     | 5                                     | 0.6                                   | 103                                  | 48                                    | 35        | 5        |
| JPAC270 | 32        | 36      | 4             | 1537        | 276                                   | 689                     | 78                                     | 301                                   | 51                                    | 10.4                                  | 30                                    | 3.7                                   | 16                                    | 2.6                                   | 6.2                                   | 0.8                                   | 4.6                                   | 0.6                                   | 68                                   | 46                                    | 29        | 7        |
| JPAC270 | 36        | 40      | 4             | 2034        | 349                                   | 875                     | 93                                     | 371                                   | 74                                    | 16.2                                  | 52                                    | 6.3                                   | 28.9                                  | 5.2                                   | 13                                    | 1.6                                   | 9.7                                   | 1.4                                   | 139                                  | 51                                    | 24        | 8        |
| JPAC270 | 40        | 44      | 4             | 2160        | 325                                   | 790                     | 91                                     | 358                                   | 65                                    | 15.3                                  | 60                                    | 8.3                                   | 43                                    | 9                                     | 28.4                                  | 3.9                                   | 24.9                                  | 4.2                                   | 335                                  | 41                                    | 21        | 6        |
| JPAC270 | 44        | 48      | 4             | 1498        | 205                                   | 542                     | 63                                     | 252                                   | 45                                    | 10.4                                  | 39                                    | 5.2                                   | 28.3                                  | 6.2                                   | 19.6                                  | 3                                     | 18.9                                  | 3.3                                   | 257                                  | 32                                    | 22        | 5        |
| JPAC270 | 48        | 52      | 4             | 1083        | 186                                   | 447                     | 55                                     | 208                                   | 36                                    | 7.8                                   | 24                                    | 3.1                                   | 14.4                                  | 2.6                                   | 6.9                                   | 0.9                                   | 5.2                                   | 0.7                                   | 85                                   | 28                                    | 19        | 4        |
| JPAC270 | 52        | 54      | 2             | 1039        | 198                                   | 450                     | 53                                     | 195                                   | 32                                    | 6.4                                   | 20                                    | 2.5                                   | 11.4                                  | 1.9                                   | 5.1                                   | 0.7                                   | 3.9                                   | 0.5                                   | 60                                   | 25                                    | 16        | 3        |
| JPAC271 | 8         | 12      | 4             | 202         | 54                                    | 85                      | 9                                      | 28                                    | 4                                     | 0.9                                   | 3                                     | 0.5                                   | 2                                     | 0.4                                   | 1.2                                   | 0.1                                   | 1.3                                   | 0.2                                   | 13                                   | 65                                    | 41        | 3        |
| JPAC271 | 12        | 16      | 4             | 712         | 204                                   | 307                     | 35                                     | 106                                   | 16                                    | 3                                     | 9                                     | 1                                     | 4.9                                   | 0.8                                   | 2.1                                   | 0.3                                   | 1.7                                   | 0.2                                   | 22                                   | 62                                    | 47        | 3        |
| JPAC271 | 16        | 20      | 4             | 1258        | 327                                   | 575                     | 58                                     | 185                                   | 28                                    | 6.2                                   | 17                                    | 2.1                                   | 9.3                                   | 1.5                                   | 4                                     | 0.5                                   | 3                                     | 0.5                                   | 41                                   | 50                                    | 39        | 4        |
| JPAC271 | 20        | 24      | 4             | 575         | 237                                   | 241                     | 22                                     | 52                                    | 6                                     | 1.5                                   | 3                                     | 0.4                                   | 2                                     | 0.3                                   | 0.9                                   | 0.1                                   | 0.8                                   | 0.2                                   | 9                                    | 52                                    | 46        | 2        |
| JPAC271 | 24        | 28      | 4             | 1605        | 516                                   | 657                     | 81                                     | 234                                   | 32                                    | 6.9                                   | 19                                    | 2.2                                   | 9.8                                   | 1.6                                   | 3.4                                   | 0.4                                   | 2.3                                   | 0.3                                   | 40                                   | 50                                    | 36        | 2        |
| JPAC271 | 28        | 32      | 4             | 1242        | 355                                   | 499                     | 64                                     | 201                                   | 29                                    | 6.5                                   | 19                                    | 2.4                                   | 10.7                                  | 1.8                                   | 4.3                                   | 0.5                                   | 3.2                                   | 0.4                                   | 46                                   | 46                                    | 31        | 5        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC271 | 32        | 36      | 4             | 2620        | 585                                   | 1156                    | 143                                    | 490                                   | 72                                    | 15                                    | 41                                    | 4.8                                   | 20.3                                  | 3.1                                   | 7.3                                   | 0.8                                   | 4.7                                   | 0.6                                   | 78                                   | 39                                    | 27        | 6        |
| JPAC271 | 36        | 40      | 4             | 2055        | 414                                   | 927                     | 114                                    | 401                                   | 60                                    | 12.4                                  | 33                                    | 4                                     | 16.1                                  | 2.4                                   | 6.1                                   | 0.7                                   | 4                                     | 0.6                                   | 61                                   | 40                                    | 25        | 7        |
| JPAC271 | 40        | 44      | 4             | 1675        | 283                                   | 762                     | 91                                     | 344                                   | 54                                    | 11.1                                  | 32                                    | 3.7                                   | 16.8                                  | 2.7                                   | 6.6                                   | 0.8                                   | 4.4                                   | 0.6                                   | 65                                   | 39                                    | 23        | 6        |
| JPAC271 | 44        | 48      | 4             | 1836        | 294                                   | 770                     | 97                                     | 393                                   | 67                                    | 14.1                                  | 42                                    | 5.1                                   | 23.2                                  | 3.7                                   | 9.8                                   | 1.3                                   | 7.5                                   | 1                                     | 107                                  | 34                                    | 22        | 5        |
| JPAC271 | 48        | 52      | 4             | 1545        | 281                                   | 679                     | 78                                     | 296                                   | 50                                    | 10.7                                  | 33                                    | 3.8                                   | 16.9                                  | 2.8                                   | 7.7                                   | 0.9                                   | 5.9                                   | 0.7                                   | 78                                   | 35                                    | 22        | 4        |
| JPAC271 | 52        | 56      | 4             | 1158        | 232                                   | 533                     | 56                                     | 206                                   | 32                                    | 6.7                                   | 19                                    | 2.2                                   | 10.2                                  | 1.8                                   | 4.8                                   | 0.7                                   | 3.9                                   | 0.6                                   | 50                                   | 37                                    | 23        | 4        |
| JPAC271 | 56        | 60      | 4             | 577         | 110                                   | 247                     | 29                                     | 112                                   | 18                                    | 4.7                                   | 12                                    | 1.4                                   | 6.2                                   | 1.1                                   | 2.8                                   | 0.4                                   | 2.4                                   | 0.4                                   | 31                                   | 34                                    | 12        | 3        |
| JPAC271 | 60        | 64      | 4             | 708         | 125                                   | 296                     | 36                                     | 138                                   | 22                                    | 5.2                                   | 15                                    | 1.9                                   | 8.4                                   | 1.6                                   | 4.2                                   | 0.5                                   | 3.1                                   | 0.4                                   | 50                                   | 27                                    | 14        | 3        |
| JPAC271 | 64        | 68      | 4             | 1046        | 180                                   | 447                     | 55                                     | 204                                   | 33                                    | 7.5                                   | 23                                    | 2.8                                   | 12.8                                  | 2.2                                   | 5.9                                   | 0.7                                   | 4.3                                   | 0.6                                   | 68                                   | 29                                    | 20        | 4        |
| JPAC271 | 68        | 70      | 2             | 820         | 141                                   | 350                     | 42                                     | 160                                   | 26                                    | 5.9                                   | 18                                    | 2.2                                   | 10.4                                  | 1.7                                   | 4.6                                   | 0.6                                   | 3.3                                   | 0.5                                   | 54                                   | 27                                    | 17        | 3        |
| JPAC272 | 4         | 8       | 4             | 278         | 55                                    | 125                     | 12                                     | 43                                    | 7                                     | 1.5                                   | 5                                     | 0.7                                   | 3.9                                   | 0.7                                   | 1.8                                   | 0.3                                   | 1.9                                   | 0.3                                   | 20                                   | 26                                    | 23        | 3        |
| JPAC272 | 8         | 12      | 4             | 1082        | 284                                   | 344                     | 71                                     | 246                                   | 35                                    | 6.9                                   | 19                                    | 2.3                                   | 10.8                                  | 1.8                                   | 4.7                                   | 0.6                                   | 3.4                                   | 0.4                                   | 54                                   | 38                                    | 25        | 3        |
| JPAC272 | 12        | 16      | 4             | 2390        | 439                                   | 1056                    | 126                                    | 469                                   | 71                                    | 15                                    | 43                                    | 5.2                                   | 23.3                                  | 4                                     | 10.3                                  | 1.2                                   | 6.7                                   | 0.9                                   | 121                                  | 49                                    | 27        | 2        |
| JPAC272 | 16        | 20      | 4             | 2930        | 463                                   | 1548                    | 112                                    | 416                                   | 72                                    | 16.3                                  | 51                                    | 6.3                                   | 30                                    | 5.4                                   | 14.4                                  | 1.8                                   | 10.4                                  | 1.4                                   | 182                                  | 49                                    | 33        | 3        |
| JPAC272 | 20        | 24      | 4             | 2876        | 399                                   | 1775                    | 107                                    | 376                                   | 59                                    | 11.8                                  | 33                                    | 4                                     | 18                                    | 2.9                                   | 7.8                                   | 0.9                                   | 4.8                                   | 0.7                                   | 78                                   | 42                                    | 28        | 3        |
| JPAC272 | 24        | 28      | 4             | 1910        | 339                                   | 800                     | 103                                    | 392                                   | 65                                    | 13.8                                  | 41                                    | 5.1                                   | 23.3                                  | 3.8                                   | 9.2                                   | 1.1                                   | 5.9                                   | 0.8                                   | 109                                  | 44                                    | 33        | 4        |
| JPAC272 | 28        | 32      | 4             | 1695        | 278                                   | 765                     | 87                                     | 343                                   | 58                                    | 11.8                                  | 34                                    | 4.1                                   | 18.1                                  | 3.1                                   | 7.4                                   | 0.8                                   | 4.7                                   | 0.6                                   | 80                                   | 43                                    | 35        | 6        |
| JPAC272 | 32        | 36      | 4             | 1678        | 267                                   | 717                     | 83                                     | 324                                   | 60                                    | 11.9                                  | 38                                    | 5                                     | 23.4                                  | 4.2                                   | 11.3                                  | 1.3                                   | 8.8                                   | 1.3                                   | 122                                  | 39                                    | 28        | 7        |
| JPAC272 | 36        | 40      | 4             | 1144        | 181                                   | 440                     | 53                                     | 206                                   | 36                                    | 8.4                                   | 28                                    | 3.9                                   | 21.1                                  | 4.3                                   | 11.8                                  | 1.6                                   | 10.1                                  | 1.6                                   | 138                                  | 26                                    | 19        | 4        |
| JPAC273 | 8         | 12      | 4             | 312         | 86                                    | 128                     | 13                                     | 41                                    | 7                                     | 1.6                                   | 5                                     | 0.8                                   | 3.8                                   | 0.6                                   | 2                                     | 0.3                                   | 1.8                                   | 0.2                                   | 21                                   | 30                                    | 25        | 2        |
| JPAC273 | 12        | 16      | 4             | 433         | 223                                   | 75                      | 26                                     | 71                                    | 8                                     | 2                                     | 5                                     | 0.6                                   | 2.8                                   | 0.5                                   | 1.2                                   | 0.1                                   | 1                                     | 0.1                                   | 17                                   | 50                                    | 31        | 2        |
| JPAC273 | 16        | 20      | 4             | 471         | 232                                   | 83                      | 29                                     | 81                                    | 10                                    | 2.6                                   | 7                                     | 0.8                                   | 3.8                                   | 0.6                                   | 1.5                                   | 0.2                                   | 1                                     | 0.2                                   | 19                                   | 48                                    | 28        | 2        |
| JPAC273 | 20        | 24      | 4             | 2109        | 1025                                  | 291                     | 144                                    | 430                                   | 48                                    | 10.7                                  | 33                                    | 3.5                                   | 16.1                                  | 2.9                                   | 6.8                                   | 0.7                                   | 3.6                                   | 0.5                                   | 93                                   | 53                                    | 35        | 3        |
| JPAC273 | 24        | 28      | 4             | 6121        | 1401                                  | 2543                    | 313                                    | 1165                                  | 162                                   | 33.9                                  | 98                                    | 12                                    | 57                                    | 9.9                                   | 24.5                                  | 2.8                                   | 15.5                                  | 1.8                                   | 282                                  | 43                                    | 63        | 5        |
| JPAC273 | 28        | 32      | 4             | 5105        | 1027                                  | 2518                    | 251                                    | 867                                   | 118                                   | 24.1                                  | 63                                    | 7.9                                   | 35.1                                  | 5.9                                   | 14.5                                  | 1.9                                   | 11.8                                  | 1.5                                   | 159                                  | 48                                    | 30        | 5        |
| JPAC273 | 32        | 36      | 4             | 4824        | 493                                   | 3059                    | 165                                    | 652                                   | 96                                    | 20                                    | 56                                    | 7                                     | 34.1                                  | 6                                     | 17.6                                  | 2.3                                   | 14.5                                  | 1.9                                   | 202                                  | 37                                    | 24        | 5        |
| JPAC273 | 36        | 40      | 4             | 1782        | 260                                   | 883                     | 76                                     | 302                                   | 49                                    | 11                                    | 33                                    | 4.3                                   | 19.8                                  | 3.6                                   | 10.3                                  | 1.4                                   | 9.6                                   | 1.5                                   | 117                                  | 33                                    | 21        | 6        |
| JPAC273 | 40        | 43      | 3             | 1032        | 178                                   | 432                     | 51                                     | 200                                   | 33                                    | 7.4                                   | 23                                    | 2.8                                   | 13.8                                  | 2.3                                   | 6.3                                   | 0.8                                   | 4.3                                   | 0.7                                   | 77                                   | 29                                    | 16        | 5        |
| JPAC274 | 4         | 8       | 4             | 247         | 48                                    | 113                     | 10                                     | 35                                    | 6                                     | 1.2                                   | 4                                     | 0.6                                   | 3.6                                   | 0.7                                   | 2                                     | 0.2                                   | 1.9                                   | 0.3                                   | 21                                   | 24                                    | 20        | 2        |
| JPAC274 | 8         | 12      | 4             | 634         | 177                                   | 193                     | 40                                     | 137                                   | 21                                    | 4.5                                   | 13                                    | 1.6                                   | 7.8                                   | 1.3                                   | 3.1                                   | 0.3                                   | 2                                     | 0.3                                   | 33                                   | 48                                    | 40        | 3        |
| JPAC274 | 12        | 16      | 4             | 1263        | 273                                   | 425                     | 73                                     | 286                                   | 46                                    | 10.6                                  | 30                                    | 3.8                                   | 17.7                                  | 3                                     | 7.7                                   | 1                                     | 5.9                                   | 0.8                                   | 80                                   | 52                                    | 44        | 3        |
| JPAC274 | 16        | 20      | 4             | 2184        | 394                                   | 1149                    | 100                                    | 352                                   | 51                                    | 10.4                                  | 30                                    | 3.5                                   | 16.8                                  | 2.5                                   | 5.8                                   | 0.6                                   | 3.7                                   | 0.4                                   | 66                                   | 51                                    | 43        | 4        |
| JPAC274 | 20        | 24      | 4             | 2613        | 425                                   | 1370                    | 112                                    | 421                                   | 67                                    | 15.1                                  | 42                                    | 5.4                                   | 24.3                                  | 4                                     | 9.6                                   | 1.1                                   | 5.8                                   | 0.7                                   | 111                                  | 45                                    | 45        | 4        |
| JPAC274 | 24        | 28      | 4             | 2608        | 398                                   | 1296                    | 116                                    | 448                                   | 76                                    | 17.1                                  | 51                                    | 6.6                                   | 30.3                                  | 5.1                                   | 12.4                                  | 1.5                                   | 7.8                                   | 1                                     | 143                                  | 42                                    | 39        | 4        |
| JPAC274 | 28        | 32      | 4             | 1511        | 272                                   | 705                     | 82                                     | 301                                   | 45                                    | 9.2                                   | 22                                    | 2.4                                   | 11.2                                  | 1.8                                   | 4.6                                   | 0.7                                   | 4.5                                   | 0.7                                   | 51                                   | 31                                    | 28        | 7        |
| JPAC274 | 32        | 36      | 4             | 1346        | 229                                   | 576                     | 68                                     | 265                                   | 44                                    | 9.4                                   | 29                                    | 3.5                                   | 16.6                                  | 2.9                                   | 7.1                                   | 0.9                                   | 5.4                                   | 0.7                                   | 89                                   | 28                                    | 27        | 5        |
| JPAC274 | 36        | 40      | 4             | 1190        | 220                                   | 510                     | 60                                     | 229                                   | 38                                    | 8                                     | 24                                    | 2.9                                   | 14.3                                  | 2.3                                   | 5.5                                   | 0.8                                   | 4.3                                   | 0.6                                   | 72                                   | 27                                    | 18        | 4        |
| JPAC274 | 40        | 44      | 4             | 1228        | 219                                   | 526                     | 62                                     | 240                                   | 42                                    | 9                                     | 27                                    | 3.3                                   | 15                                    | 2.4                                   | 6                                     | 0.7                                   | 4.2                                   | 0.6                                   | 71                                   | 25                                    | 19        | 4        |
| JPAC274 | 44        | 48      | 4             | 1093        | 186                                   | 456                     | 57                                     | 223                                   | 38                                    | 8.5                                   | 25                                    | 3.2                                   | 14.3                                  | 2.4                                   | 6                                     | 0.7                                   | 4                                     | 0.6                                   | 69                                   | 24                                    | 17        | 3        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC274 | 48        | 52      | 4             | 1084        | 189                                   | 450                     | 57                                     | 222                                   | 38                                    | 8                                     | 26                                    | 3                                     | 13                                    | 2.2                                   | 5                                     | 0.7                                   | 3.7                                   | 0.5                                   | 67                                   | 24                                    | 17        | 3        |
| JPAC274 | 52        | 54      | 2             | 1039        | 180                                   | 435                     | 54                                     | 211                                   | 36                                    | 7.9                                   | 23                                    | 2.8                                   | 13.9                                  | 2.1                                   | 5.4                                   | 0.6                                   | 4.1                                   | 0.5                                   | 65                                   | 25                                    | 17        | 3        |
| JPAC275 | 8         | 12      | 4             | 303         | 98                                    | 105                     | 15                                     | 48                                    | 6                                     | 1.6                                   | 5                                     | 0.6                                   | 2.8                                   | 0.5                                   | 1.6                                   | 0.2                                   | 1.2                                   | 0.2                                   | 18                                   | 35                                    | 18        | 2        |
| JPAC275 | 12        | 16      | 4             | 651         | 219                                   | 229                     | 34                                     | 105                                   | 14                                    | 3.4                                   | 9                                     | 1.2                                   | 5.5                                   | 0.9                                   | 2.2                                   | 0.2                                   | 1.5                                   | 0.2                                   | 27                                   | 51                                    | 24        | 2        |
| JPAC275 | 16        | 20      | 4             | 1536        | 357                                   | 654                     | 81                                     | 279                                   | 41                                    | 9.3                                   | 26                                    | 3.3                                   | 14.6                                  | 2.3                                   | 5.6                                   | 0.6                                   | 3.5                                   | 0.4                                   | 61                                   | 42                                    | 23        | 2        |
| JPAC275 | 20        | 24      | 4             | 5054        | 520                                   | 3476                    | 147                                    | 558                                   | 83                                    | 17.9                                  | 52                                    | 6.7                                   | 31.9                                  | 5.3                                   | 13                                    | 1.5                                   | 8.5                                   | 1.1                                   | 133                                  | 44                                    | 28        | 3        |
| JPAC275 | 24        | 28      | 4             | 2905        | 284                                   | 1953                    | 84                                     | 331                                   | 53                                    | 11.8                                  | 34                                    | 4.4                                   | 20.6                                  | 3.7                                   | 10.2                                  | 1.2                                   | 7.5                                   | 1                                     | 106                                  | 35                                    | 25        | 5        |
| JPAC275 | 28        | 32      | 4             | 1490        | 229                                   | 640                     | 70                                     | 281                                   | 48                                    | 11                                    | 33                                    | 4.4                                   | 21.2                                  | 3.9                                   | 10.6                                  | 1.5                                   | 9.9                                   | 1.5                                   | 126                                  | 28                                    | 23        | 7        |
| JPAC275 | 32        | 36      | 4             | 1025        | 178                                   | 443                     | 53                                     | 197                                   | 32                                    | 7.2                                   | 21                                    | 2.6                                   | 12.3                                  | 2.2                                   | 5.6                                   | 0.7                                   | 4.2                                   | 0.6                                   | 66                                   | 27                                    | 18        | 3        |
| JPAC275 | 36        | 39      | 3             | 1049        | 173                                   | 459                     | 54                                     | 206                                   | 32                                    | 7                                     | 21                                    | 2.8                                   | 12.7                                  | 2.3                                   | 5.8                                   | 0.8                                   | 4.7                                   | 0.6                                   | 67                                   | 24                                    | 19        | 3        |
| JPAC276 | 12        | 16      | 4             | 160         | 45                                    | 56                      | 8                                      | 27                                    | 4                                     | 0.9                                   | 3                                     | 0.3                                   | 2                                     | 0.4                                   | 1.1                                   | 0.2                                   | 1.1                                   | 0.2                                   | 11                                   | 39                                    | 26        | 2        |
| JPAC276 | 16        | 20      | 4             | 421         | 140                                   | 132                     | 25                                     | 83                                    | 10                                    | 2.1                                   | 6                                     | 0.7                                   | 3.6                                   | 0.6                                   | 1.4                                   | 0.2                                   | 1.2                                   | 0.2                                   | 16                                   | 65                                    | 43        | 2        |
| JPAC276 | 20        | 24      | 4             | 601         | 205                                   | 190                     | 37                                     | 118                                   | 14                                    | 3.2                                   | 8                                     | 0.9                                   | 4.1                                   | 0.7                                   | 1.5                                   | 0.2                                   | 1.2                                   | 0.2                                   | 18                                   | 61                                    | 38        | 1        |
| JPAC276 | 24        | 28      | 4             | 945         | 281                                   | 407                     | 47                                     | 145                                   | 16                                    | 3.9                                   | 10                                    | 1.2                                   | 5.5                                   | 0.8                                   | 1.9                                   | 0.2                                   | 1.3                                   | 0.2                                   | 25                                   | 45                                    | 27        | 2        |
| JPAC276 | 28        | 32      | 4             | 1334        | 360                                   | 630                     | 64                                     | 196                                   | 24                                    | 5.2                                   | 13                                    | 1.4                                   | 6.5                                   | 1.1                                   | 2.4                                   | 0.3                                   | 1.7                                   | 0.2                                   | 29                                   | 43                                    | 32        | 3        |
| JPAC276 | 32        | 36      | 4             | 1779        | 450                                   | 851                     | 83                                     | 271                                   | 31                                    | 7.2                                   | 18                                    | 2.2                                   | 9.3                                   | 1.6                                   | 3.9                                   | 0.5                                   | 2.7                                   | 0.4                                   | 47                                   | 46                                    | 33        | 3        |
| JPAC276 | 36        | 40      | 4             | 1783        | 453                                   | 833                     | 85                                     | 279                                   | 33                                    | 7.5                                   | 19                                    | 2.3                                   | 10.3                                  | 1.7                                   | 4.1                                   | 0.5                                   | 2.8                                   | 0.4                                   | 52                                   | 42                                    | 30        | 3        |
| JPAC276 | 40        | 44      | 4             | 1701        | 453                                   | 768                     | 87                                     | 279                                   | 31                                    | 6.9                                   | 17                                    | 2                                     | 8.9                                   | 1.4                                   | 3.6                                   | 0.4                                   | 2.3                                   | 0.3                                   | 41                                   | 40                                    | 28        | 4        |
| JPAC276 | 48        | 52      | 4             | 3470        | 572                                   | 1843                    | 158                                    | 603                                   | 82                                    | 16.2                                  | 50                                    | 5.8                                   | 24.7                                  | 3.9                                   | 8.9                                   | 1.1                                   | 6.5                                   | 0.9                                   | 96                                   | 43                                    | 23        | 7        |
| JPAC276 | 52        | 56      | 4             | 4360        | 550                                   | 2580                    | 181                                    | 701                                   | 102                                   | 20                                    | 59                                    | 6.9                                   | 29.3                                  | 4.6                                   | 10.7                                  | 1.4                                   | 8.6                                   | 1.2                                   | 105                                  | 38                                    | 21        | 6        |
| JPAC276 | 56        | 60      | 4             | 1014        | 139                                   | 598                     | 41                                     | 151                                   | 21                                    | 3.8                                   | 13                                    | 1.6                                   | 6.8                                   | 1.2                                   | 2.9                                   | 0.4                                   | 2.6                                   | 0.4                                   | 32                                   | 31                                    | 48        | 3        |
| JPAC276 | 60        | 64      | 4             | 1567        | 269                                   | 764                     | 76                                     | 286                                   | 41                                    | 8.3                                   | 25                                    | 3                                     | 14                                    | 2.3                                   | 5.8                                   | 0.8                                   | 4.7                                   | 0.7                                   | 68                                   | 33                                    | 25        | 4        |
| JPAC276 | 64        | 68      | 4             | 1289        | 232                                   | 598                     | 64                                     | 241                                   | 34                                    | 7.3                                   | 22                                    | 2.7                                   | 11.9                                  | 2.1                                   | 5.1                                   | 0.7                                   | 4.3                                   | 0.6                                   | 63                                   | 28                                    | 25        | 4        |
| JPAC276 | 68        | 72      | 4             | 1196        | 214                                   | 554                     | 59                                     | 223                                   | 32                                    | 6.5                                   | 20                                    | 2.5                                   | 11.4                                  | 2                                     | 5.2                                   | 0.6                                   | 3.8                                   | 0.7                                   | 61                                   | 27                                    | 21        | 3        |
| JPAC276 | 72        | 74      | 2             | 986         | 177                                   | 448                     | 50                                     | 186                                   | 27                                    | 6                                     | 18                                    | 2.2                                   | 10.2                                  | 1.7                                   | 4.1                                   | 0.5                                   | 3.4                                   | 0.5                                   | 52                                   | 29                                    | 20        | 2        |
| JPAC277 | 8         | 12      | 4             | 225         | 41                                    | 114                     | 10                                     | 32                                    | 5                                     | 1                                     | 3                                     | 0.5                                   | 2.5                                   | 0.4                                   | 1.3                                   | 0.2                                   | 1                                     | 0.2                                   | 13                                   | 22                                    | 19        | 1        |
| JPAC277 | 12        | 16      | 4             | 283         | 102                                   | 67                      | 18                                     | 57                                    | 8                                     | 1.9                                   | 6                                     | 0.7                                   | 3.2                                   | 0.5                                   | 1.4                                   | 0.2                                   | 1.2                                   | 0.2                                   | 18                                   | 41                                    | 18        | 2        |
| JPAC277 | 16        | 20      | 4             | 462         | 174                                   | 127                     | 27                                     | 82                                    | 12                                    | 3                                     | 8                                     | 0.9                                   | 4.1                                   | 0.7                                   | 1.6                                   | 0.2                                   | 1.3                                   | 0.2                                   | 22                                   | 50                                    | 27        | 2        |
| JPAC277 | 20        | 24      | 4             | 4138        | 1366                                  | 1253                    | 271                                    | 876                                   | 101                                   | 22                                    | 59                                    | 6.8                                   | 29.5                                  | 4.8                                   | 10.2                                  | 1.2                                   | 6.4                                   | 0.9                                   | 131                                  | 50                                    | 28        | 3        |
| JPAC277 | 24        | 28      | 4             | 3342        | 862                                   | 1217                    | 220                                    | 736                                   | 90                                    | 18.6                                  | 49                                    | 6                                     | 25.2                                  | 3.8                                   | 8.7                                   | 1.2                                   | 5.8                                   | 0.8                                   | 99                                   | 50                                    | 30        | 5        |
| JPAC277 | 28        | 32      | 4             | 4725        | 822                                   | 1763                    | 300                                    | 1242                                  | 180                                   | 38                                    | 99                                    | 11.6                                  | 50.4                                  | 7.8                                   | 17.2                                  | 2.1                                   | 11.3                                  | 1.3                                   | 180                                  | 47                                    | 27        | 6        |
| JPAC277 | 32        | 36      | 4             | 3042        | 481                                   | 1437                    | 162                                    | 656                                   | 95                                    | 19.1                                  | 53                                    | 6.3                                   | 26.4                                  | 4                                     | 8.9                                   | 1.1                                   | 6                                     | 0.7                                   | 87                                   | 48                                    | 37        | 7        |
| JPAC277 | 36        | 40      | 4             | 2364        | 320                                   | 1169                    | 116                                    | 484                                   | 72                                    | 15.5                                  | 43                                    | 5.3                                   | 23.1                                  | 3.8                                   | 8.7                                   | 1.1                                   | 6.6                                   | 0.9                                   | 94                                   | 43                                    | 29        | 7        |
| JPAC277 | 40        | 44      | 4             | 2881        | 293                                   | 1462                    | 115                                    | 555                                   | 108                                   | 23.7                                  | 71                                    | 8.6                                   | 39.3                                  | 6.4                                   | 16.2                                  | 2.2                                   | 14.6                                  | 2                                     | 164                                  | 38                                    | 24        | 8        |
| JPAC277 | 44        | 48      | 4             | 1375        | 206                                   | 563                     | 66                                     | 265                                   | 43                                    | 9.4                                   | 31                                    | 4                                     | 19.5                                  | 3.9                                   | 11.1                                  | 1.7                                   | 11.2                                  | 1.8                                   | 140                                  | 31                                    | 21        | 6        |
| JPAC277 | 48        | 50      | 2             | 1195        | 196                                   | 507                     | 61                                     | 233                                   | 37                                    | 8                                     | 25                                    | 3.2                                   | 15                                    | 2.8                                   | 7.4                                   | 1                                     | 5.9                                   | 0.9                                   | 92                                   | 28                                    | 20        | 4        |
| JPAC278 | 12        | 16      | 4             | 226         | 64                                    | 85                      | 12                                     | 39                                    | 5                                     | 1.2                                   | 3                                     | 0.4                                   | 2.1                                   | 0.4                                   | 1.2                                   | 0.1                                   | 1.2                                   | 0.2                                   | 12                                   | 32                                    | 18        | 2        |
| JPAC278 | 16        | 20      | 4             | 891         | 270                                   | 321                     | 54                                     | 171                                   | 19                                    | 4.2                                   | 11                                    | 1.3                                   | 5.7                                   | 1                                     | 2.5                                   | 0.3                                   | 1.8                                   | 0.3                                   | 29                                   | 45                                    | 19        | 1        |
| JPAC278 | 20        | 24      | 4             | 1563        | 427                                   | 635                     | 89                                     | 292                                   | 32                                    | 7.7                                   | 18                                    | 2                                     | 9.1                                   | 1.5                                   | 3.6                                   | 0.4                                   | 2.2                                   | 0.4                                   | 45                                   | 49                                    | 19        | 1        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC278 | 24        | 28      | 4             | 1696        | 456                                   | 730                     | 91                                     | 296                                   | 34                                    | 7.7                                   | 19                                    | 2.2                                   | 9.8                                   | 1.6                                   | 3.6                                   | 0.4                                   | 2.3                                   | 0.3                                   | 43                                   | 43                                    | 23        | 2        |
| JPAC278 | 28        | 32      | 4             | 1638        | 402                                   | 794                     | 77                                     | 240                                   | 30                                    | 6.5                                   | 17                                    | 1.9                                   | 9.2                                   | 1.6                                   | 3.9                                   | 0.5                                   | 2.9                                   | 0.4                                   | 52                                   | 40                                    | 22        | 2        |
| JPAC278 | 32        | 36      | 4             | 1347        | 311                                   | 666                     | 62                                     | 202                                   | 27                                    | 6.1                                   | 16                                    | 2                                     | 8.8                                   | 1.4                                   | 3.1                                   | 0.4                                   | 2.1                                   | 0.3                                   | 39                                   | 39                                    | 24        | 3        |
| JPAC278 | 36        | 40      | 4             | 1331        | 326                                   | 618                     | 70                                     | 221                                   | 27                                    | 5.8                                   | 15                                    | 1.7                                   | 7.5                                   | 1.2                                   | 2.8                                   | 0.3                                   | 2.1                                   | 0.3                                   | 33                                   | 49                                    | 19        | 3        |
| JPAC278 | 40        | 44      | 4             | 924         | 197                                   | 458                     | 44                                     | 150                                   | 20                                    | 4.3                                   | 11                                    | 1.3                                   | 5.9                                   | 1                                     | 2.4                                   | 0.3                                   | 2                                     | 0.3                                   | 27                                   | 40                                    | 23        | 4        |
| JPAC278 | 44        | 48      | 4             | 1345        | 251                                   | 789                     | 54                                     | 176                                   | 21                                    | 4.4                                   | 11                                    | 1.4                                   | 6.3                                   | 1                                     | 2.5                                   | 0.3                                   | 2.3                                   | 0.3                                   | 26                                   | 38                                    | 30        | 5        |
| JPAC278 | 48        | 52      | 4             | 1398        | 239                                   | 823                     | 52                                     | 181                                   | 23                                    | 5.3                                   | 14                                    | 1.7                                   | 7.8                                   | 1.5                                   | 3.5                                   | 0.4                                   | 2.8                                   | 0.4                                   | 42                                   | 37                                    | 22        | 3        |
| JPAC278 | 52        | 56      | 4             | 2176        | 466                                   | 1144                    | 99                                     | 330                                   | 39                                    | 7.9                                   | 20                                    | 2.2                                   | 10.4                                  | 1.7                                   | 3.9                                   | 0.4                                   | 3.1                                   | 0.4                                   | 50                                   | 38                                    | 24        | 2        |
| JPAC278 | 56        | 60      | 4             | 2217        | 464                                   | 1092                    | 106                                    | 373                                   | 47                                    | 9.8                                   | 25                                    | 2.9                                   | 13.5                                  | 2.3                                   | 5.9                                   | 0.8                                   | 4.9                                   | 0.7                                   | 69                                   | 35                                    | 23        | 2        |
| JPAC278 | 60        | 64      | 4             | 1581        | 353                                   | 754                     | 78                                     | 257                                   | 31                                    | 6.6                                   | 17                                    | 2                                     | 9.2                                   | 1.7                                   | 4.9                                   | 0.8                                   | 5.3                                   | 0.8                                   | 61                                   | 36                                    | 24        | 2        |
| JPAC278 | 64        | 68      | 4             | 1655        | 367                                   | 800                     | 81                                     | 275                                   | 33                                    | 7                                     | 18                                    | 2                                     | 9.4                                   | 1.6                                   | 4.2                                   | 0.5                                   | 3.8                                   | 0.5                                   | 53                                   | 35                                    | 20        | 2        |
| JPAC278 | 68        | 72      | 4             | 1362        | 306                                   | 661                     | 67                                     | 224                                   | 27                                    | 5.6                                   | 14                                    | 1.7                                   | 7.6                                   | 1.3                                   | 3.5                                   | 0.4                                   | 2.8                                   | 0.4                                   | 40                                   | 28                                    | 21        | 2        |
| JPAC279 | 16        | 20      | 4             | 378         | 110                                   | 156                     | 19                                     | 60                                    | 8                                     | 1.5                                   | 4                                     | 0.6                                   | 2.6                                   | 0.5                                   | 1.3                                   | 0.2                                   | 1.2                                   | 0.2                                   | 14                                   | 44                                    | 33        | 2        |
| JPAC279 | 20        | 24      | 4             | 2017        | 462                                   | 1059                    | 86                                     | 288                                   | 35                                    | 7.1                                   | 19                                    | 2.2                                   | 9.3                                   | 1.4                                   | 3.6                                   | 0.5                                   | 2.8                                   | 0.3                                   | 42                                   | 46                                    | 30        | 1        |
| JPAC279 | 24        | 28      | 4             | 2468        | 517                                   | 1357                    | 101                                    | 341                                   | 45                                    | 8.9                                   | 24                                    | 2.7                                   | 11.7                                  | 1.9                                   | 4                                     | 0.5                                   | 3.2                                   | 0.4                                   | 51                                   | 45                                    | 31        | 1        |
| JPAC279 | 28        | 32      | 4             | 2620        | 578                                   | 1327                    | 108                                    | 383                                   | 52                                    | 10.3                                  | 31                                    | 3.7                                   | 16.6                                  | 3                                     | 7.6                                   | 0.9                                   | 5                                     | 0.7                                   | 95                                   | 46                                    | 34        | 1        |
| JPAC279 | 32        | 36      | 4             | 1015        | 274                                   | 479                     | 45                                     | 143                                   | 20                                    | 4.2                                   | 11                                    | 1.3                                   | 5.6                                   | 1                                     | 2.2                                   | 0.3                                   | 1.7                                   | 0.2                                   | 26                                   | 49                                    | 40        | 2        |
| JPAC279 | 36        | 40      | 4             | 1839        | 475                                   | 865                     | 81                                     | 262                                   | 35                                    | 7.6                                   | 22                                    | 2.6                                   | 12.3                                  | 2.1                                   | 5.4                                   | 0.6                                   | 4                                     | 0.5                                   | 65                                   | 52                                    | 51        | 3        |
| JPAC279 | 40        | 44      | 4             | 2177        | 554                                   | 1086                    | 87                                     | 276                                   | 37                                    | 7.8                                   | 23                                    | 2.8                                   | 12.7                                  | 2.2                                   | 5.9                                   | 0.7                                   | 4.8                                   | 0.6                                   | 77                                   | 54                                    | 43        | 3        |
| JPAC279 | 44        | 48      | 4             | 2216        | 564                                   | 1113                    | 87                                     | 281                                   | 38                                    | 8                                     | 24                                    | 2.9                                   | 13.5                                  | 2.3                                   | 5.8                                   | 0.7                                   | 4.1                                   | 0.6                                   | 72                                   | 51                                    | 40        | 3        |
| JPAC279 | 48        | 52      | 4             | 1028        | 232                                   | 536                     | 41                                     | 136                                   | 19                                    | 3.5                                   | 12                                    | 1.5                                   | 7.1                                   | 1.2                                   | 2.7                                   | 0.4                                   | 2.6                                   | 0.3                                   | 33                                   | 36                                    | 48        | 2        |
| JPAC279 | 52        | 56      | 4             | 1653        | 441                                   | 685                     | 87                                     | 297                                   | 38                                    | 6.5                                   | 20                                    | 2.2                                   | 10.9                                  | 1.7                                   | 4.8                                   | 0.7                                   | 5                                     | 0.7                                   | 52                                   | 35                                    | 57        | 3        |
| JPAC279 | 56        | 60      | 4             | 2490        | 637                                   | 1067                    | 125                                    | 432                                   | 56                                    | 10.4                                  | 32                                    | 3.7                                   | 17.2                                  | 2.9                                   | 7.5                                   | 1.1                                   | 7.7                                   | 1.2                                   | 90                                   | 45                                    | 43        | 2        |
| JPAC279 | 60        | 64      | 4             | 1434        | 347                                   | 672                     | 66                                     | 220                                   | 29                                    | 5.6                                   | 17                                    | 2.2                                   | 9.8                                   | 1.7                                   | 4.4                                   | 0.6                                   | 3.8                                   | 0.6                                   | 55                                   | 37                                    | 27        | 2        |
| JPAC279 | 64        | 68      | 4             | 1640        | 426                                   | 741                     | 76                                     | 255                                   | 34                                    | 6.7                                   | 19                                    | 2.3                                   | 10.6                                  | 1.9                                   | 4.8                                   | 0.6                                   | 3.8                                   | 0.5                                   | 59                                   | 35                                    | 31        | 2        |
| JPAC279 | 68        | 72      | 4             | 1482        | 367                                   | 703                     | 68                                     | 225                                   | 29                                    | 5.4                                   | 17                                    | 2                                     | 9.6                                   | 1.6                                   | 3.7                                   | 0.5                                   | 3.3                                   | 0.5                                   | 48                                   | 33                                    | 27        | 2        |
| JPAC279 | 72        | 76      | 4             | 1277        | 317                                   | 607                     | 58                                     | 191                                   | 25                                    | 5.1                                   | 14                                    | 1.7                                   | 8.3                                   | 1.3                                   | 3.4                                   | 0.5                                   | 3                                     | 0.4                                   | 42                                   | 31                                    | 23        | 2        |
| JPAC279 | 76        | 77      | 1             | 1365        | 337                                   | 656                     | 61                                     | 201                                   | 26                                    | 5.2                                   | 15                                    | 1.8                                   | 8.4                                   | 1.5                                   | 3.6                                   | 0.5                                   | 3.1                                   | 0.4                                   | 45                                   | 32                                    | 25        | 2        |
| JPAC280 | 28        | 32      | 4             | 105         | 35                                    | 25                      | 7                                      | 23                                    | 3                                     | 0.8                                   | 2                                     | 0.3                                   | 1.4                                   | 0.2                                   | 0.5                                   | 0.1                                   | 0.7                                   | 0.1                                   | 6                                    | 43                                    | 12        | 1        |
| JPAC280 | 32        | 36      | 4             | 562         | 165                                   | 142                     | 40                                     | 139                                   | 22                                    | 4.4                                   | 13                                    | 1.5                                   | 6.9                                   | 1                                     | 2.1                                   | 0.3                                   | 1.4                                   | 0.2                                   | 24                                   | 50                                    | 24        | 3        |
| JPAC280 | 36        | 40      | 4             | 958         | 237                                   | 308                     | 60                                     | 219                                   | 34                                    | 6.7                                   | 21                                    | 2.5                                   | 11.4                                  | 1.8                                   | 4                                     | 0.5                                   | 2.5                                   | 0.4                                   | 49                                   | 52                                    | 27        | 4        |
| JPAC280 | 40        | 44      | 4             | 3488        | 985                                   | 1066                    | 234                                    | 832                                   | 118                                   | 23.5                                  | 66                                    | 7.4                                   | 30.8                                  | 4.5                                   | 8.9                                   | 0.9                                   | 5                                     | 0.6                                   | 107                                  | 52                                    | 30        | 4        |
| JPAC280 | 44        | 48      | 4             | 2309        | 538                                   | 994                     | 126                                    | 413                                   | 65                                    | 13.3                                  | 40                                    | 4.4                                   | 20.4                                  | 3.2                                   | 6.8                                   | 0.7                                   | 3.8                                   | 0.5                                   | 81                                   | 56                                    | 28        | 6        |
| JPAC280 | 48        | 52      | 4             | 2364        | 503                                   | 1027                    | 131                                    | 446                                   | 70                                    | 14.6                                  | 46                                    | 5.4                                   | 24.9                                  | 3.6                                   | 7.1                                   | 0.8                                   | 4.3                                   | 0.5                                   | 80                                   | 52                                    | 31        | 6        |
| JPAC280 | 52        | 56      | 4             | 3443        | 760                                   | 1437                    | 201                                    | 667                                   | 106                                   | 23.3                                  | 68                                    | 8.1                                   | 36.3                                  | 5.5                                   | 10.9                                  | 1.3                                   | 6.7                                   | 0.9                                   | 113                                  | 48                                    | 36        | 7        |
| JPAC280 | 56        | 60      | 4             | 3684        | 705                                   | 1548                    | 198                                    | 707                                   | 119                                   | 28                                    | 91                                    | 11.3                                  | 55.8                                  | 8.6                                   | 17.4                                  | 1.9                                   | 9.8                                   | 1.2                                   | 183                                  | 48                                    | 35        | 6        |
| JPAC280 | 60        | 64      | 4             | 2439        | 375                                   | 1265                    | 114                                    | 394                                   | 66                                    | 14.6                                  | 46                                    | 5.5                                   | 27.2                                  | 4.3                                   | 10.1                                  | 1.2                                   | 6.9                                   | 0.8                                   | 108                                  | 51                                    | 39        | 7        |
| JPAC280 | 64        | 68      | 4             | 2179        | 330                                   | 1153                    | 98                                     | 343                                   | 56                                    | 12.5                                  | 37                                    | 4.6                                   | 23.1                                  | 4                                     | 8.9                                   | 1.2                                   | 6.6                                   | 0.9                                   | 102                                  | 43                                    | 30        | 5        |
| JPAC280 | 68        | 72      | 4             | 3005        | 437                                   | 1069                    | 172                                    | 685                                   | 122                                   | 27.2                                  | 82                                    | 10.2                                  | 55.2                                  | 9.5                                   | 24.4                                  | 3.5                                   | 21.3                                  | 3                                     | 284                                  | 40                                    | 28        | 5        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC280 | 72        | 76      | 4             | 2387        | 299                                   | 767                     | 104                                    | 411                                   | 79                                    | 19.1                                  | 74                                    | 9.6                                   | 58.3                                  | 12.4                                  | 36.2                                  | 5.3                                   | 33.1                                  | 5.4                                   | 475                                  | 39                                    | 26        | 6        |
| JPAC281 | 32        | 36      | 4             | 138         | 44                                    | 27                      | 9                                      | 30                                    | 5                                     | 1.3                                   | 4                                     | 0.5                                   | 2.5                                   | 0.4                                   | 1.2                                   | 0.2                                   | 1.1                                   | 0.2                                   | 12                                   | 45                                    | 6         | 1        |
| JPAC281 | 36        | 40      | 4             | 383         | 133                                   | 88                      | 23                                     | 74                                    | 11                                    | 2.7                                   | 9                                     | 1.1                                   | 5.8                                   | 1                                     | 2.6                                   | 0.3                                   | 2.1                                   | 0.4                                   | 29                                   | 49                                    | 14        | 2        |
| JPAC281 | 40        | 44      | 4             | 166         | 38                                    | 51                      | 8                                      | 28                                    | 5                                     | 1.3                                   | 4                                     | 0.7                                   | 3.7                                   | 0.8                                   | 1.9                                   | 0.3                                   | 2.1                                   | 0.3                                   | 21                                   | 47                                    | 12        | 2        |
| JPAC281 | 44        | 48      | 4             | 1158        | 229                                   | 660                     | 44                                     | 139                                   | 21                                    | 4.9                                   | 14                                    | 1.7                                   | 8.3                                   | 1.2                                   | 3.1                                   | 0.3                                   | 1.8                                   | 0.3                                   | 32                                   | 51                                    | 33        | 4        |
| JPAC281 | 48        | 52      | 4             | 2333        | 527                                   | 1253                    | 91                                     | 281                                   | 43                                    | 9.3                                   | 30                                    | 3.6                                   | 17.6                                  | 2.7                                   | 5.4                                   | 0.6                                   | 3.2                                   | 0.4                                   | 67                                   | 45                                    | 32        | 4        |
| JPAC281 | 52        | 56      | 4             | 1520        | 311                                   | 807                     | 60                                     | 198                                   | 32                                    | 6.8                                   | 23                                    | 3                                     | 14.7                                  | 2.3                                   | 4.9                                   | 0.6                                   | 3.3                                   | 0.4                                   | 53                                   | 35                                    | 43        | 2        |
| JPAC281 | 56        | 60      | 4             | 1350        | 254                                   | 731                     | 56                                     | 182                                   | 29                                    | 6.3                                   | 20                                    | 2.5                                   | 12.6                                  | 2                                     | 4.4                                   | 0.5                                   | 3.1                                   | 0.5                                   | 47                                   | 53                                    | 35        | 3        |
| JPAC281 | 60        | 64      | 4             | 4836        | 1261                                  | 1732                    | 297                                    | 1010                                  | 150                                   | 31.6                                  | 88                                    | 10.5                                  | 51.6                                  | 7.5                                   | 17.2                                  | 2.1                                   | 11.2                                  | 1.5                                   | 166                                  | 39                                    | 33        | 2        |
| JPAC281 | 64        | 68      | 4             | 2516        | 468                                   | 1004                    | 99                                     | 353                                   | 55                                    | 12.4                                  | 49                                    | 6.4                                   | 40.1                                  | 8.9                                   | 26.8                                  | 4.1                                   | 25.3                                  | 4                                     | 361                                  | 34                                    | 25        | 2        |
| JPAC281 | 68        | 72      | 4             | 1347        | 326                                   | 629                     | 62                                     | 192                                   | 26                                    | 5.1                                   | 16                                    | 1.9                                   | 9.4                                   | 1.8                                   | 4.6                                   | 0.7                                   | 4.2                                   | 0.6                                   | 68                                   | 33                                    | 24        | 2        |
| JPAC281 | 72        | 76      | 4             | 1472        | 353                                   | 706                     | 69                                     | 219                                   | 30                                    | 5.8                                   | 17                                    | 2                                     | 9.7                                   | 1.6                                   | 3.8                                   | 0.5                                   | 3                                     | 0.4                                   | 52                                   | 32                                    | 25        | 1        |
| JPAC281 | 76        | 80      | 4             | 1429        | 354                                   | 688                     | 65                                     | 203                                   | 27                                    | 5.9                                   | 17                                    | 1.9                                   | 8.9                                   | 1.6                                   | 3.7                                   | 0.6                                   | 3                                     | 0.5                                   | 49                                   | 31                                    | 25        | 1        |
| JPAC281 | 80        | 82      | 2             | 1423        | 357                                   | 694                     | 65                                     | 198                                   | 26                                    | 5.2                                   | 16                                    | 1.8                                   | 8.5                                   | 1.4                                   | 3.6                                   | 0.5                                   | 2.5                                   | 0.3                                   | 45                                   | 32                                    | 25        | 1        |
| JPAC282 | 28        | 32      | 4             | 146         | 43                                    | 62                      | 7                                      | 21                                    | 3                                     | 0.7                                   | 2                                     | 0.2                                   | 1.1                                   | 0.2                                   | 0.7                                   | 0.1                                   | 0.6                                   | 0.1                                   | 6                                    | 37                                    | 43        | 1        |
| JPAC282 | 32        | 36      | 4             | 588         | 170                                   | 287                     | 26                                     | 75                                    | 8                                     | 2.2                                   | 4                                     | 0.5                                   | 2.3                                   | 0.4                                   | 0.9                                   | 0.1                                   | 0.6                                   | 0.1                                   | 10                                   | 31                                    | 45        | 1        |
| JPAC282 | 36        | 40      | 4             | 651         | 192                                   | 296                     | 33                                     | 94                                    | 10                                    | 2.6                                   | 5                                     | 0.5                                   | 2.5                                   | 0.4                                   | 1                                     | 0.1                                   | 0.8                                   | 0.1                                   | 12                                   | 27                                    | 49        | 1        |
| JPAC282 | 40        | 44      | 4             | 1313        | 324                                   | 663                     | 59                                     | 178                                   | 21                                    | 5.5                                   | 12                                    | 1.4                                   | 7.1                                   | 1.2                                   | 2.8                                   | 0.4                                   | 2.1                                   | 0.3                                   | 36                                   | 41                                    | 66        | 2        |
| JPAC282 | 44        | 48      | 4             | 1618        | 345                                   | 848                     | 70                                     | 227                                   | 30                                    | 7.7                                   | 18                                    | 2                                     | 9.9                                   | 1.6                                   | 4.2                                   | 0.5                                   | 3.3                                   | 0.4                                   | 51                                   | 43                                    | 63        | 3        |
| JPAC282 | 48        | 52      | 4             | 1033        | 259                                   | 499                     | 47                                     | 143                                   | 16                                    | 5.3                                   | 11                                    | 1.1                                   | 6.1                                   | 1.2                                   | 3                                     | 0.4                                   | 2.4                                   | 0.4                                   | 39                                   | 37                                    | 45        | 2        |
| JPAC282 | 52        | 56      | 4             | 704         | 178                                   | 335                     | 32                                     | 100                                   | 12                                    | 3.8                                   | 7                                     | 0.8                                   | 4.2                                   | 0.8                                   | 1.9                                   | 0.3                                   | 1.8                                   | 0.3                                   | 25                                   | 36                                    | 35        | 2        |
| JPAC282 | 56        | 60      | 4             | 654         | 161                                   | 319                     | 30                                     | 91                                    | 11                                    | 3.7                                   | 7                                     | 0.8                                   | 3.9                                   | 0.7                                   | 2                                     | 0.2                                   | 1.6                                   | 0.3                                   | 22                                   | 35                                    | 35        | 2        |
| JPAC282 | 60        | 64      | 4             | 623         | 116                                   | 276                     | 33                                     | 115                                   | 19                                    | 4.3                                   | 12                                    | 1.3                                   | 6.8                                   | 1.1                                   | 2.7                                   | 0.4                                   | 2.5                                   | 0.4                                   | 34                                   | 35                                    | 20        | 3        |
| JPAC282 | 64        | 68      | 4             | 963         | 174                                   | 441                     | 48                                     | 173                                   | 28                                    | 6.1                                   | 17                                    | 2                                     | 9.9                                   | 1.6                                   | 4.3                                   | 0.6                                   | 3.5                                   | 0.6                                   | 54                                   | 33                                    | 21        | 4        |
| JPAC282 | 68        | 72      | 4             | 1187        | 219                                   | 528                     | 62                                     | 218                                   | 34                                    | 7.2                                   | 23                                    | 2.7                                   | 13                                    | 2.1                                   | 5.6                                   | 0.7                                   | 4.2                                   | 0.6                                   | 67                                   | 29                                    | 24        | 4        |
| JPAC283 | 32        | 36      | 4             | 105         | 29                                    | 43                      | 5                                      | 15                                    | 2                                     | 0.5                                   | 1                                     | 0.2                                   | 1.2                                   | 0.2                                   | 0.8                                   | 0.1                                   | 1                                     | 0.2                                   | 6                                    | 49                                    | 50        | 2        |
| JPAC283 | 36        | 40      | 4             | 1458        | 393                                   | 749                     | 57                                     | 173                                   | 20                                    | 4.9                                   | 12                                    | 1.3                                   | 7.3                                   | 1.1                                   | 2.9                                   | 0.4                                   | 2.3                                   | 0.4                                   | 34                                   | 49                                    | 25        | 2        |
| JPAC283 | 40        | 44      | 4             | 1811        | 493                                   | 907                     | 80                                     | 240                                   | 26                                    | 5.7                                   | 15                                    | 1.5                                   | 6.7                                   | 1.1                                   | 2.7                                   | 0.3                                   | 2.2                                   | 0.2                                   | 31                                   | 41                                    | 32        | 3        |
| JPAC283 | 44        | 48      | 4             | 2245        | 623                                   | 989                     | 110                                    | 353                                   | 43                                    | 9.3                                   | 24                                    | 2.6                                   | 11.4                                  | 2.1                                   | 5.5                                   | 0.7                                   | 4.5                                   | 0.7                                   | 67                                   | 35                                    | 26        | 3        |
| JPAC283 | 48        | 52      | 4             | 1603        | 459                                   | 727                     | 74                                     | 226                                   | 25                                    | 6.1                                   | 16                                    | 1.7                                   | 8.1                                   | 1.4                                   | 3.9                                   | 0.6                                   | 3.6                                   | 0.5                                   | 50                                   | 35                                    | 27        | 2        |
| JPAC283 | 52        | 56      | 4             | 1535        | 425                                   | 701                     | 69                                     | 220                                   | 26                                    | 5.6                                   | 15                                    | 1.6                                   | 8.5                                   | 1.4                                   | 4.1                                   | 0.5                                   | 3                                     | 0.5                                   | 53                                   | 38                                    | 25        | 3        |
| JPAC283 | 56        | 60      | 4             | 1570        | 387                                   | 722                     | 78                                     | 254                                   | 31                                    | 6.8                                   | 19                                    | 2                                     | 9.4                                   | 1.5                                   | 4.1                                   | 0.5                                   | 3.2                                   | 0.5                                   | 52                                   | 35                                    | 21        | 3        |
| JPAC283 | 60        | 64      | 4             | 1444        | 376                                   | 667                     | 71                                     | 225                                   | 26                                    | 6.2                                   | 15                                    | 1.7                                   | 7.2                                   | 1.3                                   | 3.4                                   | 0.4                                   | 2.4                                   | 0.3                                   | 41                                   | 34                                    | 24        | 3        |
| JPAC283 | 64        | 68      | 4             | 1346        | 358                                   | 630                     | 65                                     | 201                                   | 22                                    | 5.5                                   | 13                                    | 1.5                                   | 7                                     | 1.2                                   | 3                                     | 0.3                                   | 2                                     | 0.3                                   | 37                                   | 34                                    | 23        | 3        |
| JPAC283 | 68        | 72      | 4             | 1381        | 394                                   | 638                     | 65                                     | 198                                   | 22                                    | 5                                     | 13                                    | 1.3                                   | 6.1                                   | 1                                     | 2.3                                   | 0.3                                   | 2                                     | 0.2                                   | 33                                   | 30                                    | 23        | 2        |
| JPAC283 | 72        | 76      | 4             | 1093        | 301                                   | 500                     | 52                                     | 164                                   | 19                                    | 4.6                                   | 12                                    | 1.2                                   | 5.1                                   | 0.8                                   | 2.5                                   | 0.3                                   | 1.9                                   | 0.3                                   | 29                                   | 32                                    | 17        | 1        |
| JPAC283 | 76        | 78      | 2             | 1151        | 310                                   | 529                     | 53                                     | 174                                   | 21                                    | 4.9                                   | 13                                    | 1.3                                   | 6.7                                   | 1                                     | 2.8                                   | 0.3                                   | 2                                     | 0.2                                   | 31                                   | 32                                    | 16        | 1        |
| JPAC284 | 32        | 36      | 4             | 74          | 17                                    | 30                      | 3                                      | 10                                    | 2                                     | 0.2                                   | 1                                     | 0.2                                   | 1.2                                   | 0.2                                   | 0.8                                   | 0.1                                   | 1.1                                   | 0.2                                   | 7                                    | 58                                    | 35        | 2        |
| JPAC284 | 36        | 40      | 4             | 834         | 203                                   | 383                     | 39                                     | 134                                   | 19                                    | 4.6                                   | 13                                    | 1.5                                   | 7.1                                   | 1                                     | 2.6                                   | 0.3                                   | 1.9                                   | 0.2                                   | 24                                   | 44                                    | 22        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC284 | 40        | 44      | 4             | 1213        | 300                                   | 572                     | 60                                     | 192                                   | 23                                    | 4.9                                   | 14                                    | 1.5                                   | 6.8                                   | 1.2                                   | 3.1                                   | 0.4                                   | 1.9                                   | 0.2                                   | 32                                   | 43                                    | 40        | 2        |
| JPAC284 | 44        | 48      | 4             | 2375        | 517                                   | 1165                    | 123                                    | 411                                   | 55                                    | 11.1                                  | 27                                    | 2.9                                   | 13                                    | 1.8                                   | 3.9                                   | 0.5                                   | 2.9                                   | 0.3                                   | 43                                   | 40                                    | 39        | 4        |
| JPAC284 | 48        | 52      | 4             | 1655        | 386                                   | 762                     | 81                                     | 271                                   | 34                                    | 8.9                                   | 21                                    | 2.4                                   | 11.9                                  | 2.1                                   | 5.7                                   | 0.7                                   | 4.7                                   | 0.6                                   | 64                                   | 37                                    | 24        | 2        |
| JPAC284 | 52        | 56      | 4             | 1251        | 293                                   | 571                     | 63                                     | 206                                   | 26                                    | 6                                     | 15                                    | 1.6                                   | 8.6                                   | 1.5                                   | 4                                     | 0.5                                   | 3.1                                   | 0.4                                   | 52                                   | 30                                    | 18        | 2        |
| JPAC284 | 56        | 60      | 4             | 1306        | 306                                   | 611                     | 68                                     | 217                                   | 25                                    | 6                                     | 15                                    | 1.6                                   | 8                                     | 1.3                                   | 3.6                                   | 0.4                                   | 2.6                                   | 0.3                                   | 42                                   | 32                                    | 20        | 2        |
| JPAC284 | 60        | 64      | 4             | 1389        | 338                                   | 645                     | 70                                     | 225                                   | 27                                    | 6                                     | 16                                    | 1.6                                   | 8.1                                   | 1.4                                   | 3.7                                   | 0.5                                   | 2.7                                   | 0.4                                   | 45                                   | 32                                    | 22        | 2        |
| JPAC284 | 64        | 67      | 3             | 1375        | 341                                   | 640                     | 69                                     | 219                                   | 25                                    | 5.7                                   | 15                                    | 1.6                                   | 7.4                                   | 1.3                                   | 3.6                                   | 0.4                                   | 2.6                                   | 0.4                                   | 44                                   | 32                                    | 23        | 2        |
| JPAC285 | 32        | 36      | 4             | 213         | 69                                    | 85                      | 11                                     | 29                                    | 4                                     | 0.9                                   | 2                                     | 0.3                                   | 1.5                                   | 0.3                                   | 1                                     | 0.1                                   | 1.2                                   | 0.1                                   | 8                                    | 74                                    | 46        | 2        |
| JPAC285 | 36        | 40      | 4             | 811         | 267                                   | 278                     | 49                                     | 150                                   | 18                                    | 4.2                                   | 10                                    | 1.1                                   | 4.9                                   | 0.9                                   | 2.4                                   | 0.3                                   | 1.8                                   | 0.2                                   | 23                                   | 53                                    | 35        | 2        |
| JPAC285 | 40        | 44      | 4             | 1503        | 380                                   | 701                     | 73                                     | 226                                   | 30                                    | 7.2                                   | 18                                    | 2                                     | 9.3                                   | 1.6                                   | 4.1                                   | 0.5                                   | 2.8                                   | 0.3                                   | 48                                   | 59                                    | 32        | 2        |
| JPAC285 | 44        | 48      | 4             | 1660        | 407                                   | 739                     | 86                                     | 282                                   | 39                                    | 8.9                                   | 22                                    | 2.3                                   | 11.4                                  | 1.7                                   | 4.7                                   | 0.6                                   | 3.3                                   | 0.4                                   | 51                                   | 50                                    | 37        | 3        |
| JPAC285 | 48        | 52      | 4             | 1810        | 378                                   | 877                     | 85                                     | 294                                   | 41                                    | 9.4                                   | 25                                    | 2.7                                   | 13.8                                  | 2.4                                   | 6.2                                   | 0.8                                   | 4.6                                   | 0.6                                   | 71                                   | 50                                    | 39        | 4        |
| JPAC285 | 52        | 56      | 4             | 2468        | 544                                   | 1188                    | 116                                    | 395                                   | 50                                    | 12.1                                  | 32                                    | 3.4                                   | 16.8                                  | 3                                     | 7.8                                   | 1                                     | 6.6                                   | 0.8                                   | 92                                   | 44                                    | 36        | 3        |
| JPAC285 | 56        | 60      | 4             | 2094        | 484                                   | 968                     | 106                                    | 355                                   | 44                                    | 9.4                                   | 27                                    | 2.8                                   | 13.5                                  | 2.4                                   | 6.4                                   | 0.8                                   | 5.8                                   | 0.7                                   | 70                                   | 49                                    | 42        | 3        |
| JPAC285 | 60        | 64      | 4             | 2447        | 563                                   | 1107                    | 127                                    | 433                                   | 55                                    | 11.7                                  | 30                                    | 3.2                                   | 15.4                                  | 2.7                                   | 7                                     | 0.9                                   | 5.9                                   | 0.9                                   | 85                                   | 45                                    | 38        | 3        |
| JPAC285 | 64        | 68      | 4             | 1383        | 313                                   | 644                     | 68                                     | 234                                   | 32                                    | 6.6                                   | 17                                    | 1.8                                   | 9.1                                   | 1.6                                   | 4.3                                   | 0.5                                   | 3.4                                   | 0.5                                   | 47                                   | 35                                    | 27        | 2        |
| JPAC286 | 44        | 48      | 4             | 647         | 118                                   | 419                     | 21                                     | 64                                    | 8                                     | 1.8                                   | 4                                     | 0.4                                   | 1.8                                   | 0.3                                   | 0.9                                   | 0.1                                   | 0.8                                   | 0.1                                   | 8                                    | 37                                    | 31        | 3        |
| JPAC286 | 48        | 52      | 4             | 951         | 267                                   | 398                     | 46                                     | 150                                   | 22                                    | 5.2                                   | 13                                    | 1.5                                   | 7.5                                   | 1.1                                   | 3                                     | 0.3                                   | 1.9                                   | 0.2                                   | 34                                   | 42                                    | 30        | 3        |
| JPAC286 | 52        | 56      | 4             | 2071        | 665                                   | 753                     | 102                                    | 331                                   | 43                                    | 9.6                                   | 30                                    | 2.9                                   | 14.7                                  | 2.7                                   | 7.3                                   | 0.8                                   | 4.7                                   | 0.5                                   | 103                                  | 44                                    | 25        | 4        |
| JPAC286 | 56        | 60      | 4             | 1283        | 277                                   | 671                     | 53                                     | 178                                   | 27                                    | 5.6                                   | 16                                    | 1.7                                   | 7.8                                   | 1.3                                   | 3.2                                   | 0.4                                   | 2.7                                   | 0.4                                   | 40                                   | 43                                    | 25        | 3        |
| JPAC286 | 60        | 64      | 4             | 1589        | 475                                   | 595                     | 87                                     | 280                                   | 35                                    | 7.3                                   | 22                                    | 2.3                                   | 12.1                                  | 2                                     | 5.1                                   | 0.6                                   | 4.3                                   | 0.6                                   | 63                                   | 43                                    | 26        | 3        |
| JPAC286 | 64        | 68      | 4             | 2308        | 789                                   | 656                     | 149                                    | 478                                   | 61                                    | 13                                    | 37                                    | 3.8                                   | 17.9                                  | 3                                     | 8.3                                   | 0.9                                   | 5.8                                   | 0.7                                   | 85                                   | 42                                    | 25        | 3        |
| JPAC286 | 68        | 72      | 4             | 3480        | 946                                   | 1370                    | 208                                    | 679                                   | 80                                    | 15.1                                  | 41                                    | 4.2                                   | 19.4                                  | 3.2                                   | 8.9                                   | 0.9                                   | 6.4                                   | 0.9                                   | 97                                   | 40                                    | 24        | 2        |
| JPAC286 | 72        | 76      | 4             | 3355        | 528                                   | 2082                    | 130                                    | 433                                   | 54                                    | 10.5                                  | 27                                    | 2.9                                   | 12.1                                  | 2.1                                   | 5.2                                   | 0.7                                   | 4.9                                   | 0.5                                   | 63                                   | 38                                    | 24        | 2        |
| JPAC286 | 76        | 80      | 4             | 2065        | 406                                   | 1016                    | 99                                     | 353                                   | 48                                    | 9.5                                   | 26                                    | 2.8                                   | 13.2                                  | 2.4                                   | 6.6                                   | 0.9                                   | 7.4                                   | 1.1                                   | 74                                   | 30                                    | 22        | 1        |
| JPAC286 | 80        | 83      | 3             | 1198        | 259                                   | 603                     | 57                                     | 191                                   | 23                                    | 4.8                                   | 13                                    | 1.3                                   | 6.2                                   | 1.1                                   | 3                                     | 0.4                                   | 2.4                                   | 0.3                                   | 34                                   | 29                                    | 18        | 2        |
| JPAC287 | 12        | 16      | 4             | 74          | 21                                    | 29                      | 3                                      | 10                                    | 2                                     | 0.3                                   | 1                                     | 0.2                                   | 0.9                                   | 0.2                                   | 0.5                                   | 0.1                                   | 0.7                                   | 0.1                                   | 5                                    | 23                                    | 15        | 1        |
| JPAC287 | 16        | 20      | 4             | 660         | 126                                   | 339                     | 26                                     | 98                                    | 17                                    | 3.5                                   | 11                                    | 1.3                                   | 7.1                                   | 1                                     | 2.5                                   | 0.3                                   | 1.8                                   | 0.2                                   | 26                                   | 40                                    | 30        | 2        |
| JPAC287 | 20        | 24      | 4             | 689         | 135                                   | 360                     | 27                                     | 98                                    | 15                                    | 3.9                                   | 10                                    | 1                                     | 5.2                                   | 1                                     | 2.7                                   | 0.3                                   | 2                                     | 0.2                                   | 28                                   | 42                                    | 23        | 1        |
| JPAC287 | 24        | 28      | 4             | 634         | 173                                   | 317                     | 28                                     | 83                                    | 9                                     | 2.8                                   | 5                                     | 0.5                                   | 2.6                                   | 0.4                                   | 1.1                                   | 0.1                                   | 0.9                                   | 0.1                                   | 12                                   | 45                                    | 47        | 1        |
| JPAC287 | 28        | 32      | 4             | 329         | 100                                   | 138                     | 17                                     | 50                                    | 6                                     | 1.4                                   | 3                                     | 0.4                                   | 1.6                                   | 0.3                                   | 0.8                                   | 0.1                                   | 0.8                                   | 0.1                                   | 9                                    | 33                                    | 43        | 1        |
| JPAC287 | 32        | 36      | 4             | 463         | 138                                   | 190                     | 24                                     | 72                                    | 9                                     | 1.7                                   | 5                                     | 0.7                                   | 3.5                                   | 0.5                                   | 1.3                                   | 0.2                                   | 1.3                                   | 0.1                                   | 16                                   | 32                                    | 37        | 1        |
| JPAC287 | 36        | 40      | 4             | 444         | 126                                   | 199                     | 22                                     | 66                                    | 8                                     | 1.5                                   | 5                                     | 0.5                                   | 2.4                                   | 0.4                                   | 1                                     | 0.1                                   | 0.7                                   | 0.1                                   | 13                                   | 30                                    | 37        | 1        |
| JPAC287 | 40        | 44      | 4             | 709         | 145                                   | 386                     | 29                                     | 100                                   | 13                                    | 2.7                                   | 7                                     | 0.8                                   | 3.5                                   | 0.6                                   | 1.6                                   | 0.2                                   | 1.3                                   | 0.1                                   | 18                                   | 30                                    | 38        | 1        |
| JPAC287 | 44        | 48      | 4             | 581         | 138                                   | 274                     | 27                                     | 87                                    | 12                                    | 2.5                                   | 8                                     | 0.8                                   | 4.2                                   | 0.8                                   | 2.1                                   | 0.2                                   | 1.4                                   | 0.2                                   | 24                                   | 28                                    | 39        | 1        |
| JPAC287 | 48        | 52      | 4             | 915         | 200                                   | 436                     | 39                                     | 145                                   | 22                                    | 4.9                                   | 14                                    | 1.6                                   | 7.8                                   | 1.3                                   | 3.8                                   | 0.5                                   | 3.1                                   | 0.4                                   | 37                                   | 30                                    | 38        | 1        |
| JPAC287 | 52        | 56      | 4             | 1700        | 306                                   | 747                     | 86                                     | 331                                   | 58                                    | 10.6                                  | 36                                    | 4.1                                   | 18.4                                  | 3                                     | 8.4                                   | 1.1                                   | 7.8                                   | 1.1                                   | 83                                   | 38                                    | 22        | 3        |
| JPAC287 | 56        | 60      | 4             | 1418        | 318                                   | 631                     | 67                                     | 234                                   | 37                                    | 7.3                                   | 22                                    | 2.4                                   | 12.5                                  | 2.3                                   | 6                                     | 0.9                                   | 6.4                                   | 0.9                                   | 70                                   | 40                                    | 34        | 3        |
| JPAC287 | 60        | 64      | 4             | 934         | 200                                   | 415                     | 42                                     | 150                                   | 25                                    | 5                                     | 16                                    | 1.8                                   | 8.9                                   | 1.7                                   | 4.7                                   | 0.6                                   | 3.9                                   | 0.6                                   | 59                                   | 41                                    | 30        | 3        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC287 | 64        | 66      | 2             | 592         | 116                                   | 244                     | 27                                     | 100                                   | 18                                    | 4                                     | 13                                    | 1.5                                   | 8.4                                   | 1.5                                   | 4.5                                   | 0.5                                   | 4                                     | 0.5                                   | 50                                   | 34                                    | 13        | 3        |
| JPAC288 | 8         | 12      | 4             | 135         | 33                                    | 57                      | 6                                      | 19                                    | 3                                     | 0.6                                   | 2                                     | 0.3                                   | 1.4                                   | 0.3                                   | 1.1                                   | 0.1                                   | 1.2                                   | 0.2                                   | 10                                   | 26                                    | 15        | 1        |
| JPAC288 | 12        | 16      | 4             | 794         | 225                                   | 299                     | 41                                     | 143                                   | 22                                    | 4.1                                   | 13                                    | 1.4                                   | 6.4                                   | 1.1                                   | 2.9                                   | 0.3                                   | 2.2                                   | 0.3                                   | 34                                   | 56                                    | 39        | 2        |
| JPAC288 | 16        | 20      | 4             | 1778        | 425                                   | 819                     | 85                                     | 289                                   | 44                                    | 8.3                                   | 24                                    | 2.7                                   | 12.4                                  | 2.1                                   | 5                                     | 0.6                                   | 3.7                                   | 0.5                                   | 58                                   | 63                                    | 40        | 2        |
| JPAC288 | 20        | 24      | 4             | 1675        | 332                                   | 925                     | 68                                     | 228                                   | 37                                    | 6.2                                   | 20                                    | 2.1                                   | 9.3                                   | 1.5                                   | 3.5                                   | 0.4                                   | 2.6                                   | 0.3                                   | 41                                   | 48                                    | 26        | 2        |
| JPAC288 | 24        | 28      | 4             | 1835        | 341                                   | 954                     | 78                                     | 279                                   | 46                                    | 8.1                                   | 28                                    | 3.1                                   | 14.9                                  | 2.4                                   | 5.8                                   | 0.7                                   | 4                                     | 0.5                                   | 70                                   | 43                                    | 32        | 3        |
| JPAC288 | 28        | 32      | 4             | 1533        | 291                                   | 790                     | 59                                     | 200                                   | 31                                    | 7.1                                   | 21                                    | 2.2                                   | 12.1                                  | 2.4                                   | 8                                     | 1.2                                   | 8.6                                   | 1.1                                   | 100                                  | 44                                    | 33        | 2        |
| JPAC288 | 32        | 36      | 4             | 1876        | 347                                   | 1146                    | 61                                     | 194                                   | 27                                    | 6.7                                   | 15                                    | 1.8                                   | 8.8                                   | 1.6                                   | 4.4                                   | 0.6                                   | 4.5                                   | 0.6                                   | 56                                   | 47                                    | 47        | 3        |
| JPAC288 | 36        | 40      | 4             | 2722        | 416                                   | 1603                    | 103                                    | 376                                   | 63                                    | 11.5                                  | 37                                    | 4.1                                   | 19.3                                  | 2.9                                   | 7.1                                   | 0.8                                   | 5.2                                   | 0.8                                   | 73                                   | 45                                    | 33        | 5        |
| JPAC288 | 40        | 44      | 4             | 1800        | 319                                   | 935                     | 75                                     | 275                                   | 45                                    | 8.4                                   | 29                                    | 3.2                                   | 16.2                                  | 2.7                                   | 6.7                                   | 1                                     | 6.7                                   | 0.9                                   | 77                                   | 34                                    | 42        | 4        |
| JPAC288 | 44        | 48      | 4             | 1621        | 315                                   | 695                     | 75                                     | 271                                   | 45                                    | 7.8                                   | 30                                    | 3.4                                   | 18.6                                  | 3.6                                   | 11                                    | 1.7                                   | 11.2                                  | 2                                     | 132                                  | 33                                    | 39        | 5        |
| JPAC288 | 48        | 49      | 1             | 1062        | 227                                   | 477                     | 52                                     | 184                                   | 28                                    | 4.9                                   | 18                                    | 1.9                                   | 10                                    | 1.6                                   | 3.9                                   | 0.5                                   | 3.4                                   | 0.6                                   | 51                                   | 29                                    | 31        | 4        |
| JPAC289 | 4         | 8       | 4             | 204         | 41                                    | 93                      | 9                                      | 29                                    | 5                                     | 1                                     | 3                                     | 0.5                                   | 2.9                                   | 0.5                                   | 1.8                                   | 0.2                                   | 1.6                                   | 0.2                                   | 16                                   | 28                                    | 19        | 2        |
| JPAC289 | 8         | 12      | 4             | 1171        | 243                                   | 555                     | 64                                     | 223                                   | 32                                    | 6.4                                   | 15                                    | 1.3                                   | 6.4                                   | 0.8                                   | 2                                     | 0.2                                   | 1.7                                   | 0.3                                   | 20                                   | 39                                    | 17        | 3        |
| JPAC289 | 12        | 16      | 4             | 1175        | 237                                   | 554                     | 65                                     | 233                                   | 34                                    | 6.1                                   | 15                                    | 1.5                                   | 5.9                                   | 0.9                                   | 1.8                                   | 0.3                                   | 1.6                                   | 0.2                                   | 19                                   | 37                                    | 16        | 2        |
| JPAC289 | 16        | 20      | 4             | 1289        | 171                                   | 436                     | 56                                     | 233                                   | 52                                    | 12.2                                  | 42                                    | 5.4                                   | 31.7                                  | 5.6                                   | 16.7                                  | 2.4                                   | 15                                    | 2.1                                   | 208                                  | 29                                    | 12        | 3        |
| JPAC289 | 20        | 24      | 4             | 1217        | 205                                   | 482                     | 57                                     | 219                                   | 41                                    | 9.4                                   | 33                                    | 3.9                                   | 21.3                                  | 3.7                                   | 9.3                                   | 1.3                                   | 7.3                                   | 1                                     | 125                                  | 30                                    | 16        | 3        |
| JPAC289 | 24        | 27      | 3             | 1205        | 215                                   | 477                     | 57                                     | 213                                   | 40                                    | 8.7                                   | 32                                    | 3.7                                   | 20.5                                  | 3.4                                   | 8.8                                   | 1.2                                   | 7.4                                   | 1.1                                   | 116                                  | 32                                    | 17        | 5        |
| JPAC290 | 8         | 12      | 4             | 95          | 24                                    | 37                      | 4                                      | 14                                    | 2                                     | 0.5                                   | 2                                     | 0.2                                   | 1.3                                   | 0.3                                   | 0.7                                   | 0.1                                   | 0.8                                   | 0.1                                   | 7                                    | 25                                    | 11        | 1        |
| JPAC290 | 12        | 16      | 4             | 494         | 131                                   | 208                     | 25                                     | 84                                    | 14                                    | 2.8                                   | 7                                     | 0.7                                   | 3.9                                   | 0.5                                   | 1.4                                   | 0.2                                   | 1                                     | 0.1                                   | 15                                   | 42                                    | 26        | 2        |
| JPAC290 | 16        | 20      | 4             | 1194        | 257                                   | 572                     | 59                                     | 206                                   | 32                                    | 6.3                                   | 16                                    | 1.7                                   | 8.1                                   | 1.1                                   | 2.4                                   | 0.3                                   | 1.5                                   | 0.2                                   | 30                                   | 48                                    | 24        | 2        |
| JPAC290 | 20        | 24      | 4             | 1431        | 286                                   | 612                     | 75                                     | 276                                   | 48                                    | 10.2                                  | 29                                    | 3.4                                   | 15.7                                  | 2.4                                   | 5.6                                   | 0.6                                   | 3.1                                   | 0.4                                   | 65                                   | 49                                    | 20        | 2        |
| JPAC290 | 24        | 28      | 4             | 2119        | 369                                   | 875                     | 101                                    | 395                                   | 74                                    | 15.3                                  | 48                                    | 5.6                                   | 29.7                                  | 5.2                                   | 13.2                                  | 1.8                                   | 11.8                                  | 1.8                                   | 172                                  | 46                                    | 44        | 3        |
| JPAC290 | 28        | 32      | 4             | 1901        | 365                                   | 825                     | 95                                     | 372                                   | 71                                    | 14.7                                  | 42                                    | 4.6                                   | 21.8                                  | 3                                     | 6.7                                   | 0.8                                   | 4.4                                   | 0.4                                   | 75                                   | 47                                    | 23        | 4        |
| JPAC290 | 32        | 36      | 4             | 1690        | 308                                   | 701                     | 82                                     | 321                                   | 63                                    | 14.3                                  | 46                                    | 5                                     | 26.2                                  | 4.2                                   | 9.2                                   | 1.1                                   | 5.1                                   | 0.6                                   | 104                                  | 43                                    | 22        | 4        |
| JPAC290 | 36        | 40      | 4             | 1752        | 318                                   | 725                     | 84                                     | 335                                   | 66                                    | 13.8                                  | 46                                    | 5.4                                   | 26.9                                  | 4.3                                   | 10.2                                  | 1                                     | 5.8                                   | 0.8                                   | 111                                  | 43                                    | 23        | 4        |
| JPAC290 | 40        | 44      | 4             | 1438        | 258                                   | 577                     | 70                                     | 274                                   | 52                                    | 11.1                                  | 35                                    | 4.1                                   | 20.7                                  | 3.5                                   | 10.1                                  | 1.4                                   | 8.6                                   | 1.4                                   | 112                                  | 37                                    | 19        | 3        |
| JPAC290 | 44        | 48      | 4             | 1169        | 211                                   | 474                     | 55                                     | 213                                   | 41                                    | 8.4                                   | 27                                    | 3                                     | 16                                    | 2.7                                   | 7.8                                   | 1                                     | 6.3                                   | 1.1                                   | 103                                  | 34                                    | 16        | 3        |
| JPAC290 | 48        | 52      | 4             | 1107        | 201                                   | 470                     | 56                                     | 212                                   | 40                                    | 8.4                                   | 26                                    | 2.9                                   | 14.1                                  | 2.1                                   | 5.3                                   | 0.7                                   | 3.9                                   | 0.5                                   | 65                                   | 29                                    | 16        | 3        |
| JPAC290 | 52        | 56      | 4             | 1159        | 215                                   | 501                     | 57                                     | 216                                   | 41                                    | 8.5                                   | 25                                    | 3.1                                   | 13.8                                  | 2.2                                   | 5.4                                   | 0.7                                   | 4                                     | 0.5                                   | 67                                   | 29                                    | 17        | 4        |
| JPAC290 | 56        | 59      | 3             | 1066        | 199                                   | 462                     | 53                                     | 199                                   | 37                                    | 7.1                                   | 23                                    | 2.6                                   | 12.7                                  | 1.9                                   | 4.7                                   | 0.7                                   | 3.9                                   | 0.5                                   | 60                                   | 30                                    | 16        | 4        |
| JPAC291 | 20        | 24      | 4             | 175         | 44                                    | 71                      | 8                                      | 29                                    | 5                                     | 1.1                                   | 3                                     | 0.4                                   | 2.1                                   | 0.4                                   | 1                                     | 0.1                                   | 1.1                                   | 0.2                                   | 10                                   | 55                                    | 35        | 3        |
| JPAC291 | 24        | 28      | 4             | 1019        | 229                                   | 445                     | 49                                     | 173                                   | 31                                    | 6.4                                   | 18                                    | 2.1                                   | 10.8                                  | 1.7                                   | 4                                     | 0.5                                   | 2.8                                   | 0.3                                   | 47                                   | 63                                    | 48        | 3        |
| JPAC291 | 28        | 32      | 4             | 1011        | 198                                   | 467                     | 42                                     | 159                                   | 30                                    | 7.7                                   | 22                                    | 2.6                                   | 12.9                                  | 2.2                                   | 5.5                                   | 0.7                                   | 3.4                                   | 0.5                                   | 59                                   | 60                                    | 37        | 3        |
| JPAC291 | 32        | 36      | 4             | 484         | 99                                    | 195                     | 22                                     | 80                                    | 13                                    | 4.6                                   | 10                                    | 1.2                                   | 7.1                                   | 1.3                                   | 3.4                                   | 0.4                                   | 2.3                                   | 0.3                                   | 43                                   | 42                                    | 17        | 2        |
| JPAC291 | 36        | 40      | 4             | 486         | 100                                   | 214                     | 22                                     | 80                                    | 14                                    | 3.9                                   | 9                                     | 1                                     | 5.4                                   | 0.9                                   | 2.5                                   | 0.4                                   | 2.1                                   | 0.3                                   | 31                                   | 40                                    | 13        | 2        |
| JPAC291 | 40        | 44      | 4             | 673         | 114                                   | 318                     | 30                                     | 118                                   | 18                                    | 6.1                                   | 13                                    | 1.6                                   | 7.4                                   | 1.3                                   | 3.9                                   | 0.4                                   | 3.1                                   | 0.4                                   | 39                                   | 39                                    | 14        | 2        |
| JPAC291 | 44        | 48      | 4             | 527         | 89                                    | 222                     | 26                                     | 101                                   | 17                                    | 5.6                                   | 12                                    | 1.4                                   | 6.9                                   | 1.3                                   | 3.7                                   | 0.4                                   | 3                                     | 0.5                                   | 38                                   | 39                                    | 13        | 2        |
| JPAC291 | 48        | 52      | 4             | 350         | 64                                    | 129                     | 15                                     | 63                                    | 12                                    | 4.4                                   | 9                                     | 1.2                                   | 6                                     | 1.1                                   | 3.3                                   | 0.4                                   | 3.7                                   | 0.6                                   | 38                                   | 37                                    | 12        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC292 | 16        | 20      | 4             | 106         | 26                                    | 38                      | 5                                      | 16                                    | 3                                     | 0.6                                   | 2                                     | 0.3                                   | 2.1                                   | 0.4                                   | 1.2                                   | 0.2                                   | 1.7                                   | 0.2                                   | 11                                   | 46                                    | 31        | 3        |
| JPAC292 | 20        | 24      | 4             | 495         | 155                                   | 166                     | 28                                     | 94                                    | 13                                    | 3                                     | 9                                     | 1                                     | 4.4                                   | 0.7                                   | 1.8                                   | 0.2                                   | 1.3                                   | 0.2                                   | 19                                   | 52                                    | 47        | 2        |
| JPAC292 | 24        | 28      | 4             | 2409        | 453                                   | 919                     | 115                                    | 499                                   | 94                                    | 23.1                                  | 72                                    | 7.9                                   | 35.3                                  | 5.6                                   | 14.9                                  | 1.7                                   | 9                                     | 1.1                                   | 159                                  | 48                                    | 32        | 3        |
| JPAC292 | 28        | 32      | 4             | 2664        | 434                                   | 1505                    | 95                                     | 366                                   | 62                                    | 13.8                                  | 45                                    | 5                                     | 22.3                                  | 3.5                                   | 9.1                                   | 1                                     | 5                                     | 0.4                                   | 99                                   | 40                                    | 25        | 3        |
| JPAC292 | 32        | 36      | 4             | 2631        | 368                                   | 1566                    | 98                                     | 357                                   | 56                                    | 12.2                                  | 37                                    | 4.2                                   | 19                                    | 3.1                                   | 8.5                                   | 0.9                                   | 5.1                                   | 0.6                                   | 96                                   | 42                                    | 34        | 6        |
| JPAC292 | 36        | 40      | 4             | 1635        | 300                                   | 771                     | 80                                     | 297                                   | 47                                    | 9.9                                   | 29                                    | 3.2                                   | 14.5                                  | 2.5                                   | 6                                     | 0.7                                   | 4.6                                   | 0.6                                   | 68                                   | 42                                    | 33        | 6        |
| JPAC292 | 40        | 44      | 4             | 1633        | 300                                   | 700                     | 84                                     | 324                                   | 55                                    | 12.1                                  | 38                                    | 4.4                                   | 19.5                                  | 3                                     | 7.1                                   | 0.8                                   | 4.9                                   | 0.8                                   | 79                                   | 45                                    | 42        | 7        |
| JPAC292 | 44        | 48      | 4             | 1458        | 221                                   | 553                     | 67                                     | 279                                   | 53                                    | 12.6                                  | 45                                    | 5.7                                   | 30.1                                  | 5.4                                   | 15                                    | 1.9                                   | 11.3                                  | 1.2                                   | 158                                  | 35                                    | 28        | 5        |
| JPAC292 | 48        | 52      | 4             | 1335        | 227                                   | 552                     | 65                                     | 257                                   | 45                                    | 9.9                                   | 33                                    | 3.9                                   | 17.6                                  | 3.2                                   | 8.8                                   | 1.2                                   | 7.8                                   | 1.2                                   | 104                                  | 31                                    | 24        | 6        |
| JPAC292 | 52        | 56      | 4             | 1104        | 208                                   | 466                     | 53                                     | 204                                   | 35                                    | 8.5                                   | 26                                    | 2.8                                   | 13.3                                  | 2.2                                   | 6.3                                   | 0.8                                   | 4.5                                   | 0.6                                   | 74                                   | 30                                    | 20        | 5        |
| JPAC292 | 56        | 60      | 4             | 1059        | 179                                   | 441                     | 54                                     | 210                                   | 37                                    | 8.2                                   | 27                                    | 3                                     | 13.7                                  | 2.5                                   | 6.3                                   | 0.8                                   | 4.8                                   | 0.8                                   | 72                                   | 28                                    | 19        | 4        |
| JPAC292 | 60        | 63      | 3             | 1140        | 199                                   | 478                     | 57                                     | 219                                   | 39                                    | 8.8                                   | 27                                    | 3.1                                   | 15.4                                  | 2.7                                   | 6.7                                   | 0.9                                   | 4.9                                   | 0.7                                   | 78                                   | 28                                    | 21        | 4        |
| JPAC293 | 16        | 20      | 4             | 324         | 75                                    | 147                     | 14                                     | 48                                    | 8                                     | 1.7                                   | 5                                     | 0.6                                   | 3.3                                   | 0.6                                   | 1.6                                   | 0.2                                   | 1.9                                   | 0.3                                   | 17                                   | 51                                    | 34        | 3        |
| JPAC293 | 20        | 24      | 4             | 1676        | 320                                   | 841                     | 68                                     | 250                                   | 43                                    | 9.5                                   | 32                                    | 3.4                                   | 16.1                                  | 2.7                                   | 7.3                                   | 0.8                                   | 4.3                                   | 0.5                                   | 78                                   | 49                                    | 37        | 3        |
| JPAC293 | 24        | 28      | 4             | 2397        | 427                                   | 1228                    | 104                                    | 380                                   | 62                                    | 13.5                                  | 42                                    | 4.7                                   | 20.8                                  | 3.1                                   | 8.9                                   | 0.9                                   | 5.2                                   | 0.6                                   | 97                                   | 49                                    | 36        | 3        |
| JPAC293 | 28        | 32      | 4             | 1804        | 349                                   | 754                     | 95                                     | 371                                   | 62                                    | 12.7                                  | 39                                    | 4                                     | 17.8                                  | 2.6                                   | 6.5                                   | 0.8                                   | 3.9                                   | 0.5                                   | 86                                   | 44                                    | 34        | 3        |
| JPAC293 | 32        | 36      | 4             | 1701        | 328                                   | 726                     | 86                                     | 344                                   | 62                                    | 12.3                                  | 37                                    | 3.9                                   | 16.9                                  | 2.7                                   | 6                                     | 0.6                                   | 3.8                                   | 0.5                                   | 72                                   | 45                                    | 33        | 5        |
| JPAC293 | 36        | 40      | 4             | 1140        | 244                                   | 447                     | 61                                     | 236                                   | 39                                    | 8.3                                   | 25                                    | 2.7                                   | 12.3                                  | 2                                     | 4.6                                   | 0.6                                   | 3.8                                   | 0.5                                   | 54                                   | 44                                    | 45        | 6        |
| JPAC293 | 40        | 44      | 4             | 2152        | 346                                   | 926                     | 98                                     | 406                                   | 86                                    | 21.4                                  | 76                                    | 8.3                                   | 36                                    | 5.2                                   | 12.2                                  | 1.3                                   | 8.3                                   | 1                                     | 122                                  | 44                                    | 38        | 7        |
| JPAC293 | 44        | 48      | 4             | 1717        | 291                                   | 709                     | 80                                     | 310                                   | 57                                    | 13.5                                  | 50                                    | 6.1                                   | 30.6                                  | 4.9                                   | 12.8                                  | 1.4                                   | 8.8                                   | 1.2                                   | 142                                  | 44                                    | 24        | 6        |
| JPAC293 | 48        | 52      | 4             | 1566        | 293                                   | 655                     | 80                                     | 297                                   | 51                                    | 11.1                                  | 36                                    | 4.2                                   | 19.7                                  | 3.5                                   | 9                                     | 1.2                                   | 7.6                                   | 1.1                                   | 97                                   | 38                                    | 24        | 6        |
| JPAC293 | 52        | 56      | 4             | 1560        | 284                                   | 635                     | 76                                     | 300                                   | 49                                    | 11.1                                  | 37                                    | 4.4                                   | 20.1                                  | 3.5                                   | 10.5                                  | 1.3                                   | 8.9                                   | 1.3                                   | 119                                  | 35                                    | 22        | 6        |
| JPAC293 | 56        | 60      | 4             | 1124        | 212                                   | 472                     | 56                                     | 204                                   | 35                                    | 7.9                                   | 25                                    | 2.8                                   | 14.5                                  | 2.5                                   | 6.6                                   | 0.9                                   | 5.2                                   | 0.7                                   | 80                                   | 29                                    | 19        | 5        |
| JPAC294 | 8         | 12      | 4             | 290         | 78                                    | 110                     | 14                                     | 50                                    | 8                                     | 1.7                                   | 5                                     | 0.6                                   | 3.2                                   | 0.5                                   | 1.3                                   | 0.2                                   | 1.3                                   | 0.2                                   | 16                                   | 36                                    | 24        | 2        |
| JPAC294 | 12        | 16      | 4             | 1068        | 270                                   | 435                     | 55                                     | 195                                   | 29                                    | 6.5                                   | 18                                    | 2                                     | 9.4                                   | 1.5                                   | 3.7                                   | 0.4                                   | 2.3                                   | 0.3                                   | 41                                   | 54                                    | 34        | 4        |
| JPAC294 | 16        | 20      | 4             | 1102        | 279                                   | 443                     | 57                                     | 203                                   | 30                                    | 6.5                                   | 19                                    | 2                                     | 9.4                                   | 1.5                                   | 3.8                                   | 0.4                                   | 2.7                                   | 0.3                                   | 46                                   | 53                                    | 34        | 4        |
| JPAC294 | 20        | 24      | 4             | 1560        | 392                                   | 613                     | 85                                     | 297                                   | 43                                    | 9.5                                   | 28                                    | 3.1                                   | 13.7                                  | 2.3                                   | 5.8                                   | 0.5                                   | 3.3                                   | 0.4                                   | 66                                   | 81                                    | 43        | 3        |
| JPAC294 | 24        | 28      | 4             | 2552        | 467                                   | 1247                    | 123                                    | 432                                   | 67                                    | 14.7                                  | 44                                    | 5                                     | 23                                    | 3.7                                   | 9.5                                   | 0.9                                   | 5.7                                   | 0.7                                   | 110                                  | 55                                    | 26        | 4        |
| JPAC294 | 28        | 32      | 4             | 2594        | 464                                   | 1290                    | 121                                    | 433                                   | 66                                    | 14.6                                  | 45                                    | 5.1                                   | 21.8                                  | 3.8                                   | 9.3                                   | 1                                     | 5.7                                   | 0.8                                   | 114                                  | 55                                    | 27        | 5        |
| JPAC294 | 32        | 36      | 4             | 2709        | 483                                   | 1290                    | 126                                    | 454                                   | 71                                    | 15.3                                  | 44                                    | 5.1                                   | 22.8                                  | 4.4                                   | 13.3                                  | 1.8                                   | 11.2                                  | 1.5                                   | 167                                  | 48                                    | 32        | 5        |
| JPAC294 | 36        | 40      | 4             | 1853        | 334                                   | 822                     | 95                                     | 352                                   | 55                                    | 12.9                                  | 39                                    | 4.7                                   | 20.3                                  | 3.3                                   | 8.9                                   | 1                                     | 5.8                                   | 0.7                                   | 98                                   | 45                                    | 22        | 5        |
| JPAC294 | 40        | 44      | 4             | 1596        | 311                                   | 699                     | 84                                     | 295                                   | 48                                    | 10.2                                  | 31                                    | 3.6                                   | 15.8                                  | 3                                     | 7.1                                   | 0.8                                   | 4.7                                   | 0.6                                   | 83                                   | 42                                    | 21        | 5        |
| JPAC294 | 44        | 48      | 4             | 1893        | 325                                   | 798                     | 91                                     | 353                                   | 62                                    | 14.7                                  | 45                                    | 5.2                                   | 24.2                                  | 4.7                                   | 13                                    | 1.5                                   | 9.6                                   | 1.3                                   | 144                                  | 43                                    | 22        | 4        |
| JPAC294 | 48        | 52      | 4             | 1250        | 220                                   | 540                     | 64                                     | 223                                   | 37                                    | 8.3                                   | 25                                    | 3                                     | 14.3                                  | 2.7                                   | 7.8                                   | 1.1                                   | 8.7                                   | 1.3                                   | 94                                   | 33                                    | 14        | 3        |
| JPAC294 | 52        | 54      | 2             | 1192        | 203                                   | 525                     | 62                                     | 223                                   | 36                                    | 8.7                                   | 25                                    | 2.9                                   | 13.6                                  | 2.5                                   | 7.5                                   | 0.9                                   | 5.5                                   | 0.8                                   | 77                                   | 30                                    | 17        | 3        |
| JPAC295 | 8         | 12      | 4             | 986         | 204                                   | 450                     | 49                                     | 166                                   | 25                                    | 5.5                                   | 17                                    | 1.9                                   | 7.9                                   | 1.6                                   | 4                                     | 0.5                                   | 3                                     | 0.4                                   | 51                                   | 38                                    | 18        | 2        |
| JPAC295 | 12        | 16      | 4             | 2298        | 418                                   | 1109                    | 123                                    | 429                                   | 56                                    | 11.7                                  | 34                                    | 3.8                                   | 16                                    | 2.7                                   | 6.7                                   | 0.8                                   | 4.5                                   | 0.5                                   | 82                                   | 51                                    | 23        | 2        |
| JPAC295 | 16        | 20      | 4             | 2867        | 441                                   | 1364                    | 153                                    | 595                                   | 81                                    | 16.5                                  | 51                                    | 5.8                                   | 24.9                                  | 4.1                                   | 10.6                                  | 1.1                                   | 6.1                                   | 0.8                                   | 113                                  | 49                                    | 23        | 3        |
| JPAC295 | 20        | 24      | 4             | 2041        | 311                                   | 876                     | 112                                    | 472                                   | 71                                    | 13.6                                  | 41                                    | 4.4                                   | 19.6                                  | 3.5                                   | 8.7                                   | 1                                     | 5.7                                   | 0.6                                   | 102                                  | 46                                    | 20        | 3        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC295 | 24        | 28      | 4             | 1735        | 296                                   | 773                     | 92                                     | 358                                   | 59                                    | 13                                    | 37                                    | 4.1                                   | 17.1                                  | 2.8                                   | 6.5                                   | 0.7                                   | 4.2                                   | 0.5                                   | 73                                   | 47                                    | 21        | 5        |
| JPAC295 | 28        | 32      | 4             | 1527        | 266                                   | 635                     | 80                                     | 317                                   | 53                                    | 11.7                                  | 35                                    | 4.2                                   | 18.7                                  | 3.3                                   | 8.5                                   | 0.9                                   | 5                                     | 0.6                                   | 88                                   | 45                                    | 20        | 5        |
| JPAC295 | 32        | 36      | 4             | 1657        | 263                                   | 685                     | 83                                     | 323                                   | 58                                    | 13.5                                  | 44                                    | 5.2                                   | 23.8                                  | 4.7                                   | 12.5                                  | 1.4                                   | 8.3                                   | 1.2                                   | 131                                  | 41                                    | 19        | 6        |
| JPAC295 | 36        | 40      | 4             | 1199        | 186                                   | 448                     | 57                                     | 220                                   | 43                                    | 10.7                                  | 35                                    | 4.6                                   | 22.5                                  | 4.1                                   | 11.7                                  | 1.4                                   | 9.7                                   | 1.4                                   | 142                                  | 37                                    | 20        | 7        |
| JPAC295 | 40        | 42      | 2             | 616         | 66                                    | 163                     | 19                                     | 77                                    | 20                                    | 5.5                                   | 26                                    | 4.2                                   | 23                                    | 5.1                                   | 14.6                                  | 1.9                                   | 13.6                                  | 1.8                                   | 176                                  | 30                                    | 25        | 5        |
| JPAC296 | 8         | 12      | 4             | 603         | 117                                   | 256                     | 31                                     | 121                                   | 20                                    | 4.1                                   | 13                                    | 1.4                                   | 6.1                                   | 1.1                                   | 2.7                                   | 0.3                                   | 1.8                                   | 0.2                                   | 28                                   | 36                                    | 20        | 2        |
| JPAC296 | 12        | 16      | 4             | 1186        | 212                                   | 522                     | 59                                     | 222                                   | 37                                    | 8.6                                   | 28                                    | 3.1                                   | 13.8                                  | 2.5                                   | 5.7                                   | 0.6                                   | 2.7                                   | 0.3                                   | 70                                   | 42                                    | 29        | 2        |
| JPAC296 | 16        | 20      | 4             | 1296        | 235                                   | 597                     | 64                                     | 233                                   | 41                                    | 8.9                                   | 25                                    | 2.8                                   | 13                                    | 2.3                                   | 5.9                                   | 0.6                                   | 3.8                                   | 0.3                                   | 65                                   | 43                                    | 25        | 3        |
| JPAC296 | 20        | 24      | 4             | 860         | 175                                   | 413                     | 40                                     | 134                                   | 22                                    | 4.6                                   | 15                                    | 1.7                                   | 7.5                                   | 1.5                                   | 3.9                                   | 0.5                                   | 3.2                                   | 0.5                                   | 40                                   | 38                                    | 20        | 3        |
| JPAC296 | 24        | 28      | 4             | 1188        | 203                                   | 532                     | 67                                     | 246                                   | 36                                    | 7.4                                   | 21                                    | 2.2                                   | 9.8                                   | 1.8                                   | 5                                     | 0.8                                   | 4.9                                   | 0.6                                   | 51                                   | 26                                    | 14        | 6        |
| JPAC296 | 28        | 31      | 3             | 1263        | 189                                   | 470                     | 58                                     | 219                                   | 42                                    | 9.9                                   | 36                                    | 5                                     | 25.2                                  | 5.2                                   | 14.8                                  | 2                                     | 13.1                                  | 1.6                                   | 171                                  | 26                                    | 17        | 10       |
| JPAC297 | 4         | 8       | 4             | 249         | 52                                    | 109                     | 12                                     | 40                                    | 6                                     | 1.5                                   | 4                                     | 0.6                                   | 3.1                                   | 0.7                                   | 1.7                                   | 0.2                                   | 1.5                                   | 0.3                                   | 16                                   | 26                                    | 19        | 2        |
| JPAC297 | 8         | 12      | 4             | 1593        | 279                                   | 689                     | 85                                     | 330                                   | 51                                    | 11                                    | 35                                    | 4.1                                   | 17.8                                  | 3                                     | 7.3                                   | 0.7                                   | 4.4                                   | 0.4                                   | 75                                   | 42                                    | 22        | 3        |
| JPAC297 | 12        | 16      | 4             | 1833        | 331                                   | 760                     | 95                                     | 393                                   | 64                                    | 14.3                                  | 42                                    | 4.8                                   | 20.6                                  | 3.5                                   | 7.8                                   | 0.8                                   | 4.5                                   | 0.4                                   | 92                                   | 48                                    | 25        | 2        |
| JPAC297 | 16        | 20      | 4             | 2040        | 333                                   | 807                     | 99                                     | 427                                   | 82                                    | 19.9                                  | 64                                    | 7.1                                   | 30.6                                  | 5.2                                   | 13                                    | 1.4                                   | 7.1                                   | 0.7                                   | 143                                  | 51                                    | 26        | 3        |
| JPAC297 | 20        | 24      | 4             | 1771        | 330                                   | 798                     | 88                                     | 332                                   | 54                                    | 11.8                                  | 32                                    | 3.9                                   | 17.6                                  | 3.2                                   | 8.5                                   | 0.9                                   | 5.8                                   | 0.6                                   | 85                                   | 51                                    | 26        | 7        |
| JPAC297 | 24        | 28      | 4             | 1747        | 277                                   | 697                     | 85                                     | 328                                   | 57                                    | 11.8                                  | 41                                    | 5.4                                   | 28.1                                  | 5.9                                   | 15.4                                  | 2.3                                   | 11.3                                  | 1.3                                   | 183                                  | 43                                    | 26        | 6        |
| JPAC297 | 28        | 32      | 4             | 2195        | 375                                   | 936                     | 111                                    | 423                                   | 66                                    | 14.3                                  | 43                                    | 5                                     | 25.1                                  | 4.9                                   | 13.7                                  | 1.8                                   | 10.5                                  | 1.2                                   | 165                                  | 46                                    | 31        | 7        |
| JPAC297 | 32        | 36      | 4             | 1626        | 293                                   | 704                     | 83                                     | 316                                   | 51                                    | 10.2                                  | 32                                    | 3.8                                   | 17.7                                  | 3.1                                   | 7.6                                   | 1                                     | 6.4                                   | 0.9                                   | 96                                   | 47                                    | 25        | 6        |
| JPAC297 | 36        | 40      | 4             | 1914        | 283                                   | 716                     | 87                                     | 338                                   | 63                                    | 14.1                                  | 51                                    | 6.4                                   | 34.8                                  | 7.1                                   | 21.6                                  | 3.5                                   | 22.1                                  | 3.5                                   | 263                                  | 36                                    | 20        | 4        |
| JPAC297 | 40        | 44      | 4             | 1085        | 192                                   | 445                     | 56                                     | 210                                   | 37                                    | 7.5                                   | 24                                    | 2.7                                   | 13.4                                  | 2.6                                   | 6.5                                   | 1                                     | 5.2                                   | 0.9                                   | 83                                   | 31                                    | 15        | 2        |
| JPAC297 | 44        | 48      | 4             | 968         | 174                                   | 409                     | 49                                     | 192                                   | 32                                    | 6.7                                   | 21                                    | 2.5                                   | 10.9                                  | 2.1                                   | 4.9                                   | 0.7                                   | 4                                     | 0.6                                   | 59                                   | 29                                    | 12        | 2        |
| JPAC298 | 8         | 12      | 4             | 528         | 107                                   | 252                     | 23                                     | 85                                    | 14                                    | 2.7                                   | 9                                     | 1                                     | 5                                     | 1                                     | 2.4                                   | 0.3                                   | 1.9                                   | 0.3                                   | 25                                   | 36                                    | 20        | 2        |
| JPAC298 | 12        | 16      | 4             | 1271        | 260                                   | 571                     | 62                                     | 229                                   | 36                                    | 7.3                                   | 22                                    | 2.6                                   | 11.6                                  | 2                                     | 5.2                                   | 0.6                                   | 3.1                                   | 0.4                                   | 58                                   | 52                                    | 29        | 2        |
| JPAC298 | 16        | 20      | 4             | 1572        | 308                                   | 747                     | 72                                     | 264                                   | 41                                    | 8.5                                   | 28                                    | 3.2                                   | 14.7                                  | 2.5                                   | 6.2                                   | 0.7                                   | 4.9                                   | 0.5                                   | 71                                   | 43                                    | 19        | 2        |
| JPAC298 | 20        | 24      | 4             | 1504        | 300                                   | 685                     | 75                                     | 254                                   | 38                                    | 8.1                                   | 27                                    | 3.2                                   | 15.3                                  | 2.8                                   | 6.9                                   | 1                                     | 5.1                                   | 0.7                                   | 82                                   | 35                                    | 16        | 2        |
| JPAC298 | 24        | 28      | 4             | 1673        | 324                                   | 720                     | 88                                     | 322                                   | 49                                    | 10                                    | 32                                    | 3.8                                   | 17.2                                  | 3                                     | 7.6                                   | 1.1                                   | 5.6                                   | 0.6                                   | 91                                   | 38                                    | 19        | 4        |
| JPAC298 | 28        | 32      | 4             | 2011        | 389                                   | 898                     | 104                                    | 372                                   | 56                                    | 9.9                                   | 37                                    | 4.2                                   | 19.9                                  | 3.5                                   | 8.5                                   | 1.2                                   | 6.9                                   | 0.9                                   | 102                                  | 45                                    | 23        | 4        |
| JPAC298 | 32        | 36      | 4             | 1756        | 392                                   | 771                     | 89                                     | 314                                   | 47                                    | 9.1                                   | 29                                    | 3.2                                   | 15.1                                  | 2.5                                   | 5.9                                   | 0.7                                   | 4.4                                   | 0.5                                   | 73                                   | 49                                    | 34        | 4        |
| JPAC298 | 36        | 40      | 4             | 1406        | 293                                   | 602                     | 72                                     | 271                                   | 41                                    | 8.5                                   | 26                                    | 2.8                                   | 12.9                                  | 2.3                                   | 5.7                                   | 0.9                                   | 4.6                                   | 0.6                                   | 63                                   | 44                                    | 24        | 4        |
| JPAC298 | 40        | 44      | 4             | 1547        | 342                                   | 695                     | 79                                     | 269                                   | 39                                    | 7.7                                   | 24                                    | 2.7                                   | 12.2                                  | 2.1                                   | 5.5                                   | 0.7                                   | 4.7                                   | 0.7                                   | 62                                   | 50                                    | 37        | 6        |
| JPAC298 | 44        | 48      | 4             | 1189        | 230                                   | 507                     | 63                                     | 230                                   | 36                                    | 7.6                                   | 23                                    | 2.6                                   | 12.5                                  | 2.2                                   | 5.6                                   | 0.8                                   | 5.3                                   | 0.8                                   | 64                                   | 44                                    | 14        | 4        |
| JPAC298 | 48        | 52      | 4             | 829         | 168                                   | 353                     | 42                                     | 150                                   | 23                                    | 5.6                                   | 15                                    | 1.8                                   | 9                                     | 1.6                                   | 4                                     | 0.7                                   | 4.9                                   | 0.7                                   | 51                                   | 36                                    | 16        | 3        |
| JPAC298 | 52        | 53      | 1             | 655         | 167                                   | 294                     | 31                                     | 101                                   | 13                                    | 3.9                                   | 8                                     | 1                                     | 4.5                                   | 0.9                                   | 2.3                                   | 0.3                                   | 2.3                                   | 0.4                                   | 27                                   | 29                                    | 20        | 4        |
| JPAC299 | 20        | 24      | 4             | 152         | 36                                    | 57                      | 8                                      | 28                                    | 4                                     | 0.8                                   | 3                                     | 0.3                                   | 2.3                                   | 0.4                                   | 1.2                                   | 0.3                                   | 1.3                                   | 0.3                                   | 10                                   | 63                                    | 34        | 3        |
| JPAC299 | 24        | 28      | 4             | 828         | 238                                   | 295                     | 53                                     | 170                                   | 22                                    | 4.5                                   | 12                                    | 1.4                                   | 5.7                                   | 0.9                                   | 1.7                                   | 0.2                                   | 1.3                                   | 0.2                                   | 22                                   | 69                                    | 41        | 3        |
| JPAC299 | 28        | 32      | 4             | 1156        | 242                                   | 467                     | 60                                     | 217                                   | 38                                    | 8.6                                   | 27                                    | 3.6                                   | 17.2                                  | 2.8                                   | 6.6                                   | 0.7                                   | 3.4                                   | 0.3                                   | 64                                   | 45                                    | 35        | 3        |
| JPAC299 | 32        | 36      | 4             | 2291        | 407                                   | 873                     | 115                                    | 484                                   | 88                                    | 19.7                                  | 67                                    | 8.3                                   | 39.5                                  | 7                                     | 14.7                                  | 1.8                                   | 8.4                                   | 1                                     | 157                                  | 43                                    | 30        | 4        |
| JPAC299 | 36        | 40      | 4             | 1311        | 229                                   | 633                     | 63                                     | 226                                   | 39                                    | 7.9                                   | 28                                    | 3.1                                   | 15.7                                  | 2.7                                   | 5.5                                   | 0.7                                   | 3.1                                   | 0.4                                   | 56                                   | 37                                    | 41        | 4        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC299 | 40        | 44      | 4             | 2118        | 365                                   | 951                     | 107                                    | 412                                   | 74                                    | 16.1                                  | 49                                    | 5.8                                   | 26.9                                  | 4.2                                   | 9.2                                   | 1                                     | 5.3                                   | 0.6                                   | 92                                   | 40                                    | 36        | 5        |
| JPAC299 | 44        | 48      | 4             | 2492        | 399                                   | 1066                    | 132                                    | 538                                   | 93                                    | 20                                    | 62                                    | 7                                     | 31.2                                  | 5.3                                   | 11.3                                  | 1.6                                   | 9.2                                   | 1                                     | 117                                  | 40                                    | 28        | 6        |
| JPAC299 | 48        | 52      | 4             | 1950        | 290                                   | 709                     | 91                                     | 374                                   | 72                                    | 15.5                                  | 54                                    | 6.9                                   | 36.2                                  | 7.7                                   | 21.3                                  | 3.2                                   | 20.2                                  | 2.8                                   | 246                                  | 37                                    | 26        | 6        |
| JPAC299 | 52        | 56      | 4             | 1183        | 201                                   | 475                     | 60                                     | 232                                   | 38                                    | 8.4                                   | 28                                    | 3.2                                   | 16.2                                  | 3.2                                   | 8.6                                   | 1.2                                   | 7.2                                   | 0.9                                   | 102                                  | 29                                    | 20        | 4        |
| JPAC300 | 12        | 16      | 4             | 364         | 91                                    | 153                     | 18                                     | 58                                    | 9                                     | 2.1                                   | 6                                     | 0.7                                   | 3.4                                   | 0.6                                   | 1.7                                   | 0.2                                   | 1.7                                   | 0.3                                   | 19                                   | 66                                    | 31        | 3        |
| JPAC300 | 16        | 20      | 4             | 1014        | 254                                   | 386                     | 56                                     | 198                                   | 29                                    | 6.6                                   | 18                                    | 2.1                                   | 9.7                                   | 1.5                                   | 4                                     | 0.4                                   | 2.6                                   | 0.4                                   | 47                                   | 71                                    | 36        | 2        |
| JPAC300 | 20        | 24      | 4             | 1376        | 315                                   | 474                     | 76                                     | 288                                   | 48                                    | 11.4                                  | 33                                    | 3.8                                   | 18.8                                  | 2.9                                   | 7.5                                   | 0.8                                   | 4.2                                   | 0.5                                   | 92                                   | 56                                    | 29        | 2        |
| JPAC300 | 24        | 28      | 4             | 1797        | 395                                   | 652                     | 95                                     | 377                                   | 63                                    | 13.4                                  | 41                                    | 4.6                                   | 21.5                                  | 3.6                                   | 9                                     | 1.2                                   | 6.1                                   | 0.8                                   | 114                                  | 47                                    | 22        | 3        |
| JPAC300 | 28        | 32      | 4             | 1783        | 443                                   | 704                     | 96                                     | 331                                   | 50                                    | 11.5                                  | 34                                    | 3.8                                   | 17                                    | 2.6                                   | 6.4                                   | 0.7                                   | 4                                     | 0.5                                   | 79                                   | 50                                    | 24        | 4        |
| JPAC300 | 32        | 36      | 4             | 2058        | 403                                   | 940                     | 102                                    | 388                                   | 61                                    | 13.3                                  | 37                                    | 3.9                                   | 19.7                                  | 2.9                                   | 7.2                                   | 0.7                                   | 3.7                                   | 0.6                                   | 74                                   | 47                                    | 21        | 4        |
| JPAC300 | 36        | 40      | 4             | 2209        | 384                                   | 963                     | 112                                    | 442                                   | 73                                    | 16.8                                  | 49                                    | 5.6                                   | 26.7                                  | 4.1                                   | 10.2                                  | 1.1                                   | 5.7                                   | 0.7                                   | 117                                  | 47                                    | 21        | 5        |
| JPAC300 | 40        | 44      | 4             | 2124        | 312                                   | 898                     | 106                                    | 467                                   | 85                                    | 18                                    | 54                                    | 5.8                                   | 27.4                                  | 4.4                                   | 10.8                                  | 1.2                                   | 6                                     | 0.8                                   | 129                                  | 44                                    | 24        | 5        |
| JPAC300 | 44        | 48      | 4             | 1625        | 280                                   | 682                     | 80                                     | 329                                   | 63                                    | 13.8                                  | 40                                    | 4.3                                   | 20.7                                  | 3.2                                   | 7.6                                   | 1                                     | 5.6                                   | 0.7                                   | 95                                   | 44                                    | 24        | 5        |
| JPAC300 | 48        | 52      | 4             | 1654        | 310                                   | 668                     | 81                                     | 324                                   | 60                                    | 14.1                                  | 43                                    | 4.8                                   | 23.9                                  | 3.8                                   | 9.2                                   | 1.2                                   | 6.4                                   | 1.1                                   | 104                                  | 44                                    | 28        | 5        |
| JPAC300 | 52        | 56      | 4             | 1654        | 281                                   | 673                     | 80                                     | 323                                   | 58                                    | 12.4                                  | 41                                    | 4.7                                   | 25.2                                  | 4.4                                   | 11.4                                  | 1.4                                   | 8.2                                   | 1.2                                   | 129                                  | 38                                    | 22        | 4        |
| JPAC300 | 56        | 60      | 4             | 1443        | 256                                   | 604                     | 73                                     | 281                                   | 46                                    | 10.1                                  | 31                                    | 3.5                                   | 17.8                                  | 3.2                                   | 8.5                                   | 1.1                                   | 6.4                                   | 1.1                                   | 101                                  | 35                                    | 22        | 4        |
| JPAC300 | 60        | 64      | 4             | 1118        | 201                                   | 457                     | 57                                     | 221                                   | 37                                    | 8.1                                   | 23                                    | 2.8                                   | 14.1                                  | 2.4                                   | 6.6                                   | 0.8                                   | 5.5                                   | 0.9                                   | 83                                   | 33                                    | 17        | 3        |
| JPAC300 | 64        | 65      | 1             | 1089        | 189                                   | 472                     | 56                                     | 218                                   | 35                                    | 7.4                                   | 22                                    | 2.5                                   | 12.7                                  | 2.1                                   | 5.2                                   | 0.7                                   | 4.1                                   | 0.6                                   | 62                                   | 31                                    | 18        | 4        |
| JPAC301 | 4         | 8       | 4             | 158         | 36                                    | 63                      | 7                                      | 27                                    | 4                                     | 0.9                                   | 3                                     | 0.4                                   | 1.9                                   | 0.4                                   | 1.1                                   | 0.1                                   | 1                                     | 0.2                                   | 12                                   | 21                                    | 17        | 1        |
| JPAC301 | 8         | 12      | 4             | 750         | 148                                   | 333                     | 38                                     | 141                                   | 26                                    | 5.2                                   | 14                                    | 1.5                                   | 6.9                                   | 1                                     | 2.7                                   | 0.3                                   | 1.9                                   | 0.3                                   | 32                                   | 42                                    | 20        | 3        |
| JPAC301 | 12        | 16      | 4             | 1429        | 236                                   | 602                     | 75                                     | 304                                   | 57                                    | 12.8                                  | 38                                    | 4.5                                   | 20.1                                  | 2.8                                   | 6.1                                   | 0.7                                   | 3.2                                   | 0.5                                   | 66                                   | 46                                    | 25        | 2        |
| JPAC301 | 16        | 20      | 4             | 1044        | 185                                   | 439                     | 53                                     | 206                                   | 35                                    | 7                                     | 22                                    | 2.6                                   | 12.9                                  | 2.3                                   | 5.9                                   | 0.7                                   | 2.9                                   | 0.5                                   | 70                                   | 42                                    | 37        | 3        |
| JPAC301 | 20        | 24      | 4             | 646         | 110                                   | 278                     | 28                                     | 105                                   | 20                                    | 4.9                                   | 16                                    | 2                                     | 11.3                                  | 1.9                                   | 6                                     | 0.8                                   | 5.2                                   | 0.8                                   | 58                                   | 44                                    | 26        | 4        |
| JPAC301 | 24        | 28      | 4             | 870         | 131                                   | 322                     | 41                                     | 166                                   | 29                                    | 7.7                                   | 25                                    | 3.3                                   | 19.4                                  | 3.3                                   | 9.3                                   | 1.3                                   | 8.2                                   | 1.3                                   | 103                                  | 27                                    | 16        | 7        |
| JPAC301 | 28        | 32      | 4             | 976         | 167                                   | 399                     | 50                                     | 195                                   | 32                                    | 7.6                                   | 23                                    | 2.8                                   | 13.6                                  | 2.4                                   | 6.2                                   | 0.7                                   | 4.2                                   | 0.6                                   | 72                                   | 27                                    | 17        | 3        |
| JPAC301 | 32        | 34      | 2             | 967         | 168                                   | 404                     | 50                                     | 197                                   | 34                                    | 7.2                                   | 21                                    | 2.5                                   | 12.2                                  | 2                                     | 5.2                                   | 0.7                                   | 3.5                                   | 0.6                                   | 59                                   | 27                                    | 16        | 2        |
| JPAC302 | 12        | 16      | 4             | 611         | 124                                   | 283                     | 27                                     | 104                                   | 17                                    | 3.4                                   | 11                                    | 1.3                                   | 6.3                                   | 1                                     | 2.7                                   | 0.3                                   | 1.6                                   | 0.3                                   | 29                                   | 47                                    | 33        | 3        |
| JPAC302 | 16        | 20      | 4             | 1718        | 299                                   | 875                     | 76                                     | 281                                   | 48                                    | 9.8                                   | 30                                    | 3.4                                   | 15.2                                  | 2.5                                   | 5.6                                   | 0.7                                   | 3.4                                   | 0.4                                   | 69                                   | 53                                    | 38        | 3        |
| JPAC302 | 20        | 24      | 4             | 1533        | 296                                   | 710                     | 73                                     | 266                                   | 44                                    | 9.4                                   | 27                                    | 3.3                                   | 14.1                                  | 2.4                                   | 5.5                                   | 0.8                                   | 4.2                                   | 0.6                                   | 77                                   | 47                                    | 40        | 2        |
| JPAC302 | 24        | 28      | 4             | 1810        | 412                                   | 811                     | 90                                     | 310                                   | 50                                    | 10.1                                  | 30                                    | 3.5                                   | 15.3                                  | 2.4                                   | 5                                     | 0.6                                   | 3.3                                   | 0.4                                   | 68                                   | 45                                    | 33        | 3        |
| JPAC302 | 28        | 32      | 4             | 1863        | 340                                   | 819                     | 94                                     | 341                                   | 57                                    | 11.9                                  | 36                                    | 4.4                                   | 20.5                                  | 3.9                                   | 9                                     | 1.2                                   | 6.2                                   | 0.9                                   | 119                                  | 42                                    | 35        | 4        |
| JPAC302 | 32        | 36      | 4             | 2052        | 332                                   | 825                     | 103                                    | 416                                   | 69                                    | 15.6                                  | 47                                    | 5.5                                   | 28.2                                  | 5.2                                   | 15.1                                  | 1.9                                   | 9.9                                   | 1.3                                   | 178                                  | 45                                    | 35        | 6        |
| JPAC302 | 36        | 40      | 4             | 1709        | 254                                   | 677                     | 90                                     | 360                                   | 64                                    | 13.7                                  | 43                                    | 5.1                                   | 24.1                                  | 4.5                                   | 11.3                                  | 1.8                                   | 12                                    | 1.9                                   | 147                                  | 33                                    | 24        | 5        |
| JPAC302 | 40        | 44      | 4             | 1403        | 208                                   | 544                     | 67                                     | 268                                   | 50                                    | 11.8                                  | 39                                    | 5                                     | 24.4                                  | 4.8                                   | 12.1                                  | 1.7                                   | 11.4                                  | 1.8                                   | 152                                  | 28                                    | 21        | 5        |
| JPAC302 | 44        | 48      | 4             | 1320        | 225                                   | 558                     | 66                                     | 255                                   | 44                                    | 9.4                                   | 30                                    | 3.7                                   | 16.5                                  | 3                                     | 7.4                                   | 1.1                                   | 5.8                                   | 0.8                                   | 94                                   | 29                                    | 23        | 4        |
| JPAC302 | 48        | 52      | 4             | 1222        | 209                                   | 510                     | 62                                     | 236                                   | 42                                    | 8.8                                   | 29                                    | 3.4                                   | 16.2                                  | 2.8                                   | 7.1                                   | 1                                     | 5.7                                   | 0.8                                   | 90                                   | 29                                    | 21        | 4        |
| JPAC302 | 52        | 56      | 4             | 1235        | 213                                   | 522                     | 62                                     | 236                                   | 41                                    | 8.8                                   | 29                                    | 3.5                                   | 16.1                                  | 2.8                                   | 6.8                                   | 0.9                                   | 5.4                                   | 0.8                                   | 88                                   | 28                                    | 21        | 4        |
| JPAC302 | 56        | 57      | 1             | 1007        | 178                                   | 409                     | 52                                     | 197                                   | 35                                    | 7.3                                   | 24                                    | 2.9                                   | 13.1                                  | 2.4                                   | 5.9                                   | 0.8                                   | 5                                     | 0.8                                   | 75                                   | 26                                    | 17        | 3        |
| JPAC303 | 12        | 16      | 4             | 150         | 39                                    | 58                      | 7                                      | 24                                    | 4                                     | 0.9                                   | 3                                     | 0.4                                   | 1.9                                   | 0.4                                   | 1.3                                   | 0.1                                   | 1.2                                   | 0.2                                   | 10                                   | 67                                    | 41        | 4        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC303 | 16        | 20      | 4             | 640         | 162                                   | 267                     | 33                                     | 116                                   | 16                                    | 3.4                                   | 9                                     | 1.1                                   | 5.1                                   | 0.8                                   | 2.1                                   | 0.2                                   | 1.6                                   | 0.2                                   | 23                                   | 68                                    | 37        | 3        |
| JPAC303 | 20        | 24      | 4             | 1612        | 395                                   | 651                     | 89                                     | 317                                   | 44                                    | 9                                     | 25                                    | 2.7                                   | 11.8                                  | 2                                     | 4.9                                   | 0.6                                   | 2.8                                   | 0.4                                   | 57                                   | 76                                    | 49        | 2        |
| JPAC303 | 24        | 28      | 4             | 2124        | 425                                   | 905                     | 114                                    | 432                                   | 65                                    | 13.5                                  | 39                                    | 4.3                                   | 19.9                                  | 3.2                                   | 7.9                                   | 0.9                                   | 4.2                                   | 0.5                                   | 91                                   | 62                                    | 43        | 2        |
| JPAC303 | 28        | 32      | 4             | 2015        | 402                                   | 828                     | 110                                    | 419                                   | 67                                    | 14.1                                  | 39                                    | 4.3                                   | 20.9                                  | 3.3                                   | 7.6                                   | 0.8                                   | 4.3                                   | 0.5                                   | 95                                   | 50                                    | 37        | 3        |
| JPAC303 | 32        | 36      | 4             | 2126        | 386                                   | 864                     | 106                                    | 419                                   | 72                                    | 17.3                                  | 52                                    | 6.5                                   | 32.5                                  | 5                                     | 12.9                                  | 1.3                                   | 7.9                                   | 0.9                                   | 143                                  | 44                                    | 40        | 3        |
| JPAC303 | 36        | 40      | 4             | 1518        | 294                                   | 674                     | 76                                     | 280                                   | 46                                    | 9.7                                   | 28                                    | 3.3                                   | 15.6                                  | 2.5                                   | 6.4                                   | 0.8                                   | 4.1                                   | 0.5                                   | 78                                   | 42                                    | 35        | 3        |
| JPAC303 | 40        | 44      | 4             | 1907        | 344                                   | 846                     | 99                                     | 380                                   | 63                                    | 13.1                                  | 38                                    | 4.1                                   | 20.4                                  | 3                                     | 8                                     | 1                                     | 5.1                                   | 0.7                                   | 82                                   | 41                                    | 36        | 5        |
| JPAC303 | 44        | 48      | 4             | 1835        | 313                                   | 785                     | 93                                     | 364                                   | 62                                    | 13.6                                  | 40                                    | 4.5                                   | 22.7                                  | 3.5                                   | 10.1                                  | 1.3                                   | 8.9                                   | 1.4                                   | 112                                  | 36                                    | 33        | 5        |
| JPAC303 | 48        | 52      | 4             | 1503        | 262                                   | 626                     | 73                                     | 278                                   | 47                                    | 10.1                                  | 33                                    | 3.9                                   | 19.7                                  | 3.7                                   | 10.4                                  | 1.3                                   | 8.8                                   | 1.4                                   | 126                                  | 33                                    | 27        | 5        |
| JPAC304 | 4         | 8       | 4             | 291         | 69                                    | 123                     | 13                                     | 46                                    | 6                                     | 1.5                                   | 5                                     | 0.6                                   | 3.4                                   | 0.6                                   | 1.8                                   | 0.2                                   | 1.5                                   | 0.2                                   | 20                                   | 24                                    | 22        | 1        |
| JPAC304 | 8         | 12      | 4             | 976         | 280                                   | 366                     | 51                                     | 176                                   | 27                                    | 5.3                                   | 15                                    | 1.7                                   | 8                                     | 1.2                                   | 3.1                                   | 0.4                                   | 2.1                                   | 0.3                                   | 40                                   | 56                                    | 33        | 2        |
| JPAC304 | 12        | 16      | 4             | 1547        | 280                                   | 706                     | 75                                     | 297                                   | 52                                    | 10.6                                  | 29                                    | 3.1                                   | 14.2                                  | 2.2                                   | 5.6                                   | 0.6                                   | 3.4                                   | 0.4                                   | 68                                   | 51                                    | 23        | 2        |
| JPAC304 | 16        | 20      | 4             | 2873        | 459                                   | 1548                    | 113                                    | 435                                   | 81                                    | 17.2                                  | 45                                    | 4.8                                   | 22.5                                  | 3.6                                   | 9.5                                   | 1.1                                   | 6.5                                   | 0.8                                   | 127                                  | 48                                    | 27        | 2        |
| JPAC304 | 20        | 24      | 4             | 2313        | 364                                   | 1235                    | 90                                     | 336                                   | 59                                    | 13.3                                  | 37                                    | 4.1                                   | 19.9                                  | 3.6                                   | 10.1                                  | 1.3                                   | 8.5                                   | 1.1                                   | 133                                  | 43                                    | 29        | 2        |
| JPAC304 | 24        | 28      | 4             | 1818        | 379                                   | 834                     | 89                                     | 322                                   | 55                                    | 12.2                                  | 32                                    | 3.5                                   | 16.2                                  | 2.4                                   | 5.8                                   | 0.7                                   | 3.7                                   | 0.5                                   | 63                                   | 47                                    | 24        | 3        |
| JPAC304 | 28        | 32      | 4             | 697         | 133                                   | 292                     | 32                                     | 125                                   | 24                                    | 5.7                                   | 17                                    | 2                                     | 10.4                                  | 1.6                                   | 4.3                                   | 0.5                                   | 2.9                                   | 0.4                                   | 46                                   | 44                                    | 11        | 2        |
| JPAC304 | 32        | 36      | 4             | 224         | 46                                    | 67                      | 10                                     | 46                                    | 10                                    | 3.1                                   | 9                                     | 1.1                                   | 6                                     | 0.9                                   | 2.3                                   | 0.3                                   | 2.4                                   | 0.3                                   | 20                                   | 44                                    | 5         | 2        |
| JPAC304 | 36        | 40      | 4             | 205         | 41                                    | 60                      | 10                                     | 41                                    | 8                                     | 2.2                                   | 7                                     | 1                                     | 5.1                                   | 0.9                                   | 2.5                                   | 0.4                                   | 2.4                                   | 0.4                                   | 24                                   | 44                                    | 5         | 2        |
| JPAC304 | 40        | 44      | 4             | 498         | 61                                    | 137                     | 25                                     | 123                                   | 25                                    | 6.2                                   | 21                                    | 2.5                                   | 13                                    | 2.5                                   | 6.2                                   | 0.9                                   | 6.1                                   | 0.9                                   | 69                                   | 43                                    | 5         | 2        |
| JPAC304 | 44        | 48      | 4             | 1070        | 25                                    | 94                      | 10                                     | 66                                    | 29                                    | 10.8                                  | 55                                    | 9.6                                   | 61.1                                  | 14.9                                  | 44.5                                  | 7.1                                   | 44.5                                  | 7.5                                   | 591                                  | 35                                    | 3         | 2        |
| JPAC304 | 48        | 52      | 4             | 159         | 16                                    | 36                      | 5                                      | 21                                    | 5                                     | 1.9                                   | 7                                     | 1.2                                   | 7                                     | 1.5                                   | 4.3                                   | 0.7                                   | 4.1                                   | 0.7                                   | 49                                   | 33                                    | 3         | 2        |
| JPAC304 | 52        | 54      | 2             | 179         | 18                                    | 43                      | 5                                      | 23                                    | 6                                     | 2                                     | 7                                     | 1.3                                   | 7.6                                   | 1.7                                   | 4.6                                   | 0.7                                   | 4.3                                   | 0.7                                   | 54                                   | 31                                    | 3         | 1        |
| JPAC305 | 8         | 12      | 4             | 96          | 29                                    | 28                      | 4                                      | 14                                    | 2                                     | 0.5                                   | 2                                     | 0.3                                   | 1.9                                   | 0.5                                   | 1.2                                   | 0.2                                   | 1.7                                   | 0.2                                   | 12                                   | 47                                    | 14        | 2        |
| JPAC305 | 12        | 16      | 4             | 52          | 9                                     | 16                      | 1                                      | 5                                     | 1                                     | 0.4                                   | 1                                     | 0.3                                   | 2.1                                   | 0.5                                   | 1.5                                   | 0.3                                   | 2.3                                   | 0.4                                   | 11                                   | 50                                    | 13        | 2        |
| JPAC305 | 16        | 20      | 4             | 56          | 10                                    | 21                      | 1                                      | 5                                     | 1                                     | 0.3                                   | 1                                     | 0.3                                   | 1.8                                   | 0.4                                   | 1.5                                   | 0.3                                   | 2                                     | 0.4                                   | 11                                   | 45                                    | 13        | 2        |
| JPAC305 | 20        | 24      | 4             | 46          | 7                                     | 14                      | 1                                      | 3                                     | 1                                     | 0.3                                   | 1                                     | 0.3                                   | 2                                     | 0.5                                   | 1.7                                   | 0.3                                   | 2.4                                   | 0.4                                   | 13                                   | 44                                    | 13        | 2        |
| JPAC305 | 24        | 28      | 4             | 93          | 17                                    | 31                      | 3                                      | 10                                    | 2                                     | 0.7                                   | 3                                     | 0.4                                   | 2.9                                   | 0.7                                   | 2.4                                   | 0.4                                   | 3.2                                   | 0.5                                   | 17                                   | 44                                    | 13        | 2        |
| JPAC305 | 28        | 32      | 4             | 221         | 45                                    | 84                      | 9                                      | 33                                    | 7                                     | 1.9                                   | 6                                     | 0.8                                   | 4.9                                   | 0.9                                   | 2.8                                   | 0.4                                   | 3.5                                   | 0.5                                   | 23                                   | 38                                    | 11        | 4        |
| JPAC306 | 4         | 8       | 4             | 162         | 39                                    | 65                      | 8                                      | 26                                    | 4                                     | 0.9                                   | 3                                     | 0.4                                   | 1.8                                   | 0.4                                   | 1                                     | 0.1                                   | 1                                     | 0.1                                   | 11                                   | 22                                    | 16        | 1        |
| JPAC306 | 8         | 12      | 4             | 1145        | 296                                   | 448                     | 62                                     | 220                                   | 33                                    | 7.5                                   | 21                                    | 2.3                                   | 10.9                                  | 1.5                                   | 3.2                                   | 0.3                                   | 2                                     | 0.3                                   | 37                                   | 42                                    | 18        | 3        |
| JPAC306 | 12        | 16      | 4             | 2353        | 488                                   | 963                     | 130                                    | 513                                   | 78                                    | 17.4                                  | 48                                    | 5                                     | 22.6                                  | 3.2                                   | 6.6                                   | 0.6                                   | 3.2                                   | 0.4                                   | 75                                   | 39                                    | 13        | 2        |
| JPAC306 | 16        | 20      | 4             | 2363        | 395                                   | 1144                    | 117                                    | 479                                   | 69                                    | 14.9                                  | 41                                    | 4.2                                   | 18.7                                  | 2.7                                   | 5.7                                   | 0.7                                   | 3.9                                   | 0.6                                   | 67                                   | 36                                    | 17        | 2        |
| JPAC306 | 20        | 24      | 4             | 1388        | 266                                   | 655                     | 66                                     | 244                                   | 40                                    | 9.1                                   | 24                                    | 2.9                                   | 14                                    | 2                                     | 5.5                                   | 0.7                                   | 4.4                                   | 0.7                                   | 54                                   | 37                                    | 18        | 3        |
| JPAC306 | 24        | 27      | 3             | 1715        | 293                                   | 701                     | 86                                     | 337                                   | 59                                    | 14.9                                  | 42                                    | 5                                     | 24.8                                  | 4.3                                   | 10.7                                  | 1.5                                   | 8.8                                   | 1.2                                   | 126                                  | 32                                    | 14        | 4        |
| JPAC307 | 4         | 8       | 4             | 195         | 44                                    | 92                      | 8                                      | 26                                    | 3                                     | 0.8                                   | 3                                     | 0.4                                   | 2.1                                   | 0.5                                   | 1.3                                   | 0.2                                   | 1.1                                   | 0.2                                   | 12                                   | 24                                    | 18        | 1        |
| JPAC307 | 8         | 12      | 4             | 522         | 200                                   | 206                     | 21                                     | 58                                    | 7                                     | 2.2                                   | 6                                     | 0.6                                   | 3.3                                   | 0.5                                   | 1.4                                   | 0.2                                   | 0.9                                   | 0.2                                   | 15                                   | 35                                    | 18        | 2        |
| JPAC307 | 12        | 16      | 4             | 466         | 166                                   | 198                     | 20                                     | 52                                    | 6                                     | 1.8                                   | 4                                     | 0.6                                   | 2.6                                   | 0.5                                   | 1.2                                   | 0.1                                   | 0.9                                   | 0.1                                   | 12                                   | 33                                    | 22        | 1        |
| JPAC307 | 16        | 20      | 4             | 1786        | 421                                   | 846                     | 79                                     | 266                                   | 33                                    | 9                                     | 22                                    | 2.7                                   | 15.1                                  | 2.6                                   | 7.9                                   | 0.9                                   | 6                                     | 0.8                                   | 75                                   | 31                                    | 26        | 2        |
| JPAC307 | 20        | 24      | 4             | 960         | 205                                   | 421                     | 44                                     | 161                                   | 24                                    | 5.5                                   | 15                                    | 1.8                                   | 8.8                                   | 1.7                                   | 5.5                                   | 0.6                                   | 3.9                                   | 0.7                                   | 62                                   | 29                                    | 17        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC308 | 4         | 8       | 4             | 255         | 64                                    | 107                     | 12                                     | 39                                    | 6                                     | 1.1                                   | 4                                     | 0.5                                   | 2.7                                   | 0.5                                   | 1.5                                   | 0.2                                   | 1.4                                   | 0.2                                   | 16                                   | 25                                    | 21        | 1        |
| JPAC308 | 8         | 12      | 4             | 1106        | 263                                   | 473                     | 55                                     | 191                                   | 28                                    | 6.6                                   | 18                                    | 2                                     | 10                                    | 1.6                                   | 4.4                                   | 0.5                                   | 2.6                                   | 0.4                                   | 50                                   | 44                                    | 18        | 3        |
| JPAC308 | 12        | 16      | 4             | 1371        | 296                                   | 583                     | 71                                     | 260                                   | 39                                    | 7.4                                   | 25                                    | 3.1                                   | 14.7                                  | 2.3                                   | 5.4                                   | 0.6                                   | 3.5                                   | 0.4                                   | 60                                   | 48                                    | 16        | 2        |
| JPAC308 | 16        | 20      | 4             | 1257        | 306                                   | 502                     | 55                                     | 191                                   | 33                                    | 7.3                                   | 26                                    | 3.4                                   | 18.2                                  | 3.2                                   | 7.6                                   | 0.9                                   | 5.2                                   | 0.8                                   | 98                                   | 49                                    | 35        | 2        |
| JPAC308 | 20        | 24      | 4             | 729         | 230                                   | 292                     | 33                                     | 99                                    | 14                                    | 3.4                                   | 10                                    | 1.2                                   | 6.5                                   | 1.1                                   | 3.1                                   | 0.3                                   | 2.1                                   | 0.3                                   | 33                                   | 42                                    | 43        | 2        |
| JPAC308 | 24        | 28      | 4             | 1498        | 403                                   | 615                     | 73                                     | 247                                   | 35                                    | 7.8                                   | 21                                    | 2.6                                   | 13.7                                  | 2.2                                   | 6                                     | 0.7                                   | 4.6                                   | 0.5                                   | 66                                   | 46                                    | 38        | 2        |
| JPAC308 | 28        | 32      | 4             | 2126        | 365                                   | 1012                    | 100                                    | 390                                   | 61                                    | 13.1                                  | 38                                    | 4.5                                   | 22.8                                  | 3.6                                   | 9.3                                   | 1.1                                   | 7                                     | 0.9                                   | 98                                   | 41                                    | 15        | 4        |
| JPAC308 | 32        | 36      | 4             | 2381        | 291                                   | 736                     | 79                                     | 330                                   | 77                                    | 19.9                                  | 81                                    | 12.4                                  | 79.3                                  | 15.8                                  | 50.7                                  | 7.1                                   | 48.9                                  | 7.5                                   | 547                                  | 36                                    | 21        | 6        |
| JPAC308 | 36        | 40      | 4             | 931         | 171                                   | 377                     | 42                                     | 161                                   | 26                                    | 5.5                                   | 20                                    | 2.6                                   | 13.8                                  | 2.4                                   | 7.4                                   | 1.1                                   | 6.8                                   | 1.1                                   | 94                                   | 25                                    | 11        | 2        |
| JPAC308 | 40        | 42      | 2             | 1001        | 227                                   | 437                     | 45                                     | 170                                   | 26                                    | 5.3                                   | 17                                    | 1.9                                   | 9.6                                   | 1.7                                   | 4.8                                   | 0.5                                   | 3.5                                   | 0.5                                   | 52                                   | 26                                    | 21        | 2        |
| JPAC309 | 4         | 8       | 4             | 253         | 51                                    | 117                     | 12                                     | 37                                    | 6                                     | 1.2                                   | 4                                     | 0.6                                   | 3.4                                   | 0.6                                   | 1.7                                   | 0.2                                   | 1.5                                   | 0.3                                   | 18                                   | 23                                    | 20        | 2        |
| JPAC309 | 8         | 12      | 4             | 590         | 176                                   | 209                     | 30                                     | 104                                   | 16                                    | 3.4                                   | 11                                    | 1.2                                   | 6                                     | 0.9                                   | 2.6                                   | 0.4                                   | 1.9                                   | 0.3                                   | 29                                   | 42                                    | 28        | 3        |
| JPAC309 | 12        | 16      | 4             | 1510        | 318                                   | 645                     | 78                                     | 290                                   | 48                                    | 10.2                                  | 30                                    | 3.3                                   | 15.5                                  | 2.3                                   | 5.3                                   | 0.5                                   | 2.9                                   | 0.4                                   | 61                                   | 50                                    | 36        | 2        |
| JPAC309 | 16        | 20      | 4             | 1775        | 344                                   | 725                     | 92                                     | 358                                   | 63                                    | 13.4                                  | 40                                    | 4.5                                   | 22.2                                  | 3.4                                   | 7.8                                   | 0.8                                   | 4.4                                   | 0.5                                   | 98                                   | 46                                    | 38        | 2        |
| JPAC309 | 20        | 24      | 4             | 2499        | 475                                   | 1083                    | 138                                    | 516                                   | 78                                    | 15.2                                  | 46                                    | 5.2                                   | 25.9                                  | 3.6                                   | 7.9                                   | 0.9                                   | 4.6                                   | 0.5                                   | 99                                   | 48                                    | 43        | 3        |
| JPAC309 | 24        | 28      | 4             | 2306        | 391                                   | 964                     | 121                                    | 485                                   | 78                                    | 16.2                                  | 49                                    | 5.7                                   | 29.5                                  | 4.5                                   | 12.1                                  | 1.3                                   | 8.5                                   | 1.2                                   | 138                                  | 51                                    | 39        | 5        |
| JPAC309 | 28        | 32      | 4             | 2328        | 362                                   | 1005                    | 121                                    | 519                                   | 86                                    | 16.5                                  | 46                                    | 5.3                                   | 24.4                                  | 4                                     | 10                                    | 1.1                                   | 6.6                                   | 1                                     | 120                                  | 44                                    | 40        | 7        |
| JPAC309 | 32        | 36      | 4             | 2264        | 381                                   | 975                     | 125                                    | 505                                   | 77                                    | 15.1                                  | 40                                    | 4.4                                   | 22.2                                  | 3.4                                   | 9.6                                   | 1.1                                   | 6.6                                   | 1.1                                   | 98                                   | 49                                    | 50        | 9        |
| JPAC309 | 36        | 40      | 4             | 2364        | 373                                   | 865                     | 109                                    | 470                                   | 98                                    | 21.8                                  | 70                                    | 8.6                                   | 46                                    | 7.8                                   | 20.9                                  | 2.7                                   | 18.2                                  | 2.6                                   | 251                                  | 38                                    | 47        | 6        |
| JPAC309 | 40        | 41      | 1             | 1521        | 374                                   | 676                     | 63                                     | 206                                   | 28                                    | 6                                     | 22                                    | 2.8                                   | 14.7                                  | 2.8                                   | 8.7                                   | 1.3                                   | 9.2                                   | 1.5                                   | 107                                  | 24                                    | 51        | 2        |
| JPAC310 | 4         | 8       | 4             | 262         | 60                                    | 108                     | 13                                     | 42                                    | 6                                     | 1.4                                   | 5                                     | 0.6                                   | 3.3                                   | 0.7                                   | 1.7                                   | 0.2                                   | 1.5                                   | 0.3                                   | 19                                   | 24                                    | 21        | 1        |
| JPAC310 | 8         | 12      | 4             | 850         | 180                                   | 370                     | 43                                     | 154                                   | 24                                    | 5.3                                   | 16                                    | 1.9                                   | 9.2                                   | 1.4                                   | 3.5                                   | 0.5                                   | 2.3                                   | 0.3                                   | 40                                   | 39                                    | 21        | 2        |
| JPAC310 | 12        | 16      | 4             | 1498        | 311                                   | 698                     | 74                                     | 259                                   | 37                                    | 8.3                                   | 24                                    | 2.8                                   | 13.8                                  | 2                                     | 4.7                                   | 0.5                                   | 2.9                                   | 0.4                                   | 62                                   | 50                                    | 26        | 2        |
| JPAC310 | 16        | 20      | 4             | 1551        | 337                                   | 719                     | 79                                     | 264                                   | 39                                    | 8.2                                   | 23                                    | 2.7                                   | 12.5                                  | 1.9                                   | 4.8                                   | 0.5                                   | 3                                     | 0.4                                   | 58                                   | 50                                    | 30        | 3        |
| JPAC310 | 20        | 24      | 4             | 892         | 178                                   | 434                     | 46                                     | 157                                   | 21                                    | 4.2                                   | 12                                    | 1.5                                   | 6.8                                   | 1                                     | 2.4                                   | 0.3                                   | 1.8                                   | 0.2                                   | 26                                   | 34                                    | 37        | 3        |
| JPAC310 | 24        | 28      | 4             | 2796        | 338                                   | 1077                    | 141                                    | 717                                   | 137                                   | 31                                    | 101                                   | 10.6                                  | 48.9                                  | 7                                     | 14.8                                  | 1.5                                   | 8.2                                   | 1                                     | 163                                  | 40                                    | 23        | 4        |
| JPAC310 | 28        | 32      | 4             | 1115        | 182                                   | 486                     | 55                                     | 220                                   | 35                                    | 7.7                                   | 22                                    | 2.5                                   | 12.1                                  | 2.1                                   | 6.4                                   | 0.9                                   | 6.7                                   | 0.9                                   | 76                                   | 31                                    | 20        | 4        |
| JPAC310 | 32        | 33      | 1             | 927         | 141                                   | 327                     | 42                                     | 198                                   | 34                                    | 7.3                                   | 21                                    | 2.6                                   | 14.1                                  | 2.6                                   | 9                                     | 1.5                                   | 9.9                                   | 1.5                                   | 116                                  | 24                                    | 15        | 4        |
| JPAC311 | 8         | 12      | 4             | 683         | 201                                   | 362                     | 27                                     | 69                                    | 7                                     | 1.3                                   | 3                                     | 0.4                                   | 1.9                                   | 0.3                                   | 0.8                                   | 0.1                                   | 0.6                                   | 0.2                                   | 8                                    | 24                                    | 19        | 1        |
| JPAC311 | 12        | 13      | 1             | 512         | 121                                   | 258                     | 24                                     | 77                                    | 11                                    | 2.2                                   | 5                                     | 0.5                                   | 2.4                                   | 0.4                                   | 0.7                                   | 0.1                                   | 0.9                                   | 0.1                                   | 9                                    | 22                                    | 28        | 1        |
| JPAC312 | 8         | 12      | 4             | 194         | 60                                    | 83                      | 8                                      | 24                                    | 3                                     | 0.8                                   | 2                                     | 0.3                                   | 1.7                                   | 0.3                                   | 1                                     | 0.1                                   | 0.8                                   | 0.1                                   | 9                                    | 34                                    | 20        | 2        |
| JPAC312 | 12        | 16      | 4             | 634         | 226                                   | 265                     | 28                                     | 79                                    | 9                                     | 2.1                                   | 5                                     | 0.5                                   | 2.9                                   | 0.5                                   | 1.3                                   | 0.2                                   | 1.1                                   | 0.2                                   | 13                                   | 49                                    | 37        | 2        |
| JPAC312 | 16        | 20      | 4             | 1573        | 426                                   | 676                     | 83                                     | 266                                   | 36                                    | 8.4                                   | 18                                    | 2.1                                   | 10.7                                  | 1.6                                   | 3.8                                   | 0.4                                   | 2.2                                   | 0.3                                   | 39                                   | 46                                    | 26        | 2        |
| JPAC312 | 20        | 24      | 4             | 2476        | 493                                   | 1241                    | 112                                    | 393                                   | 57                                    | 12                                    | 37                                    | 4.2                                   | 22.2                                  | 3.3                                   | 8.4                                   | 0.9                                   | 4.4                                   | 0.5                                   | 89                                   | 48                                    | 23        | 2        |
| JPAC312 | 24        | 28      | 4             | 2348        | 416                                   | 1220                    | 113                                    | 413                                   | 56                                    | 11.3                                  | 30                                    | 3.3                                   | 15.7                                  | 2.3                                   | 5.5                                   | 0.6                                   | 3.3                                   | 0.5                                   | 58                                   | 45                                    | 17        | 3        |
| JPAC312 | 28        | 32      | 4             | 2583        | 457                                   | 1200                    | 137                                    | 539                                   | 80                                    | 17                                    | 44                                    | 4.9                                   | 21.9                                  | 3                                     | 6.8                                   | 0.7                                   | 3.8                                   | 0.5                                   | 68                                   | 45                                    | 17        | 3        |
| JPAC312 | 32        | 36      | 4             | 1851        | 344                                   | 784                     | 94                                     | 365                                   | 66                                    | 15.4                                  | 46                                    | 5.2                                   | 25.1                                  | 3.6                                   | 8.5                                   | 1                                     | 6                                     | 0.9                                   | 87                                   | 43                                    | 18        | 4        |
| JPAC312 | 36        | 40      | 4             | 1506        | 223                                   | 538                     | 69                                     | 290                                   | 56                                    | 13.8                                  | 44                                    | 5.7                                   | 33.6                                  | 6                                     | 17.8                                  | 2.2                                   | 14.9                                  | 2                                     | 190                                  | 32                                    | 13        | 6        |
| JPAC312 | 40        | 44      | 4             | 1170        | 205                                   | 435                     | 52                                     | 191                                   | 33                                    | 8.4                                   | 30                                    | 3.7                                   | 21.3                                  | 4.2                                   | 11.8                                  | 1.6                                   | 9.2                                   | 1.4                                   | 164                                  | 29                                    | 11        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC312 | 44        | 45      | 1             | 844         | 154                                   | 355                     | 43                                     | 163                                   | 26                                    | 5.8                                   | 18                                    | 2                                     | 10.6                                  | 1.7                                   | 5.6                                   | 0.7                                   | 4.2                                   | 0.6                                   | 55                                   | 28                                    | 8         | 1        |
| JPAC313 | 4         | 8       | 4             | 240         | 42                                    | 121                     | 9                                      | 31                                    | 5                                     | 1.1                                   | 4                                     | 0.6                                   | 3.6                                   | 0.6                                   | 1.8                                   | 0.3                                   | 1.7                                   | 0.3                                   | 19                                   | 23                                    | 19        | 2        |
| JPAC313 | 8         | 12      | 4             | 1003        | 235                                   | 387                     | 56                                     | 199                                   | 33                                    | 6.6                                   | 20                                    | 2.2                                   | 11                                    | 1.5                                   | 4                                     | 0.5                                   | 2.5                                   | 0.3                                   | 46                                   | 51                                    | 29        | 3        |
| JPAC313 | 12        | 16      | 4             | 1771        | 368                                   | 679                     | 99                                     | 365                                   | 60                                    | 12.9                                  | 38                                    | 4.2                                   | 20.5                                  | 3.3                                   | 8                                     | 1                                     | 5.7                                   | 0.8                                   | 105                                  | 57                                    | 38        | 3        |
| JPAC313 | 16        | 20      | 4             | 2056        | 416                                   | 849                     | 112                                    | 419                                   | 65                                    | 14.9                                  | 43                                    | 4.7                                   | 23.2                                  | 3.4                                   | 8.4                                   | 0.9                                   | 5.4                                   | 0.6                                   | 92                                   | 50                                    | 36        | 3        |
| JPAC313 | 20        | 24      | 4             | 2014        | 462                                   | 868                     | 113                                    | 383                                   | 56                                    | 10.8                                  | 31                                    | 3.3                                   | 16                                    | 2.4                                   | 5                                     | 0.6                                   | 3.5                                   | 0.4                                   | 60                                   | 54                                    | 37        | 3        |
| JPAC313 | 24        | 28      | 4             | 1441        | 277                                   | 602                     | 77                                     | 285                                   | 47                                    | 10.3                                  | 28                                    | 3.4                                   | 16.7                                  | 2.7                                   | 7.2                                   | 0.8                                   | 4.6                                   | 0.6                                   | 78                                   | 46                                    | 25        | 3        |
| JPAC313 | 28        | 32      | 4             | 1511        | 271                                   | 652                     | 75                                     | 290                                   | 50                                    | 11.1                                  | 32                                    | 3.6                                   | 19.2                                  | 3.1                                   | 7.9                                   | 1                                     | 6                                     | 0.7                                   | 89                                   | 43                                    | 28        | 4        |
| JPAC313 | 32        | 36      | 4             | 1221        | 196                                   | 470                     | 57                                     | 238                                   | 42                                    | 10.3                                  | 34                                    | 4                                     | 21.6                                  | 3.6                                   | 11                                    | 1.3                                   | 8.6                                   | 1.4                                   | 123                                  | 35                                    | 23        | 5        |
| JPAC313 | 36        | 39      | 3             | 1001        | 172                                   | 412                     | 51                                     | 198                                   | 33                                    | 7.6                                   | 23                                    | 2.7                                   | 14.7                                  | 2.2                                   | 6.6                                   | 0.8                                   | 4.9                                   | 0.7                                   | 74                                   | 28                                    | 20        | 3        |
| JPAC314 | 4         | 8       | 4             | 211         | 47                                    | 90                      | 9                                      | 31                                    | 5                                     | 1                                     | 4                                     | 0.5                                   | 3.1                                   | 0.6                                   | 1.7                                   | 0.2                                   | 1.8                                   | 0.3                                   | 16                                   | 24                                    | 21        | 2        |
| JPAC314 | 8         | 12      | 4             | 1602        | 321                                   | 641                     | 79                                     | 311                                   | 54                                    | 12.7                                  | 41                                    | 4.6                                   | 21.6                                  | 3.5                                   | 8.7                                   | 1                                     | 5.7                                   | 0.6                                   | 96                                   | 40                                    | 26        | 4        |
| JPAC314 | 12        | 16      | 4             | 1999        | 331                                   | 975                     | 89                                     | 341                                   | 54                                    | 12                                    | 38                                    | 4.4                                   | 23.3                                  | 3.8                                   | 9.7                                   | 1.1                                   | 6.4                                   | 0.6                                   | 111                                  | 40                                    | 34        | 3        |
| JPAC314 | 16        | 20      | 4             | 2121        | 427                                   | 923                     | 105                                    | 366                                   | 59                                    | 14                                    | 45                                    | 5.5                                   | 29.7                                  | 4.7                                   | 11.4                                  | 1.2                                   | 6.5                                   | 0.6                                   | 124                                  | 43                                    | 32        | 3        |
| JPAC314 | 20        | 24      | 4             | 2103        | 401                                   | 889                     | 111                                    | 420                                   | 69                                    | 16                                    | 45                                    | 5.1                                   | 25.2                                  | 3.8                                   | 9.4                                   | 0.9                                   | 5.2                                   | 0.6                                   | 101                                  | 48                                    | 35        | 3        |
| JPAC314 | 24        | 28      | 4             | 1256        | 222                                   | 498                     | 65                                     | 255                                   | 44                                    | 9.6                                   | 31                                    | 3.5                                   | 18.7                                  | 3.1                                   | 8.1                                   | 0.9                                   | 6                                     | 0.7                                   | 92                                   | 40                                    | 36        | 3        |
| JPAC314 | 28        | 32      | 4             | 1636        | 243                                   | 609                     | 86                                     | 378                                   | 69                                    | 15.5                                  | 44                                    | 5.2                                   | 25.5                                  | 4.4                                   | 12.7                                  | 1.8                                   | 10.9                                  | 1.8                                   | 131                                  | 32                                    | 25        | 6        |
| JPAC314 | 32        | 36      | 4             | 1204        | 201                                   | 462                     | 57                                     | 222                                   | 45                                    | 9.9                                   | 34                                    | 3.9                                   | 19.9                                  | 3.5                                   | 9.2                                   | 1.4                                   | 7.7                                   | 1.1                                   | 129                                  | 27                                    | 19        | 3        |
| JPAC314 | 36        | 40      | 4             | 1187        | 218                                   | 494                     | 60                                     | 226                                   | 40                                    | 8.7                                   | 27                                    | 3                                     | 15.6                                  | 2.6                                   | 7                                     | 0.8                                   | 4.7                                   | 0.6                                   | 80                                   | 28                                    | 19        | 3        |
| JPAC314 | 40        | 44      | 4             | 1412        | 252                                   | 581                     | 71                                     | 268                                   | 48                                    | 10.7                                  | 33                                    | 4                                     | 20.4                                  | 3.4                                   | 9                                     | 1.1                                   | 6.2                                   | 0.8                                   | 103                                  | 32                                    | 22        | 4        |
| JPAC314 | 44        | 48      | 4             | 1156        | 202                                   | 470                     | 56                                     | 220                                   | 40                                    | 9.4                                   | 29                                    | 3.5                                   | 17.8                                  | 2.9                                   | 7.9                                   | 1                                     | 5.4                                   | 0.8                                   | 91                                   | 31                                    | 25        | 4        |
| JPAC314 | 48        | 50      | 2             | 1052        | 181                                   | 424                     | 52                                     | 206                                   | 35                                    | 8.4                                   | 27                                    | 3.4                                   | 16.5                                  | 2.5                                   | 7                                     | 0.8                                   | 5.2                                   | 0.7                                   | 83                                   | 27                                    | 20        | 4        |
| JPAC315 | 4         | 8       | 4             | 209         | 39                                    | 100                     | 8                                      | 26                                    | 5                                     | 1.1                                   | 4                                     | 0.6                                   | 3.4                                   | 0.5                                   | 1.9                                   | 0.3                                   | 1.9                                   | 0.3                                   | 18                                   | 28                                    | 22        | 2        |
| JPAC315 | 8         | 12      | 4             | 916         | 180                                   | 398                     | 48                                     | 185                                   | 28                                    | 6.3                                   | 16                                    | 1.8                                   | 9.3                                   | 1.4                                   | 3.6                                   | 0.4                                   | 2.5                                   | 0.4                                   | 36                                   | 40                                    | 22        | 2        |
| JPAC315 | 12        | 16      | 4             | 717         | 143                                   | 359                     | 33                                     | 114                                   | 17                                    | 3.9                                   | 10                                    | 1.2                                   | 5.6                                   | 0.9                                   | 2.6                                   | 0.4                                   | 2                                     | 0.3                                   | 25                                   | 38                                    | 19        | 2        |
| JPAC315 | 16        | 20      | 4             | 1360        | 264                                   | 641                     | 71                                     | 262                                   | 41                                    | 9.1                                   | 22                                    | 2.2                                   | 9                                     | 1.2                                   | 3.2                                   | 0.4                                   | 2.8                                   | 0.5                                   | 31                                   | 31                                    | 19        | 4        |
| JPAC315 | 20        | 24      | 4             | 1191        | 172                                   | 412                     | 54                                     | 230                                   | 46                                    | 11.8                                  | 40                                    | 5.3                                   | 27.7                                  | 4.8                                   | 14                                    | 1.8                                   | 10.3                                  | 1.5                                   | 161                                  | 26                                    | 14        | 4        |
| JPAC315 | 24        | 26      | 2             | 1007        | 179                                   | 415                     | 51                                     | 196                                   | 35                                    | 8.3                                   | 24                                    | 2.9                                   | 14.4                                  | 2.2                                   | 6                                     | 0.7                                   | 4.2                                   | 0.5                                   | 69                                   | 26                                    | 15        | 2        |
| JPAC316 | 4         | 8       | 4             | 1157        | 246                                   | 504                     | 62                                     | 211                                   | 32                                    | 6.8                                   | 20                                    | 2.5                                   | 11.2                                  | 1.8                                   | 5                                     | 0.6                                   | 3.1                                   | 0.4                                   | 53                                   | 47                                    | 23        | 2        |
| JPAC316 | 8         | 12      | 4             | 232         | 46                                    | 113                     | 9                                      | 32                                    | 5                                     | 1.2                                   | 4                                     | 0.6                                   | 3.1                                   | 0.5                                   | 1.8                                   | 0.2                                   | 1.4                                   | 0.2                                   | 15                                   | 27                                    | 19        | 2        |
| JPAC316 | 12        | 16      | 4             | 1926        | 298                                   | 841                     | 118                                    | 517                                   | 67                                    | 12.3                                  | 27                                    | 2.6                                   | 10                                    | 1.2                                   | 3.1                                   | 0.3                                   | 2                                     | 0.4                                   | 27                                   | 36                                    | 19        | 2        |
| JPAC316 | 16        | 20      | 4             | 1316        | 184                                   | 461                     | 64                                     | 303                                   | 64                                    | 14.8                                  | 43                                    | 4.7                                   | 24.6                                  | 4.2                                   | 11.4                                  | 1.5                                   | 9.2                                   | 1.3                                   | 126                                  | 28                                    | 14        | 5        |
| JPAC316 | 20        | 24      | 4             | 991         | 164                                   | 402                     | 47                                     | 185                                   | 31                                    | 7.5                                   | 25                                    | 3.2                                   | 16.9                                  | 2.9                                   | 7.8                                   | 1                                     | 5.5                                   | 0.8                                   | 92                                   | 28                                    | 13        | 2        |
| JPAC316 | 24        | 28      | 4             | 919         | 154                                   | 378                     | 46                                     | 180                                   | 31                                    | 7.4                                   | 22                                    | 2.5                                   | 13.9                                  | 2.3                                   | 5.4                                   | 0.6                                   | 4.3                                   | 0.6                                   | 71                                   | 27                                    | 11        | 2        |
| JPAC316 | 28        | 32      | 4             | 1101        | 194                                   | 441                     | 53                                     | 207                                   | 38                                    | 8.9                                   | 29                                    | 3.5                                   | 17.8                                  | 2.9                                   | 7.9                                   | 0.9                                   | 5.6                                   | 0.8                                   | 93                                   | 27                                    | 14        | 2        |
| JPAC316 | 32        | 33      | 1             | 1092        | 192                                   | 439                     | 54                                     | 218                                   | 39                                    | 9.1                                   | 28                                    | 3.2                                   | 16.5                                  | 2.5                                   | 7.1                                   | 0.8                                   | 5                                     | 0.6                                   | 78                                   | 26                                    | 12        | 2        |
| JPAC317 | 4         | 8       | 4             | 288         | 63                                    | 131                     | 13                                     | 41                                    | 6                                     | 1.6                                   | 5                                     | 0.6                                   | 3.9                                   | 0.7                                   | 1.9                                   | 0.3                                   | 1.7                                   | 0.3                                   | 18                                   | 25                                    | 19        | 1        |
| JPAC317 | 8         | 12      | 4             | 571         | 135                                   | 285                     | 24                                     | 81                                    | 10                                    | 2.7                                   | 6                                     | 0.8                                   | 3.8                                   | 0.6                                   | 1.5                                   | 0.2                                   | 1.2                                   | 0.2                                   | 18                                   | 28                                    | 18        | 1        |
| JPAC317 | 12        | 16      | 4             | 311         | 85                                    | 144                     | 13                                     | 44                                    | 6                                     | 1.6                                   | 4                                     | 0.5                                   | 2.1                                   | 0.4                                   | 1                                     | 0.1                                   | 0.7                                   | 0.1                                   | 10                                   | 27                                    | 22        | 1        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC317 | 16        | 20      | 4             | 286         | 82                                    | 138                     | 12                                     | 32                                    | 4                                     | 1.1                                   | 3                                     | 0.4                                   | 2.1                                   | 0.4                                   | 1.1                                   | 0.1                                   | 0.8                                   | 0.1                                   | 10                                   | 30                                    | 27        | 1        |
| JPAC317 | 20        | 24      | 4             | 549         | 134                                   | 275                     | 23                                     | 77                                    | 10                                    | 2.6                                   | 6                                     | 0.8                                   | 3.7                                   | 0.6                                   | 1.7                                   | 0.2                                   | 1.2                                   | 0.1                                   | 14                                   | 30                                    | 24        | 1        |
| JPAC318 | 4         | 8       | 4             | 219         | 55                                    | 83                      | 11                                     | 36                                    | 5                                     | 1.2                                   | 4                                     | 0.5                                   | 2.9                                   | 0.5                                   | 1.7                                   | 0.2                                   | 1.5                                   | 0.3                                   | 16                                   | 24                                    | 19        | 1        |
| JPAC318 | 8         | 12      | 4             | 435         | 135                                   | 188                     | 19                                     | 60                                    | 7                                     | 1.5                                   | 4                                     | 0.5                                   | 3                                     | 0.5                                   | 1.3                                   | 0.2                                   | 1.2                                   | 0.2                                   | 14                                   | 29                                    | 18        | 2        |
| JPAC318 | 12        | 14      | 2             | 482         | 150                                   | 226                     | 20                                     | 60                                    | 7                                     | 1.3                                   | 3                                     | 0.4                                   | 1.9                                   | 0.4                                   | 1                                     | 0.2                                   | 1                                     | 0.1                                   | 10                                   | 24                                    | 12        | 1        |
| JPAC319 | 8         | 12      | 4             | 97          | 27                                    | 38                      | 5                                      | 15                                    | 2                                     | 0.5                                   | 1                                     | 0.2                                   | 1                                     | 0.2                                   | 0.6                                   | 0.1                                   | 0.5                                   | 0.1                                   | 6                                    | 27                                    | 28        | 1        |
| JPAC319 | 12        | 16      | 4             | 486         | 128                                   | 247                     | 23                                     | 66                                    | 8                                     | 1.2                                   | 3                                     | 0.3                                   | 1.4                                   | 0.3                                   | 0.8                                   | 0.1                                   | 0.9                                   | 0.2                                   | 7                                    | 27                                    | 13        | 2        |
| JPAC319 | 16        | 20      | 4             | 501         | 109                                   | 237                     | 24                                     | 80                                    | 12                                    | 2                                     | 6                                     | 0.8                                   | 3.8                                   | 0.7                                   | 2                                     | 0.3                                   | 1.6                                   | 0.3                                   | 22                                   | 27                                    | 11        | 2        |
| JPAC319 | 20        | 24      | 4             | 783         | 144                                   | 326                     | 38                                     | 142                                   | 25                                    | 5.5                                   | 17                                    | 2.1                                   | 11.3                                  | 2.1                                   | 4.6                                   | 0.6                                   | 3.5                                   | 0.5                                   | 62                                   | 26                                    | 11        | 2        |
| JPAC320 | 8         | 12      | 4             | 157         | 45                                    | 50                      | 9                                      | 30                                    | 5                                     | 0.9                                   | 3                                     | 0.4                                   | 1.9                                   | 0.4                                   | 1                                     | 0.1                                   | 0.8                                   | 0.1                                   | 10                                   | 27                                    | 16        | 2        |
| JPAC320 | 12        | 16      | 4             | 418         | 154                                   | 95                      | 29                                     | 90                                    | 12                                    | 3                                     | 8                                     | 0.8                                   | 3.7                                   | 0.6                                   | 1.5                                   | 0.2                                   | 1.2                                   | 0.2                                   | 19                                   | 47                                    | 20        | 2        |
| JPAC320 | 16        | 20      | 4             | 544         | 171                                   | 158                     | 37                                     | 118                                   | 17                                    | 3.8                                   | 9                                     | 1                                     | 4.8                                   | 0.8                                   | 1.9                                   | 0.2                                   | 1.2                                   | 0.2                                   | 20                                   | 45                                    | 23        | 3        |
| JPAC320 | 20        | 24      | 4             | 3103        | 619                                   | 1205                    | 181                                    | 680                                   | 119                                   | 24.8                                  | 72                                    | 8.8                                   | 39.1                                  | 5.7                                   | 12.7                                  | 1.3                                   | 6.3                                   | 0.7                                   | 128                                  | 45                                    | 35        | 4        |
| JPAC320 | 24        | 28      | 4             | 2120        | 430                                   | 972                     | 112                                    | 392                                   | 63                                    | 12.3                                  | 35                                    | 4.2                                   | 18.5                                  | 2.9                                   | 6                                     | 0.7                                   | 3.3                                   | 0.4                                   | 68                                   | 47                                    | 34        | 4        |
| JPAC320 | 28        | 32      | 4             | 2584        | 384                                   | 1253                    | 123                                    | 509                                   | 88                                    | 18.3                                  | 50                                    | 6.3                                   | 28                                    | 4.3                                   | 10.1                                  | 1.1                                   | 5.4                                   | 0.6                                   | 105                                  | 46                                    | 31        | 6        |
| JPAC320 | 32        | 36      | 4             | 1720        | 286                                   | 754                     | 81                                     | 315                                   | 59                                    | 13                                    | 39                                    | 4.8                                   | 22.8                                  | 4                                     | 10.6                                  | 1.5                                   | 8.4                                   | 1.4                                   | 119                                  | 34                                    | 25        | 7        |
| JPAC320 | 36        | 40      | 4             | 886         | 162                                   | 340                     | 40                                     | 154                                   | 29                                    | 5.6                                   | 20                                    | 2.5                                   | 13.4                                  | 2.6                                   | 7.2                                   | 1                                     | 5.9                                   | 1                                     | 102                                  | 35                                    | 31        | 5        |
| JPAC320 | 40        | 44      | 4             | 997         | 190                                   | 423                     | 50                                     | 192                                   | 33                                    | 6.6                                   | 21                                    | 2.4                                   | 10.9                                  | 2                                     | 4.8                                   | 0.6                                   | 3.4                                   | 0.5                                   | 58                                   | 28                                    | 15        | 4        |
| JPAC320 | 44        | 48      | 4             | 812         | 165                                   | 339                     | 40                                     | 154                                   | 24                                    | 5.7                                   | 17                                    | 1.9                                   | 8.9                                   | 1.5                                   | 3.9                                   | 0.4                                   | 2.8                                   | 0.3                                   | 47                                   | 26                                    | 12        | 2        |
| JPAC320 | 48        | 50      | 2             | 862         | 169                                   | 359                     | 44                                     | 167                                   | 28                                    | 6.4                                   | 19                                    | 2.2                                   | 9.7                                   | 1.6                                   | 4                                     | 0.4                                   | 3                                     | 0.4                                   | 50                                   | 23                                    | 14        | 2        |
| JPAC321 | 8         | 12      | 4             | 795         | 247                                   | 313                     | 40                                     | 124                                   | 16                                    | 3.8                                   | 10                                    | 1.2                                   | 5.7                                   | 1                                     | 2.4                                   | 0.3                                   | 1.6                                   | 0.3                                   | 28                                   | 48                                    | 39        | 2        |
| JPAC321 | 12        | 16      | 4             | 1108        | 292                                   | 494                     | 54                                     | 174                                   | 22                                    | 4.6                                   | 13                                    | 1.4                                   | 7.5                                   | 1.2                                   | 3.4                                   | 0.4                                   | 2                                     | 0.3                                   | 39                                   | 50                                    | 40        | 2        |
| JPAC321 | 16        | 20      | 4             | 859         | 266                                   | 338                     | 47                                     | 144                                   | 17                                    | 3.5                                   | 9                                     | 1.1                                   | 4.5                                   | 0.8                                   | 1.9                                   | 0.2                                   | 1.3                                   | 0.2                                   | 26                                   | 38                                    | 34        | 1        |
| JPAC321 | 20        | 24      | 4             | 746         | 252                                   | 284                     | 43                                     | 124                                   | 13                                    | 2.7                                   | 7                                     | 0.7                                   | 3                                     | 0.5                                   | 1.1                                   | 0.1                                   | 0.9                                   | 0.1                                   | 15                                   | 36                                    | 36        | 1        |
| JPAC321 | 24        | 28      | 4             | 654         | 219                                   | 296                     | 31                                     | 78                                    | 8                                     | 1.6                                   | 5                                     | 0.6                                   | 2.7                                   | 0.4                                   | 0.8                                   | 0.1                                   | 0.8                                   | 0.1                                   | 11                                   | 37                                    | 39        | 2        |
| JPAC321 | 28        | 32      | 4             | 610         | 209                                   | 275                     | 29                                     | 69                                    | 7                                     | 1.8                                   | 4                                     | 0.4                                   | 2.2                                   | 0.3                                   | 1                                     | 0.1                                   | 0.7                                   | 0.1                                   | 11                                   | 37                                    | 35        | 2        |
| JPAC321 | 32        | 36      | 4             | 884         | 278                                   | 399                     | 44                                     | 120                                   | 14                                    | 2.6                                   | 6                                     | 0.7                                   | 3.1                                   | 0.5                                   | 1.2                                   | 0.1                                   | 1.2                                   | 0.1                                   | 13                                   | 34                                    | 37        | 2        |
| JPAC321 | 36        | 40      | 4             | 1750        | 442                                   | 834                     | 89                                     | 278                                   | 34                                    | 6.2                                   | 18                                    | 2                                     | 8.5                                   | 1.3                                   | 2.9                                   | 0.4                                   | 2.3                                   | 0.4                                   | 32                                   | 36                                    | 40        | 3        |
| JPAC321 | 40        | 44      | 4             | 1969        | 463                                   | 991                     | 94                                     | 293                                   | 38                                    | 7.4                                   | 20                                    | 2.4                                   | 10.6                                  | 1.5                                   | 3.7                                   | 0.5                                   | 2.9                                   | 0.4                                   | 40                                   | 34                                    | 33        | 2        |
| JPAC321 | 44        | 48      | 4             | 2360        | 544                                   | 1141                    | 110                                    | 367                                   | 51                                    | 11.4                                  | 30                                    | 3.2                                   | 16                                    | 2.5                                   | 6.1                                   | 0.7                                   | 4.7                                   | 0.6                                   | 71                                   | 39                                    | 46        | 4        |
| JPAC321 | 48        | 52      | 4             | 2074        | 508                                   | 984                     | 89                                     | 289                                   | 40                                    | 9.8                                   | 27                                    | 3.2                                   | 16.3                                  | 2.9                                   | 7.7                                   | 1.1                                   | 7                                     | 1                                     | 87                                   | 40                                    | 48        | 4        |
| JPAC321 | 52        | 56      | 4             | 1515        | 301                                   | 639                     | 73                                     | 262                                   | 42                                    | 10.3                                  | 33                                    | 4.2                                   | 20                                    | 3.6                                   | 10                                    | 1.5                                   | 10.5                                  | 1.7                                   | 103                                  | 42                                    | 23        | 5        |
| JPAC321 | 56        | 58      | 2             | 1310        | 235                                   | 527                     | 63                                     | 238                                   | 40                                    | 9.6                                   | 33                                    | 3.9                                   | 20.5                                  | 3.7                                   | 10.9                                  | 1.3                                   | 9                                     | 1.4                                   | 115                                  | 39                                    | 19        | 5        |
| JPAC322 | 12        | 16      | 4             | 437         | 121                                   | 153                     | 25                                     | 82                                    | 12                                    | 3.1                                   | 8                                     | 1                                     | 4.7                                   | 0.8                                   | 2.1                                   | 0.3                                   | 1.7                                   | 0.2                                   | 23                                   | 50                                    | 19        | 2        |
| JPAC322 | 16        | 20      | 4             | 854         | 226                                   | 274                     | 53                                     | 180                                   | 29                                    | 6.2                                   | 18                                    | 2.4                                   | 10.6                                  | 1.7                                   | 4.3                                   | 0.5                                   | 2.6                                   | 0.3                                   | 47                                   | 48                                    | 29        | 2        |
| JPAC322 | 20        | 24      | 4             | 721         | 183                                   | 270                     | 42                                     | 134                                   | 21                                    | 4.6                                   | 13                                    | 1.6                                   | 8                                     | 1.2                                   | 2.6                                   | 0.3                                   | 2.3                                   | 0.3                                   | 37                                   | 43                                    | 40        | 3        |
| JPAC322 | 24        | 28      | 4             | 662         | 152                                   | 300                     | 35                                     | 109                                   | 15                                    | 3.7                                   | 9                                     | 1.1                                   | 5                                     | 0.8                                   | 2.4                                   | 0.3                                   | 2.1                                   | 0.2                                   | 29                                   | 46                                    | 23        | 3        |
| JPAC322 | 28        | 32      | 4             | 650         | 111                                   | 310                     | 34                                     | 120                                   | 19                                    | 4.7                                   | 10                                    | 1.3                                   | 6.6                                   | 1                                     | 2.8                                   | 0.3                                   | 2.4                                   | 0.4                                   | 27                                   | 37                                    | 28        | 3        |
| JPAC322 | 32        | 36      | 4             | 727         | 121                                   | 348                     | 39                                     | 134                                   | 22                                    | 5.4                                   | 13                                    | 1.6                                   | 7                                     | 1.1                                   | 3                                     | 0.4                                   | 2.9                                   | 0.4                                   | 30                                   | 37                                    | 29        | 4        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC322 | 36        | 40      | 4             | 1092        | 176                                   | 447                     | 51                                     | 199                                   | 36                                    | 9.2                                   | 29                                    | 3.6                                   | 16                                    | 2.9                                   | 8                                     | 1.1                                   | 7                                     | 1                                     | 105                                  | 32                                    | 29        | 5        |
| JPAC322 | 40        | 44      | 4             | 1129        | 184                                   | 434                     | 56                                     | 225                                   | 40                                    | 9.1                                   | 30                                    | 3.6                                   | 17.9                                  | 3                                     | 8.9                                   | 1.1                                   | 7.1                                   | 1                                     | 109                                  | 30                                    | 29        | 6        |
| JPAC322 | 44        | 47      | 3             | 1176        | 206                                   | 486                     | 61                                     | 232                                   | 38                                    | 8.8                                   | 28                                    | 3.3                                   | 15.3                                  | 2.6                                   | 7.1                                   | 0.8                                   | 4.3                                   | 0.7                                   | 83                                   | 29                                    | 26        | 6        |
| JPAC323 | 8         | 12      | 4             | 337         | 106                                   | 120                     | 17                                     | 56                                    | 8                                     | 2                                     | 6                                     | 0.7                                   | 3.2                                   | 0.4                                   | 1.3                                   | 0.1                                   | 1                                     | 0.2                                   | 16                                   | 31                                    | 20        | 2        |
| JPAC323 | 12        | 16      | 4             | 1023        | 256                                   | 333                     | 62                                     | 220                                   | 32                                    | 7.6                                   | 23                                    | 2.8                                   | 12.6                                  | 2.2                                   | 5                                     | 0.7                                   | 3.5                                   | 0.5                                   | 63                                   | 47                                    | 30        | 3        |
| JPAC323 | 16        | 20      | 4             | 1085        | 264                                   | 389                     | 64                                     | 217                                   | 32                                    | 7.4                                   | 23                                    | 2.8                                   | 13.7                                  | 2.3                                   | 5.1                                   | 0.6                                   | 3.4                                   | 0.4                                   | 61                                   | 52                                    | 43        | 3        |
| JPAC323 | 20        | 24      | 4             | 1446        | 360                                   | 577                     | 78                                     | 257                                   | 37                                    | 8.5                                   | 26                                    | 3.3                                   | 15.8                                  | 2.6                                   | 5.9                                   | 0.7                                   | 4.4                                   | 0.5                                   | 70                                   | 48                                    | 45        | 5        |
| JPAC323 | 24        | 28      | 4             | 2853        | 516                                   | 984                     | 181                                    | 750                                   | 118                                   | 25                                    | 72                                    | 8.5                                   | 37.6                                  | 5.8                                   | 13                                    | 1.6                                   | 8.6                                   | 1                                     | 131                                  | 47                                    | 42        | 6        |
| JPAC323 | 28        | 32      | 4             | 2847        | 360                                   | 1456                    | 124                                    | 512                                   | 81                                    | 18.5                                  | 57                                    | 6.6                                   | 30.3                                  | 5.6                                   | 14.3                                  | 2.2                                   | 13.2                                  | 1.7                                   | 165                                  | 38                                    | 34        | 5        |
| JPAC323 | 32        | 36      | 4             | 2476        | 342                                   | 1023                    | 134                                    | 575                                   | 94                                    | 21.4                                  | 65                                    | 7.4                                   | 31.7                                  | 5.5                                   | 12.9                                  | 1.9                                   | 13.2                                  | 1.9                                   | 149                                  | 36                                    | 32        | 7        |
| JPAC323 | 36        | 38      | 2             | 1484        | 226                                   | 613                     | 70                                     | 286                                   | 46                                    | 11.1                                  | 36                                    | 4.3                                   | 22.2                                  | 4.3                                   | 10.9                                  | 1.7                                   | 10.9                                  | 1.5                                   | 141                                  | 27                                    | 22        | 4        |
| JPAC324 | 8         | 12      | 4             | 650         | 167                                   | 271                     | 32                                     | 109                                   | 16                                    | 3.2                                   | 10                                    | 1.3                                   | 5.8                                   | 1                                     | 2.5                                   | 0.4                                   | 2.1                                   | 0.3                                   | 29                                   | 39                                    | 25        | 2        |
| JPAC324 | 12        | 16      | 4             | 1622        | 331                                   | 753                     | 81                                     | 287                                   | 41                                    | 8.7                                   | 25                                    | 3                                     | 12.9                                  | 2.2                                   | 5.1                                   | 0.6                                   | 4.3                                   | 0.5                                   | 68                                   | 47                                    | 27        | 2        |
| JPAC324 | 16        | 20      | 4             | 1691        | 342                                   | 776                     | 88                                     | 311                                   | 45                                    | 9                                     | 26                                    | 3.1                                   | 13.3                                  | 2.3                                   | 4.9                                   | 0.6                                   | 3.4                                   | 0.3                                   | 65                                   | 48                                    | 32        | 2        |
| JPAC324 | 20        | 24      | 4             | 1999        | 369                                   | 977                     | 96                                     | 350                                   | 49                                    | 10.5                                  | 32                                    | 3.8                                   | 18.4                                  | 3                                     | 6.3                                   | 0.9                                   | 5                                     | 0.6                                   | 79                                   | 43                                    | 36        | 3        |
| JPAC324 | 24        | 28      | 4             | 1994        | 369                                   | 938                     | 108                                    | 390                                   | 54                                    | 11                                    | 32                                    | 3.6                                   | 15.8                                  | 2.5                                   | 5.3                                   | 0.7                                   | 3.7                                   | 0.5                                   | 60                                   | 43                                    | 35        | 3        |
| JPAC324 | 28        | 32      | 4             | 2381        | 352                                   | 1066                    | 116                                    | 455                                   | 70                                    | 16.1                                  | 52                                    | 6.7                                   | 31.9                                  | 6.2                                   | 14.9                                  | 2                                     | 11.3                                  | 1.3                                   | 180                                  | 44                                    | 29        | 3        |
| JPAC324 | 32        | 36      | 4             | 1644        | 263                                   | 705                     | 87                                     | 331                                   | 48                                    | 10.4                                  | 31                                    | 3.9                                   | 19.7                                  | 3.7                                   | 9.6                                   | 1.3                                   | 8.3                                   | 1.2                                   | 122                                  | 41                                    | 24        | 4        |
| JPAC324 | 36        | 40      | 4             | 1290        | 219                                   | 525                     | 66                                     | 260                                   | 39                                    | 8                                     | 25                                    | 3.2                                   | 15.6                                  | 2.9                                   | 8.5                                   | 1.3                                   | 9.5                                   | 1.6                                   | 107                                  | 38                                    | 22        | 4        |
| JPAC324 | 40        | 44      | 4             | 1174        | 196                                   | 485                     | 59                                     | 222                                   | 35                                    | 7.3                                   | 25                                    | 3.2                                   | 15.7                                  | 3.1                                   | 8                                     | 1.3                                   | 8.3                                   | 1.3                                   | 104                                  | 31                                    | 25        | 3        |
| JPAC324 | 44        | 45      | 1             | 809         | 139                                   | 346                     | 43                                     | 166                                   | 24                                    | 5.4                                   | 16                                    | 1.8                                   | 9.4                                   | 1.6                                   | 4                                     | 0.6                                   | 3.6                                   | 0.6                                   | 48                                   | 28                                    | 15        | 2        |
| JPAC325 | 16        | 20      | 4             | 488         | 117                                   | 267                     | 20                                     | 59                                    | 6                                     | 1.3                                   | 3                                     | 0.5                                   | 2.6                                   | 0.4                                   | 0.9                                   | 0.1                                   | 0.8                                   | 0.1                                   | 10                                   | 31                                    | 40        | 1        |
| JPAC325 | 20        | 24      | 4             | 494         | 123                                   | 262                     | 22                                     | 62                                    | 7                                     | 1.1                                   | 3                                     | 0.5                                   | 2.2                                   | 0.4                                   | 0.9                                   | 0.1                                   | 0.9                                   | 0.1                                   | 10                                   | 31                                    | 46        | 1        |
| JPAC325 | 24        | 28      | 4             | 586         | 140                                   | 296                     | 28                                     | 84                                    | 9                                     | 1.8                                   | 5                                     | 0.6                                   | 3.2                                   | 0.6                                   | 1.6                                   | 0.2                                   | 1.3                                   | 0.2                                   | 15                                   | 31                                    | 43        | 1        |
| JPAC325 | 28        | 32      | 4             | 601         | 131                                   | 307                     | 27                                     | 88                                    | 11                                    | 2                                     | 6                                     | 0.7                                   | 4                                     | 0.7                                   | 1.9                                   | 0.3                                   | 1.9                                   | 0.2                                   | 21                                   | 29                                    | 43        | 1        |
| JPAC325 | 32        | 36      | 4             | 596         | 125                                   | 302                     | 26                                     | 88                                    | 11                                    | 2.4                                   | 7                                     | 0.8                                   | 4.2                                   | 0.8                                   | 2.2                                   | 0.3                                   | 2.1                                   | 0.3                                   | 24                                   | 28                                    | 39        | 1        |
| JPAC325 | 36        | 40      | 4             | 575         | 116                                   | 294                     | 24                                     | 80                                    | 11                                    | 2.2                                   | 7                                     | 1                                     | 4.9                                   | 1                                     | 2.5                                   | 0.3                                   | 2.6                                   | 0.4                                   | 30                                   | 25                                    | 38        | 2        |
| JPAC325 | 40        | 44      | 4             | 447         | 85                                    | 219                     | 20                                     | 65                                    | 10                                    | 1.9                                   | 6                                     | 0.7                                   | 3.8                                   | 0.8                                   | 2.4                                   | 0.4                                   | 2.5                                   | 0.4                                   | 31                                   | 27                                    | 40        | 2        |
| JPAC325 | 44        | 48      | 4             | 393         | 73                                    | 178                     | 19                                     | 64                                    | 10                                    | 2                                     | 6                                     | 0.8                                   | 4.2                                   | 0.8                                   | 2.1                                   | 0.3                                   | 2.5                                   | 0.4                                   | 29                                   | 32                                    | 47        | 3        |
| JPAC325 | 48        | 52      | 4             | 567         | 116                                   | 267                     | 25                                     | 84                                    | 12                                    | 3.8                                   | 9                                     | 1.1                                   | 5.2                                   | 1                                     | 2.8                                   | 0.4                                   | 3.2                                   | 0.5                                   | 37                                   | 33                                    | 31        | 4        |
| JPAC325 | 52        | 56      | 4             | 250         | 52                                    | 99                      | 11                                     | 43                                    | 7                                     | 2.8                                   | 5                                     | 0.6                                   | 3.2                                   | 0.7                                   | 1.9                                   | 0.3                                   | 2                                     | 0.3                                   | 23                                   | 32                                    | 11        | 3        |
| JPAC325 | 56        | 60      | 4             | 510         | 96                                    | 213                     | 26                                     | 97                                    | 15                                    | 3.8                                   | 11                                    | 1.3                                   | 6.1                                   | 1.1                                   | 2.7                                   | 0.4                                   | 2.2                                   | 0.3                                   | 34                                   | 26                                    | 11        | 4        |
| JPAC325 | 60        | 64      | 4             | 966         | 168                                   | 407                     | 51                                     | 194                                   | 30                                    | 6.6                                   | 20                                    | 2.5                                   | 12.1                                  | 2.1                                   | 5.1                                   | 0.7                                   | 4.3                                   | 0.6                                   | 63                                   | 29                                    | 15        | 5        |
| JPAC325 | 64        | 65      | 1             | 697         | 121                                   | 297                     | 37                                     | 136                                   | 21                                    | 5.1                                   | 15                                    | 1.8                                   | 8.6                                   | 1.5                                   | 3.8                                   | 0.6                                   | 3.1                                   | 0.4                                   | 44                                   | 29                                    | 12        | 4        |
| JPAC326 | 36        | 40      | 4             | 211         | 72                                    | 72                      | 10                                     | 33                                    | 5                                     | 1.6                                   | 4                                     | 0.4                                   | 1.9                                   | 0.4                                   | 0.8                                   | 0.1                                   | 0.8                                   | 0.1                                   | 10                                   | 45                                    | 25        | 2        |
| JPAC326 | 40        | 44      | 4             | 1133        | 378                                   | 286                     | 78                                     | 265                                   | 33                                    | 8.3                                   | 22                                    | 2.6                                   | 11.3                                  | 1.8                                   | 3.7                                   | 0.5                                   | 2.8                                   | 0.3                                   | 42                                   | 44                                    | 25        | 4        |
| JPAC326 | 44        | 48      | 4             | 909         | 230                                   | 263                     | 55                                     | 202                                   | 31                                    | 7.1                                   | 21                                    | 2.5                                   | 12.9                                  | 2.4                                   | 5.7                                   | 0.8                                   | 4.5                                   | 0.5                                   | 72                                   | 50                                    | 23        | 5        |
| JPAC326 | 48        | 52      | 4             | 1680        | 432                                   | 451                     | 113                                    | 409                                   | 64                                    | 13.5                                  | 38                                    | 4.5                                   | 21.6                                  | 3.6                                   | 8.7                                   | 1.2                                   | 7.6                                   | 0.9                                   | 112                                  | 45                                    | 22        | 4        |
| JPAC326 | 52        | 56      | 4             | 1964        | 291                                   | 849                     | 98                                     | 400                                   | 64                                    | 14.8                                  | 46                                    | 5.5                                   | 26.7                                  | 4.7                                   | 11.1                                  | 1.5                                   | 9.4                                   | 1.1                                   | 142                                  | 40                                    | 21        | 5        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC326 | 56        | 60      | 4             | 2054        | 247                                   | 1058                    | 81                                     | 338                                   | 58                                    | 13.7                                  | 44                                    | 5.3                                   | 26.7                                  | 4.8                                   | 12.7                                  | 1.8                                   | 11.6                                  | 1.7                                   | 149                                  | 39                                    | 19        | 5        |
| JPAC326 | 60        | 64      | 4             | 1168        | 199                                   | 480                     | 58                                     | 225                                   | 38                                    | 8.9                                   | 26                                    | 3.1                                   | 16.2                                  | 2.9                                   | 7.3                                   | 1.1                                   | 6.7                                   | 0.9                                   | 95                                   | 33                                    | 17        | 3        |
| JPAC326 | 64        | 65      | 1             | 1074        | 191                                   | 451                     | 55                                     | 212                                   | 35                                    | 7.8                                   | 24                                    | 2.8                                   | 13.4                                  | 2.3                                   | 5.4                                   | 0.7                                   | 4.6                                   | 0.6                                   | 70                                   | 29                                    | 17        | 3        |
| JPAC327 | 8         | 12      | 4             | 624         | 134                                   | 254                     | 33                                     | 118                                   | 18                                    | 3.9                                   | 12                                    | 1.5                                   | 7.4                                   | 1.2                                   | 2.9                                   | 0.4                                   | 2.5                                   | 0.4                                   | 35                                   | 38                                    | 25        | 3        |
| JPAC327 | 12        | 16      | 4             | 980         | 199                                   | 418                     | 54                                     | 199                                   | 32                                    | 6.3                                   | 18                                    | 2.1                                   | 9.7                                   | 1.4                                   | 3                                     | 0.4                                   | 2.2                                   | 0.3                                   | 35                                   | 46                                    | 35        | 3        |
| JPAC327 | 16        | 20      | 4             | 1857        | 373                                   | 773                     | 104                                    | 386                                   | 61                                    | 13.5                                  | 40                                    | 4.7                                   | 20.4                                  | 3.1                                   | 6.3                                   | 0.7                                   | 3.9                                   | 0.5                                   | 68                                   | 47                                    | 42        | 3        |
| JPAC327 | 20        | 24      | 4             | 1579        | 315                                   | 690                     | 91                                     | 336                                   | 46                                    | 9.9                                   | 25                                    | 3                                     | 13.1                                  | 1.8                                   | 3.5                                   | 0.5                                   | 2.8                                   | 0.3                                   | 40                                   | 43                                    | 39        | 3        |
| JPAC327 | 24        | 28      | 4             | 1513        | 229                                   | 619                     | 70                                     | 301                                   | 60                                    | 14.4                                  | 49                                    | 5.2                                   | 25.5                                  | 4.3                                   | 10                                    | 1.2                                   | 6.8                                   | 0.8                                   | 118                                  | 39                                    | 34        | 5        |
| JPAC327 | 28        | 32      | 4             | 1207        | 203                                   | 495                     | 58                                     | 225                                   | 40                                    | 10.3                                  | 33                                    | 3.6                                   | 17.3                                  | 3.1                                   | 7.8                                   | 1                                     | 7                                     | 1                                     | 102                                  | 38                                    | 26        | 4        |
| JPAC327 | 32        | 36      | 4             | 1116        | 202                                   | 490                     | 56                                     | 206                                   | 33                                    | 7.7                                   | 25                                    | 3                                     | 14.2                                  | 2.3                                   | 5.6                                   | 0.8                                   | 5.1                                   | 0.7                                   | 65                                   | 34                                    | 26        | 4        |
| JPAC327 | 36        | 40      | 4             | 1164        | 221                                   | 486                     | 57                                     | 217                                   | 36                                    | 8                                     | 26                                    | 3.1                                   | 15.4                                  | 2.6                                   | 6.7                                   | 1                                     | 6.2                                   | 0.9                                   | 77                                   | 36                                    | 28        | 5        |
| JPAC327 | 40        | 44      | 4             | 1444        | 253                                   | 554                     | 68                                     | 268                                   | 47                                    | 10.5                                  | 36                                    | 4.5                                   | 23.9                                  | 4.6                                   | 11.5                                  | 1.6                                   | 10.6                                  | 1.5                                   | 150                                  | 33                                    | 27        | 6        |
| JPAC327 | 44        | 48      | 4             | 1454        | 220                                   | 517                     | 68                                     | 293                                   | 54                                    | 12.6                                  | 45                                    | 5.9                                   | 31.8                                  | 5.8                                   | 15                                    | 2.2                                   | 14.9                                  | 2                                     | 167                                  | 33                                    | 22        | 9        |
| JPAC328 | 8         | 12      | 4             | 297         | 87                                    | 98                      | 17                                     | 57                                    | 8                                     | 1.6                                   | 5                                     | 0.6                                   | 2.8                                   | 0.6                                   | 1.5                                   | 0.2                                   | 1.4                                   | 0.2                                   | 17                                   | 29                                    | 19        | 2        |
| JPAC328 | 12        | 16      | 4             | 949         | 223                                   | 415                     | 47                                     | 155                                   | 22                                    | 5                                     | 15                                    | 1.9                                   | 9.1                                   | 1.6                                   | 3.6                                   | 0.5                                   | 2.8                                   | 0.4                                   | 49                                   | 41                                    | 29        | 3        |
| JPAC328 | 16        | 20      | 4             | 2396        | 450                                   | 1228                    | 111                                    | 372                                   | 52                                    | 11.1                                  | 35                                    | 4                                     | 19.8                                  | 3.2                                   | 7.4                                   | 0.9                                   | 4.9                                   | 0.6                                   | 97                                   | 47                                    | 37        | 3        |
| JPAC328 | 20        | 24      | 4             | 2351        | 461                                   | 1134                    | 121                                    | 405                                   | 58                                    | 11.5                                  | 33                                    | 3.8                                   | 18                                    | 2.9                                   | 7                                     | 1                                     | 5.1                                   | 0.6                                   | 90                                   | 51                                    | 45        | 4        |
| JPAC328 | 24        | 28      | 4             | 2186        | 394                                   | 1045                    | 116                                    | 416                                   | 59                                    | 13.3                                  | 35                                    | 4.2                                   | 18.8                                  | 2.9                                   | 6.3                                   | 0.8                                   | 5.1                                   | 0.5                                   | 69                                   | 47                                    | 50        | 5        |
| JPAC328 | 28        | 32      | 4             | 2317        | 376                                   | 961                     | 124                                    | 496                                   | 76                                    | 16.5                                  | 50                                    | 6.1                                   | 30.2                                  | 5.2                                   | 12.5                                  | 1.5                                   | 8.9                                   | 1                                     | 152                                  | 50                                    | 43        | 5        |
| JPAC328 | 32        | 36      | 4             | 2023        | 297                                   | 789                     | 108                                    | 489                                   | 81                                    | 18                                    | 48                                    | 5.5                                   | 26.2                                  | 4.3                                   | 11.1                                  | 1.5                                   | 8.7                                   | 1.2                                   | 135                                  | 47                                    | 25        | 4        |
| JPAC328 | 36        | 39      | 3             | 1244        | 187                                   | 469                     | 61                                     | 247                                   | 43                                    | 10.2                                  | 34                                    | 4.3                                   | 22.3                                  | 4                                     | 10.7                                  | 1.7                                   | 11.3                                  | 1.7                                   | 137                                  | 30                                    | 15        | 4        |
| JPAC329 | 8         | 12      | 4             | 309         | 102                                   | 90                      | 19                                     | 61                                    | 7                                     | 1.6                                   | 5                                     | 0.5                                   | 2.9                                   | 0.5                                   | 1.5                                   | 0.2                                   | 1.4                                   | 0.2                                   | 17                                   | 42                                    | 27        | 3        |
| JPAC329 | 12        | 16      | 4             | 1276        | 416                                   | 466                     | 77                                     | 224                                   | 25                                    | 5.3                                   | 14                                    | 1.6                                   | 8.1                                   | 1.2                                   | 3                                     | 0.3                                   | 2.2                                   | 0.3                                   | 33                                   | 61                                    | 41        | 4        |
| JPAC329 | 16        | 20      | 4             | 1890        | 453                                   | 880                     | 98                                     | 311                                   | 40                                    | 8.4                                   | 24                                    | 2.7                                   | 13                                    | 2                                     | 4.4                                   | 0.6                                   | 3.4                                   | 0.4                                   | 51                                   | 57                                    | 48        | 4        |
| JPAC329 | 20        | 24      | 4             | 1110        | 274                                   | 450                     | 60                                     | 204                                   | 28                                    | 6.2                                   | 18                                    | 2.1                                   | 10                                    | 1.8                                   | 4                                     | 0.5                                   | 2.9                                   | 0.4                                   | 49                                   | 49                                    | 37        | 2        |
| JPAC329 | 24        | 28      | 4             | 1413        | 341                                   | 558                     | 81                                     | 274                                   | 41                                    | 9.2                                   | 23                                    | 2.8                                   | 13.1                                  | 1.9                                   | 4.8                                   | 0.5                                   | 3.1                                   | 0.4                                   | 59                                   | 45                                    | 29        | 2        |
| JPAC329 | 28        | 32      | 4             | 1511        | 326                                   | 625                     | 83                                     | 289                                   | 44                                    | 10.1                                  | 28                                    | 3.2                                   | 15.4                                  | 2.4                                   | 5.8                                   | 0.6                                   | 3.1                                   | 0.4                                   | 74                                   | 50                                    | 31        | 2        |
| JPAC329 | 32        | 36      | 4             | 1703        | 353                                   | 582                     | 104                                    | 399                                   | 65                                    | 14.8                                  | 41                                    | 5                                     | 22                                    | 3.4                                   | 8.6                                   | 1                                     | 5.6                                   | 0.6                                   | 99                                   | 52                                    | 31        | 3        |
| JPAC329 | 36        | 40      | 4             | 1601        | 327                                   | 587                     | 94                                     | 358                                   | 58                                    | 13.5                                  | 36                                    | 4.3                                   | 19.6                                  | 3.1                                   | 7.2                                   | 0.8                                   | 5.6                                   | 0.6                                   | 86                                   | 53                                    | 27        | 3        |
| JPAC329 | 40        | 44      | 4             | 1910        | 338                                   | 805                     | 97                                     | 378                                   | 64                                    | 14.5                                  | 38                                    | 5.1                                   | 23.8                                  | 4.1                                   | 10.2                                  | 1.2                                   | 7.2                                   | 0.8                                   | 123                                  | 53                                    | 24        | 4        |
| JPAC329 | 44        | 48      | 4             | 2207        | 339                                   | 936                     | 111                                    | 443                                   | 75                                    | 16.4                                  | 47                                    | 5.8                                   | 26.7                                  | 5.1                                   | 12.9                                  | 1.7                                   | 11.2                                  | 1.5                                   | 175                                  | 46                                    | 25        | 5        |
| JPAC329 | 48        | 52      | 4             | 1191        | 215                                   | 477                     | 59                                     | 238                                   | 42                                    | 10.6                                  | 28                                    | 3.4                                   | 15.6                                  | 2.6                                   | 6.7                                   | 0.9                                   | 6.3                                   | 0.8                                   | 86                                   | 34                                    | 16        | 3        |
| JPAC329 | 52        | 53      | 1             | 953         | 189                                   | 402                     | 47                                     | 180                                   | 30                                    | 6.3                                   | 19                                    | 2.3                                   | 10.3                                  | 1.7                                   | 4.6                                   | 0.6                                   | 3.5                                   | 0.5                                   | 57                                   | 30                                    | 15        | 2        |
| JPAC330 | 16        | 20      | 4             | 223         | 60                                    | 79                      | 11                                     | 38                                    | 5                                     | 1.4                                   | 4                                     | 0.6                                   | 3.1                                   | 0.6                                   | 1.4                                   | 0.2                                   | 1.5                                   | 0.2                                   | 17                                   | 42                                    | 24        | 2        |
| JPAC330 | 20        | 24      | 4             | 641         | 190                                   | 243                     | 33                                     | 113                                   | 15                                    | 3.5                                   | 9                                     | 1.1                                   | 5                                     | 0.9                                   | 2                                     | 0.2                                   | 1.8                                   | 0.3                                   | 24                                   | 48                                    | 29        | 2        |
| JPAC330 | 24        | 28      | 4             | 1144        | 304                                   | 467                     | 59                                     | 199                                   | 31                                    | 6.4                                   | 17                                    | 2.1                                   | 8.9                                   | 1.4                                   | 3.1                                   | 0.3                                   | 2                                     | 0.3                                   | 43                                   | 54                                    | 31        | 3        |
| JPAC330 | 28        | 32      | 4             | 1455        | 339                                   | 601                     | 76                                     | 276                                   | 45                                    | 9.9                                   | 26                                    | 3.1                                   | 13.2                                  | 1.9                                   | 4.3                                   | 0.4                                   | 2.3                                   | 0.3                                   | 57                                   | 46                                    | 26        | 3        |
| JPAC330 | 32        | 36      | 4             | 1478        | 292                                   | 599                     | 74                                     | 283                                   | 50                                    | 12.2                                  | 34                                    | 4                                     | 19.4                                  | 3.1                                   | 7.6                                   | 0.8                                   | 5.3                                   | 0.5                                   | 93                                   | 42                                    | 25        | 4        |
| JPAC330 | 36        | 40      | 4             | 2021        | 408                                   | 867                     | 93                                     | 341                                   | 58                                    | 14.7                                  | 43                                    | 5.4                                   | 24.6                                  | 4.3                                   | 11.2                                  | 1.4                                   | 9.4                                   | 1                                     | 140                                  | 45                                    | 27        | 6        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC330 | 40        | 44      | 4             | 1418        | 235                                   | 590                     | 71                                     | 278                                   | 50                                    | 11.3                                  | 31                                    | 3.9                                   | 18.6                                  | 3.1                                   | 8.5                                   | 1.1                                   | 8                                     | 1                                     | 109                                  | 38                                    | 19        | 4        |
| JPAC330 | 44        | 48      | 4             | 1218        | 217                                   | 486                     | 59                                     | 230                                   | 40                                    | 9.6                                   | 27                                    | 3.3                                   | 15.9                                  | 3.1                                   | 8.5                                   | 1.1                                   | 7.4                                   | 1.1                                   | 110                                  | 37                                    | 17        | 3        |
| JPAC330 | 48        | 52      | 4             | 1310        | 231                                   | 525                     | 66                                     | 260                                   | 42                                    | 10.5                                  | 29                                    | 3.7                                   | 17.7                                  | 2.9                                   | 8                                     | 0.9                                   | 6.4                                   | 0.8                                   | 106                                  | 33                                    | 18        | 3        |
| JPAC330 | 52        | 56      | 4             | 1132        | 201                                   | 463                     | 58                                     | 222                                   | 38                                    | 9                                     | 24                                    | 2.9                                   | 14.5                                  | 2.5                                   | 6.3                                   | 0.7                                   | 5.6                                   | 0.6                                   | 86                                   | 31                                    | 17        | 3        |
| JPAC330 | 56        | 60      | 4             | 1313        | 259                                   | 540                     | 65                                     | 245                                   | 41                                    | 9.8                                   | 27                                    | 3.4                                   | 15.4                                  | 2.8                                   | 6.7                                   | 0.9                                   | 6                                     | 0.8                                   | 91                                   | 34                                    | 21        | 5        |
| JPAC330 | 60        | 64      | 4             | 1036        | 195                                   | 424                     | 51                                     | 199                                   | 35                                    | 7.7                                   | 21                                    | 2.8                                   | 13.1                                  | 2.3                                   | 5.9                                   | 0.7                                   | 4.9                                   | 0.6                                   | 74                                   | 30                                    | 15        | 5        |
| JPAC330 | 64        | 68      | 4             | 1000        | 189                                   | 414                     | 50                                     | 189                                   | 33                                    | 7.3                                   | 21                                    | 2.6                                   | 12.6                                  | 2.1                                   | 5.7                                   | 0.7                                   | 4.4                                   | 0.6                                   | 68                                   | 32                                    | 14        | 2        |
| JPAC330 | 68        | 71      | 3             | 990         | 186                                   | 412                     | 49                                     | 189                                   | 33                                    | 7                                     | 20                                    | 2.5                                   | 12.1                                  | 2.2                                   | 5                                     | 0.7                                   | 4.7                                   | 0.5                                   | 68                                   | 31                                    | 13        | 2        |
| JPAC331 | 12        | 16      | 4             | 844         | 184                                   | 329                     | 44                                     | 177                                   | 28                                    | 6.2                                   | 16                                    | 2                                     | 8.9                                   | 1.5                                   | 3.5                                   | 0.4                                   | 2.8                                   | 0.3                                   | 41                                   | 38                                    | 30        | 2        |
| JPAC331 | 16        | 20      | 4             | 1561        | 285                                   | 661                     | 81                                     | 334                                   | 63                                    | 12.2                                  | 32                                    | 3.7                                   | 15.7                                  | 2.3                                   | 4.8                                   | 0.5                                   | 3                                     | 0.4                                   | 64                                   | 49                                    | 40        | 3        |
| JPAC331 | 20        | 24      | 4             | 2163        | 352                                   | 907                     | 98                                     | 404                                   | 75                                    | 17.1                                  | 54                                    | 6.7                                   | 31.8                                  | 5.3                                   | 14.1                                  | 1.6                                   | 9.5                                   | 1                                     | 187                                  | 44                                    | 39        | 2        |
| JPAC331 | 24        | 28      | 4             | 1976        | 384                                   | 867                     | 101                                    | 370                                   | 59                                    | 13.7                                  | 37                                    | 4.4                                   | 21                                    | 3.3                                   | 8                                     | 0.9                                   | 5.4                                   | 0.7                                   | 102                                  | 44                                    | 44        | 4        |
| JPAC331 | 28        | 32      | 4             | 2054        | 407                                   | 872                     | 109                                    | 416                                   | 72                                    | 16                                    | 42                                    | 4.9                                   | 21.5                                  | 3.2                                   | 7                                     | 0.8                                   | 4.8                                   | 0.6                                   | 77                                   | 50                                    | 47        | 5        |
| JPAC331 | 32        | 36      | 4             | 1837        | 321                                   | 856                     | 88                                     | 335                                   | 59                                    | 13.8                                  | 38                                    | 4.3                                   | 20.7                                  | 3.4                                   | 7.4                                   | 0.9                                   | 5.6                                   | 0.6                                   | 85                                   | 41                                    | 42        | 5        |
| JPAC331 | 36        | 40      | 4             | 1540        | 269                                   | 614                     | 73                                     | 294                                   | 53                                    | 12.6                                  | 45                                    | 5.2                                   | 27.1                                  | 4.9                                   | 10.7                                  | 1.3                                   | 7.6                                   | 1                                     | 123                                  | 38                                    | 33        | 6        |
| JPAC331 | 40        | 44      | 4             | 1379        | 254                                   | 596                     | 64                                     | 239                                   | 41                                    | 9.4                                   | 34                                    | 4.1                                   | 19.1                                  | 3.5                                   | 8.3                                   | 1.2                                   | 7.2                                   | 1.1                                   | 98                                   | 38                                    | 32        | 6        |
| JPAC331 | 44        | 48      | 4             | 1786        | 306                                   | 760                     | 90                                     | 345                                   | 57                                    | 12.3                                  | 41                                    | 4.8                                   | 23.4                                  | 4.1                                   | 10.3                                  | 1.6                                   | 9.4                                   | 1.4                                   | 119                                  | 37                                    | 31        | 6        |
| JPAC331 | 48        | 52      | 4             | 1418        | 221                                   | 527                     | 65                                     | 257                                   | 42                                    | 10.3                                  | 36                                    | 4.7                                   | 25.4                                  | 5.7                                   | 14.6                                  | 2.2                                   | 13                                    | 2                                     | 194                                  | 32                                    | 20        | 4        |
| JPAC331 | 52        | 56      | 4             | 869         | 154                                   | 366                     | 45                                     | 173                                   | 29                                    | 6.2                                   | 18                                    | 2.1                                   | 10.9                                  | 1.8                                   | 4.7                                   | 0.7                                   | 3.7                                   | 0.5                                   | 54                                   | 29                                    | 14        | 3        |
| JPAC331 | 56        | 57      | 1             | 675         | 125                                   | 285                     | 35                                     | 130                                   | 21                                    | 4.8                                   | 14                                    | 1.7                                   | 7.6                                   | 1.4                                   | 3.6                                   | 0.5                                   | 3.1                                   | 0.4                                   | 42                                   | 28                                    | 11        | 2        |
| JPAC332 | 12        | 16      | 4             | 326         | 108                                   | 117                     | 17                                     | 53                                    | 6                                     | 1.3                                   | 4                                     | 0.5                                   | 2.6                                   | 0.5                                   | 1.2                                   | 0.2                                   | 1.1                                   | 0.1                                   | 14                                   | 37                                    | 28        | 2        |
| JPAC332 | 16        | 20      | 4             | 1146        | 337                                   | 485                     | 64                                     | 182                                   | 23                                    | 4.3                                   | 12                                    | 1.4                                   | 6.4                                   | 1.2                                   | 2.3                                   | 0.3                                   | 1.8                                   | 0.2                                   | 27                                   | 51                                    | 39        | 3        |
| JPAC332 | 20        | 24      | 4             | 1712        | 349                                   | 803                     | 86                                     | 302                                   | 45                                    | 10                                    | 29                                    | 3.4                                   | 14.4                                  | 2.4                                   | 5.2                                   | 0.7                                   | 3.3                                   | 0.4                                   | 58                                   | 51                                    | 36        | 4        |
| JPAC332 | 24        | 28      | 4             | 1905        | 352                                   | 919                     | 95                                     | 343                                   | 54                                    | 11.6                                  | 36                                    | 4.1                                   | 17.6                                  | 2.7                                   | 5.5                                   | 0.6                                   | 3.1                                   | 0.4                                   | 61                                   | 45                                    | 26        | 3        |
| JPAC332 | 28        | 32      | 4             | 1442        | 304                                   | 581                     | 87                                     | 313                                   | 44                                    | 9                                     | 24                                    | 2.8                                   | 12.6                                  | 2.1                                   | 4.3                                   | 0.5                                   | 2.5                                   | 0.4                                   | 55                                   | 47                                    | 28        | 3        |
| JPAC332 | 32        | 36      | 4             | 1170        | 266                                   | 486                     | 67                                     | 231                                   | 33                                    | 6.6                                   | 19                                    | 2.2                                   | 10.1                                  | 1.7                                   | 3.4                                   | 0.5                                   | 2.7                                   | 0.4                                   | 40                                   | 51                                    | 29        | 3        |
| JPAC332 | 36        | 40      | 4             | 1603        | 304                                   | 724                     | 87                                     | 322                                   | 45                                    | 9.4                                   | 25                                    | 2.9                                   | 13.7                                  | 2.3                                   | 4.8                                   | 0.6                                   | 3.8                                   | 0.6                                   | 59                                   | 49                                    | 27        | 3        |
| JPAC332 | 40        | 44      | 4             | 1591        | 294                                   | 728                     | 82                                     | 307                                   | 50                                    | 10.1                                  | 28                                    | 3.2                                   | 14                                    | 2.3                                   | 5.2                                   | 0.8                                   | 4.6                                   | 0.6                                   | 62                                   | 47                                    | 25        | 3        |
| JPAC332 | 44        | 48      | 4             | 1797        | 321                                   | 803                     | 86                                     | 327                                   | 54                                    | 11.9                                  | 38                                    | 4.5                                   | 21.6                                  | 3.9                                   | 8.5                                   | 1.1                                   | 6.7                                   | 1                                     | 109                                  | 39                                    | 22        | 4        |
| JPAC332 | 48        | 52      | 4             | 1294        | 229                                   | 545                     | 64                                     | 245                                   | 41                                    | 8.7                                   | 28                                    | 3.4                                   | 16.4                                  | 3.2                                   | 7.6                                   | 1.1                                   | 6.9                                   | 1                                     | 94                                   | 33                                    | 17        | 4        |
| JPAC332 | 52        | 55      | 3             | 1084        | 201                                   | 459                     | 55                                     | 208                                   | 35                                    | 7.3                                   | 23                                    | 2.9                                   | 13.3                                  | 2.3                                   | 6                                     | 0.8                                   | 4.5                                   | 0.7                                   | 67                                   | 29                                    | 17        | 3        |
| JPAC333 | 24        | 28      | 4             | 217         | 65                                    | 98                      | 9                                      | 24                                    | 3                                     | 0.7                                   | 2                                     | 0.4                                   | 2                                     | 0.4                                   | 1.2                                   | 0.2                                   | 1.4                                   | 0.2                                   | 10                                   | 72                                    | 45        | 4        |
| JPAC333 | 28        | 32      | 4             | 834         | 188                                   | 341                     | 46                                     | 160                                   | 27                                    | 5.8                                   | 14                                    | 1.8                                   | 8.4                                   | 1.4                                   | 3.3                                   | 0.4                                   | 2.8                                   | 0.4                                   | 35                                   | 56                                    | 35        | 8        |
| JPAC333 | 32        | 36      | 4             | 2551        | 559                                   | 1241                    | 112                                    | 384                                   | 58                                    | 12.8                                  | 38                                    | 4.7                                   | 21.5                                  | 3.8                                   | 8.5                                   | 1.1                                   | 5.8                                   | 0.7                                   | 102                                  | 67                                    | 42        | 4        |
| JPAC333 | 36        | 40      | 4             | 2173        | 436                                   | 1044                    | 102                                    | 362                                   | 54                                    | 11.4                                  | 33                                    | 4                                     | 18                                    | 3.2                                   | 7.3                                   | 1                                     | 4.8                                   | 0.7                                   | 93                                   | 52                                    | 24        | 3        |
| JPAC333 | 40        | 44      | 4             | 2311        | 448                                   | 1081                    | 118                                    | 425                                   | 61                                    | 12.4                                  | 35                                    | 4.1                                   | 19.9                                  | 3.4                                   | 7.7                                   | 1                                     | 6                                     | 0.7                                   | 90                                   | 50                                    | 26        | 4        |
| JPAC333 | 44        | 48      | 4             | 1790        | 321                                   | 834                     | 84                                     | 311                                   | 49                                    | 10.7                                  | 33                                    | 4                                     | 19.3                                  | 3.5                                   | 8.8                                   | 1.2                                   | 7.4                                   | 1                                     | 102                                  | 50                                    | 25        | 6        |
| JPAC333 | 48        | 52      | 4             | 2691        | 439                                   | 1141                    | 137                                    | 541                                   | 92                                    | 19.4                                  | 60                                    | 7                                     | 33.2                                  | 6.1                                   | 14                                    | 2.2                                   | 12.3                                  | 1.9                                   | 185                                  | 47                                    | 25        | 8        |
| JPAC333 | 52        | 56      | 4             | 1336        | 209                                   | 513                     | 63                                     | 252                                   | 42                                    | 10.1                                  | 35                                    | 4.4                                   | 22.8                                  | 4.7                                   | 11.9                                  | 1.9                                   | 10.9                                  | 1.6                                   | 153                                  | 39                                    | 17        | 4        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC333 | 56        | 60      | 4             | 1138        | 196                                   | 459                     | 56                                     | 218                                   | 38                                    | 8.3                                   | 26                                    | 3.2                                   | 16.4                                  | 3.2                                   | 7.8                                   | 1.1                                   | 6.8                                   | 1                                     | 98                                   | 32                                    | 17        | 3        |
| JPAC333 | 60        | 61      | 1             | 1209        | 209                                   | 495                     | 60                                     | 233                                   | 39                                    | 8.7                                   | 27                                    | 3.5                                   | 16.5                                  | 3.3                                   | 8.1                                   | 1.1                                   | 6.5                                   | 1                                     | 98                                   | 34                                    | 18        | 3        |
| JPAC334 | 32        | 36      | 4             | 308         | 66                                    | 128                     | 16                                     | 60                                    | 9                                     | 1.9                                   | 5                                     | 0.7                                   | 3.5                                   | 0.7                                   | 1.8                                   | 0.3                                   | 1.8                                   | 0.3                                   | 13                                   | 56                                    | 47        | 4        |
| JPAC334 | 36        | 40      | 4             | 942         | 285                                   | 446                     | 40                                     | 108                                   | 15                                    | 3.1                                   | 9                                     | 1.1                                   | 5.5                                   | 0.9                                   | 2.3                                   | 0.4                                   | 2.1                                   | 0.3                                   | 23                                   | 49                                    | 37        | 4        |
| JPAC334 | 40        | 44      | 4             | 1183        | 312                                   | 527                     | 51                                     | 158                                   | 24                                    | 5.2                                   | 16                                    | 2                                     | 9.8                                   | 2                                     | 5.1                                   | 0.7                                   | 3.5                                   | 0.5                                   | 67                                   | 43                                    | 22        | 2        |
| JPAC334 | 44        | 48      | 4             | 1625        | 323                                   | 802                     | 79                                     | 262                                   | 41                                    | 8.6                                   | 22                                    | 2.8                                   | 12                                    | 2.1                                   | 5.4                                   | 0.7                                   | 3.9                                   | 0.6                                   | 60                                   | 48                                    | 31        | 4        |
| JPAC334 | 48        | 52      | 4             | 2989        | 539                                   | 1486                    | 160                                    | 551                                   | 84                                    | 17                                    | 43                                    | 5.1                                   | 21.2                                  | 3.1                                   | 7.6                                   | 0.9                                   | 4.9                                   | 0.7                                   | 65                                   | 33                                    | 21        | 6        |
| JPAC334 | 52        | 56      | 4             | 1603        | 246                                   | 606                     | 74                                     | 297                                   | 58                                    | 12.7                                  | 43                                    | 5.6                                   | 29                                    | 5.6                                   | 15.4                                  | 2.1                                   | 12.7                                  | 1.9                                   | 194                                  | 30                                    | 21        | 4        |
| JPAC334 | 56        | 60      | 4             | 1601        | 279                                   | 683                     | 80                                     | 301                                   | 54                                    | 11.1                                  | 34                                    | 4.2                                   | 20.1                                  | 3.5                                   | 9.5                                   | 1.2                                   | 7                                     | 1.1                                   | 112                                  | 31                                    | 24        | 4        |
| JPAC334 | 60        | 64      | 4             | 1529        | 267                                   | 668                     | 77                                     | 283                                   | 52                                    | 11.1                                  | 33                                    | 4                                     | 18.8                                  | 3.3                                   | 8.4                                   | 1.1                                   | 6.3                                   | 0.9                                   | 95                                   | 30                                    | 24        | 4        |
| JPAC334 | 64        | 66      | 2             | 1430        | 246                                   | 615                     | 73                                     | 273                                   | 49                                    | 10.3                                  | 32                                    | 3.9                                   | 18.7                                  | 3.1                                   | 8.6                                   | 1                                     | 5.8                                   | 0.9                                   | 90                                   | 29                                    | 22        | 4        |
| JPAC335 | 8         | 12      | 4             | 442         | 140                                   | 204                     | 18                                     | 53                                    | 7                                     | 1.8                                   | 4                                     | 0.4                                   | 2.2                                   | 0.4                                   | 1                                     | 0.1                                   | 0.8                                   | 0.1                                   | 12                                   | 26                                    | 14        | 1        |
| JPAC335 | 12        | 16      | 4             | 1080        | 195                                   | 473                     | 54                                     | 201                                   | 33                                    | 6.9                                   | 21                                    | 2.6                                   | 12.9                                  | 2.3                                   | 5.7                                   | 0.8                                   | 4.3                                   | 0.6                                   | 68                                   | 26                                    | 14        | 2        |
| JPAC335 | 16        | 18      | 2             | 792         | 140                                   | 345                     | 41                                     | 146                                   | 27                                    | 5.2                                   | 17                                    | 2                                     | 9.6                                   | 1.7                                   | 4.2                                   | 0.5                                   | 3.5                                   | 0.5                                   | 50                                   | 26                                    | 13        | 1        |
| JPAC336 | 20        | 24      | 4             | 552         | 158                                   | 239                     | 31                                     | 85                                    | 10                                    | 2                                     | 6                                     | 0.7                                   | 3.5                                   | 0.5                                   | 1.6                                   | 0.2                                   | 1.3                                   | 0.1                                   | 15                                   | 39                                    | 31        | 3        |
| JPAC336 | 24        | 28      | 4             | 1939        | 393                                   | 980                     | 101                                    | 315                                   | 40                                    | 8.1                                   | 21                                    | 2.6                                   | 11.8                                  | 2                                     | 4.8                                   | 0.6                                   | 3.6                                   | 0.5                                   | 55                                   | 50                                    | 32        | 3        |
| JPAC336 | 28        | 32      | 4             | 2530        | 391                                   | 1290                    | 119                                    | 418                                   | 62                                    | 12.7                                  | 36                                    | 4.6                                   | 24.6                                  | 4.6                                   | 13.1                                  | 1.8                                   | 11.2                                  | 1.5                                   | 141                                  | 43                                    | 30        | 3        |
| JPAC336 | 32        | 36      | 4             | 1725        | 317                                   | 787                     | 91                                     | 318                                   | 51                                    | 10.7                                  | 30                                    | 3.6                                   | 17.7                                  | 3                                     | 7.5                                   | 0.8                                   | 4.2                                   | 0.5                                   | 83                                   | 44                                    | 35        | 3        |
| JPAC336 | 36        | 40      | 4             | 1429        | 287                                   | 642                     | 76                                     | 261                                   | 40                                    | 8                                     | 23                                    | 2.8                                   | 14.3                                  | 2.4                                   | 5.7                                   | 0.7                                   | 4                                     | 0.5                                   | 61                                   | 43                                    | 36        | 5        |
| JPAC336 | 40        | 44      | 4             | 2107        | 391                                   | 961                     | 109                                    | 392                                   | 66                                    | 14.2                                  | 44                                    | 5.1                                   | 24.1                                  | 3.7                                   | 9                                     | 1                                     | 6.4                                   | 1                                     | 82                                   | 43                                    | 29        | 6        |
| JPAC336 | 44        | 48      | 4             | 1792        | 301                                   | 811                     | 90                                     | 339                                   | 60                                    | 12.8                                  | 38                                    | 4.8                                   | 22.7                                  | 3.6                                   | 8.5                                   | 1.1                                   | 6.6                                   | 0.9                                   | 92                                   | 38                                    | 22        | 5        |
| JPAC336 | 48        | 52      | 4             | 1912        | 330                                   | 859                     | 98                                     | 349                                   | 60                                    | 13.4                                  | 40                                    | 4.7                                   | 23.5                                  | 3.9                                   | 9.8                                   | 1.3                                   | 7.8                                   | 1.1                                   | 112                                  | 38                                    | 25        | 6        |
| JPAC336 | 52        | 56      | 4             | 1542        | 244                                   | 650                     | 75                                     | 283                                   | 51                                    | 10.6                                  | 33                                    | 4.4                                   | 23                                    | 4.2                                   | 12.1                                  | 1.7                                   | 11                                    | 1.8                                   | 138                                  | 34                                    | 24        | 5        |
| JPAC336 | 56        | 60      | 4             | 1743        | 257                                   | 769                     | 89                                     | 331                                   | 60                                    | 11.3                                  | 37                                    | 4.7                                   | 23.5                                  | 4.1                                   | 11.2                                  | 1.5                                   | 8.9                                   | 1.3                                   | 134                                  | 33                                    | 26        | 5        |
| JPAC336 | 60        | 63      | 3             | 899         | 144                                   | 384                     | 47                                     | 174                                   | 30                                    | 6.6                                   | 18                                    | 2.4                                   | 11.9                                  | 2.1                                   | 5.6                                   | 0.8                                   | 4.6                                   | 0.8                                   | 67                                   | 30                                    | 14        | 3        |
| JPAC337 | 28        | 32      | 4             | 450         | 141                                   | 168                     | 24                                     | 71                                    | 12                                    | 2.4                                   | 6                                     | 0.7                                   | 4.2                                   | 0.7                                   | 1.7                                   | 0.2                                   | 1.5                                   | 0.2                                   | 18                                   | 56                                    | 41        | 4        |
| JPAC337 | 32        | 36      | 4             | 1156        | 296                                   | 416                     | 68                                     | 226                                   | 38                                    | 7.7                                   | 22                                    | 2.7                                   | 12.6                                  | 2.1                                   | 5                                     | 0.5                                   | 2.9                                   | 0.4                                   | 56                                   | 59                                    | 38        | 4        |
| JPAC337 | 36        | 40      | 4             | 1608        | 367                                   | 625                     | 90                                     | 313                                   | 52                                    | 10.7                                  | 31                                    | 3.6                                   | 17.8                                  | 2.9                                   | 7.8                                   | 0.9                                   | 4.5                                   | 0.5                                   | 83                                   | 51                                    | 31        | 3        |
| JPAC337 | 40        | 44      | 4             | 598         | 89                                    | 344                     | 22                                     | 74                                    | 12                                    | 3                                     | 9                                     | 1.3                                   | 7                                     | 1.3                                   | 2.9                                   | 0.3                                   | 1.4                                   | 0.1                                   | 31                                   | 34                                    | 5         | 3        |
| JPAC337 | 44        | 48      | 4             | 465         | 65                                    | 248                     | 19                                     | 67                                    | 11                                    | 2.8                                   | 9                                     | 1.3                                   | 7.2                                   | 1.2                                   | 3                                     | 0.4                                   | 2.1                                   | 0.2                                   | 30                                   | 42                                    | 5         | 6        |
| JPAC337 | 48        | 52      | 4             | 723         | 104                                   | 308                     | 29                                     | 127                                   | 28                                    | 7.2                                   | 24                                    | 3                                     | 15.4                                  | 2.6                                   | 5.9                                   | 0.7                                   | 4                                     | 0.5                                   | 65                                   | 41                                    | 6         | 7        |
| JPAC337 | 52        | 56      | 4             | 1852        | 233                                   | 717                     | 78                                     | 306                                   | 58                                    | 14.3                                  | 53                                    | 7.1                                   | 40.3                                  | 8.6                                   | 25.7                                  | 3.8                                   | 28                                    | 4.4                                   | 277                                  | 34                                    | 19        | 6        |
| JPAC337 | 56        | 60      | 4             | 1658        | 222                                   | 603                     | 69                                     | 280                                   | 52                                    | 12.9                                  | 46                                    | 6.5                                   | 36.6                                  | 7.6                                   | 23                                    | 3.4                                   | 25.1                                  | 4                                     | 267                                  | 31                                    | 18        | 5        |
| JPAC337 | 60        | 64      | 4             | 1204        | 198                                   | 500                     | 60                                     | 228                                   | 40                                    | 8.7                                   | 28                                    | 3.4                                   | 17.4                                  | 3.1                                   | 8.3                                   | 1.2                                   | 8                                     | 1.2                                   | 99                                   | 29                                    | 18        | 3        |
| JPAC337 | 64        | 68      | 4             | 1161        | 194                                   | 491                     | 59                                     | 234                                   | 38                                    | 7.4                                   | 23                                    | 3                                     | 15.2                                  | 2.4                                   | 6.6                                   | 0.9                                   | 5.6                                   | 0.8                                   | 81                                   | 26                                    | 17        | 3        |
| JPAC338 | 8         | 12      | 4             | 131         | 22                                    | 66                      | 5                                      | 18                                    | 3                                     | 0.8                                   | 2                                     | 0.3                                   | 1.7                                   | 0.3                                   | 0.8                                   | 0.1                                   | 0.9                                   | 0.1                                   | 10                                   | 22                                    | 13        | 2        |
| JPAC338 | 12        | 16      | 4             | 732         | 221                                   | 271                     | 39                                     | 123                                   | 18                                    | 4.1                                   | 11                                    | 1.4                                   | 6.4                                   | 1.1                                   | 2.6                                   | 0.3                                   | 1.6                                   | 0.3                                   | 32                                   | 60                                    | 50        | 3        |
| JPAC338 | 16        | 20      | 4             | 805         | 225                                   | 300                     | 45                                     | 143                                   | 22                                    | 4.8                                   | 14                                    | 1.7                                   | 7.8                                   | 1.3                                   | 2.9                                   | 0.4                                   | 2.1                                   | 0.3                                   | 35                                   | 62                                    | 45        | 3        |
| JPAC338 | 20        | 24      | 4             | 1708        | 385                                   | 558                     | 103                                    | 384                                   | 67                                    | 13.7                                  | 42                                    | 5.2                                   | 23.8                                  | 4                                     | 9.3                                   | 1.1                                   | 5.6                                   | 0.6                                   | 108                                  | 46                                    | 37        | 3        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC338 | 24        | 28      | 4             | 1722        | 353                                   | 705                     | 90                                     | 316                                   | 53                                    | 11.2                                  | 33                                    | 4.4                                   | 20.6                                  | 3.4                                   | 9.2                                   | 1                                     | 6.2                                   | 0.8                                   | 115                                  | 47                                    | 38        | 4        |
| JPAC338 | 28        | 32      | 4             | 1569        | 317                                   | 760                     | 76                                     | 248                                   | 41                                    | 8.3                                   | 25                                    | 3.2                                   | 14.5                                  | 2.3                                   | 5.5                                   | 0.7                                   | 4.1                                   | 0.5                                   | 63                                   | 47                                    | 37        | 6        |
| JPAC338 | 32        | 36      | 4             | 1241        | 256                                   | 617                     | 57                                     | 186                                   | 31                                    | 6.3                                   | 19                                    | 2.4                                   | 11.4                                  | 1.8                                   | 4.4                                   | 0.5                                   | 2.9                                   | 0.4                                   | 46                                   | 47                                    | 34        | 7        |
| JPAC338 | 36        | 40      | 4             | 1381        | 308                                   | 559                     | 77                                     | 259                                   | 43                                    | 9.6                                   | 27                                    | 3.5                                   | 15.8                                  | 2.5                                   | 6.3                                   | 0.7                                   | 4.3                                   | 0.5                                   | 65                                   | 46                                    | 34        | 8        |
| JPAC338 | 40        | 44      | 4             | 1693        | 344                                   | 714                     | 91                                     | 321                                   | 56                                    | 11.9                                  | 37                                    | 4.7                                   | 21.8                                  | 3.3                                   | 7.7                                   | 0.9                                   | 5.2                                   | 0.6                                   | 75                                   | 49                                    | 44        | 8        |
| JPAC338 | 44        | 48      | 4             | 4671        | 610                                   | 1720                    | 230                                    | 993                                   | 190                                   | 41.5                                  | 142                                   | 18.6                                  | 97                                    | 18.1                                  | 49.1                                  | 5.9                                   | 28.9                                  | 2.6                                   | 527                                  | 40                                    | 40        | 10       |
| JPAC338 | 48        | 52      | 4             | 2835        | 388                                   | 1278                    | 128                                    | 493                                   | 88                                    | 19.5                                  | 65                                    | 8.5                                   | 44.2                                  | 8.2                                   | 22.6                                  | 2.9                                   | 15.7                                  | 1.7                                   | 273                                  | 42                                    | 33        | 9        |
| JPAC338 | 52        | 56      | 4             | 2335        | 314                                   | 1021                    | 120                                    | 493                                   | 92                                    | 19.7                                  | 59                                    | 7.3                                   | 33.2                                  | 5.3                                   | 13                                    | 1.7                                   | 9.9                                   | 1.3                                   | 145                                  | 42                                    | 26        | 8        |
| JPAC338 | 56        | 60      | 4             | 2317        | 287                                   | 888                     | 105                                    | 448                                   | 91                                    | 21.8                                  | 71                                    | 9.7                                   | 49.2                                  | 8.9                                   | 25.8                                  | 3.5                                   | 23.3                                  | 3.4                                   | 281                                  | 42                                    | 28        | 8        |
| JPAC338 | 60        | 65      | 5             | 1496        | 242                                   | 603                     | 74                                     | 287                                   | 51                                    | 12.4                                  | 37                                    | 4.5                                   | 22.6                                  | 4                                     | 11                                    | 1.5                                   | 10.6                                  | 1.7                                   | 135                                  | 36                                    | 26        | 6        |
| JPAC339 | 20        | 24      | 4             | 115         | 30                                    | 43                      | 6                                      | 18                                    | 3                                     | 0.7                                   | 2                                     | 0.3                                   | 1.8                                   | 0.3                                   | 0.9                                   | 0.2                                   | 1.2                                   | 0.2                                   | 9                                    | 56                                    | 35        | 4        |
| JPAC339 | 24        | 28      | 4             | 613         | 218                                   | 201                     | 38                                     | 110                                   | 11                                    | 2.6                                   | 6                                     | 0.8                                   | 3.9                                   | 0.7                                   | 1.7                                   | 0.2                                   | 1.7                                   | 0.3                                   | 18                                   | 70                                    | 34        | 4        |
| JPAC339 | 28        | 32      | 4             | 1502        | 426                                   | 597                     | 83                                     | 261                                   | 37                                    | 7.4                                   | 20                                    | 2.4                                   | 10.4                                  | 1.7                                   | 4.1                                   | 0.5                                   | 2.6                                   | 0.4                                   | 48                                   | 59                                    | 37        | 4        |
| JPAC339 | 32        | 36      | 4             | 2102        | 556                                   | 822                     | 125                                    | 397                                   | 55                                    | 11.5                                  | 30                                    | 3.5                                   | 16.3                                  | 2.5                                   | 6.1                                   | 0.7                                   | 4.4                                   | 0.5                                   | 73                                   | 78                                    | 47        | 4        |
| JPAC339 | 36        | 40      | 4             | 3446        | 569                                   | 1382                    | 179                                    | 755                                   | 141                                   | 30                                    | 84                                    | 10.4                                  | 47.7                                  | 7.6                                   | 18.4                                  | 2.1                                   | 10.7                                  | 1                                     | 209                                  | 59                                    | 34        | 3        |
| JPAC339 | 40        | 44      | 4             | 2329        | 392                                   | 1149                    | 110                                    | 390                                   | 61                                    | 12.8                                  | 37                                    | 4.4                                   | 21.7                                  | 4                                     | 10.1                                  | 1.2                                   | 5.7                                   | 0.7                                   | 131                                  | 47                                    | 31        | 4        |
| JPAC339 | 44        | 48      | 4             | 1888        | 328                                   | 931                     | 86                                     | 290                                   | 44                                    | 9.6                                   | 29                                    | 3.6                                   | 18.2                                  | 3.3                                   | 9.3                                   | 1.2                                   | 7.6                                   | 1                                     | 126                                  | 44                                    | 41        | 6        |
| JPAC339 | 48        | 52      | 4             | 2236        | 374                                   | 1018                    | 113                                    | 418                                   | 74                                    | 16.4                                  | 50                                    | 6                                     | 27.4                                  | 4.3                                   | 9.9                                   | 1.3                                   | 7.2                                   | 1                                     | 117                                  | 36                                    | 26        | 6        |
| JPAC339 | 52        | 56      | 4             | 2110        | 308                                   | 930                     | 106                                    | 406                                   | 65                                    | 13.9                                  | 43                                    | 5.4                                   | 27.3                                  | 4.8                                   | 13.9                                  | 1.9                                   | 12.8                                  | 1.9                                   | 171                                  | 32                                    | 20        | 4        |
| JPAC339 | 56        | 60      | 4             | 1223        | 201                                   | 509                     | 62                                     | 229                                   | 38                                    | 8.2                                   | 25                                    | 3.2                                   | 16.2                                  | 2.9                                   | 8.2                                   | 1.1                                   | 7.2                                   | 1.1                                   | 112                                  | 33                                    | 16        | 3        |
| JPAC339 | 60        | 64      | 4             | 994         | 171                                   | 421                     | 52                                     | 197                                   | 32                                    | 7.2                                   | 20                                    | 2.5                                   | 12.1                                  | 2                                     | 5.2                                   | 0.7                                   | 4.2                                   | 0.6                                   | 67                                   | 32                                    | 14        | 3        |
| JPAC339 | 64        | 68      | 4             | 888         | 157                                   | 378                     | 47                                     | 171                                   | 28                                    | 6                                     | 18                                    | 2.3                                   | 10.6                                  | 1.8                                   | 4.7                                   | 0.6                                   | 4.2                                   | 0.5                                   | 58                                   | 31                                    | 15        | 3        |
| JPAC339 | 68        | 71      | 3             | 820         | 145                                   | 355                     | 43                                     | 154                                   | 26                                    | 5.9                                   | 17                                    | 2.1                                   | 10.1                                  | 1.6                                   | 4.4                                   | 0.5                                   | 3.6                                   | 0.5                                   | 53                                   | 26                                    | 17        | 3        |
| JPAC340 | 8         | 12      | 4             | 132         | 24                                    | 71                      | 5                                      | 15                                    | 3                                     | 0.7                                   | 2                                     | 0.3                                   | 1.7                                   | 0.3                                   | 0.7                                   | 0.1                                   | 1                                     | 0.1                                   | 8                                    | 22                                    | 18        | 2        |
| JPAC340 | 12        | 16      | 4             | 467         | 141                                   | 146                     | 28                                     | 87                                    | 12                                    | 2.4                                   | 8                                     | 1                                     | 5.1                                   | 1                                     | 2.4                                   | 0.3                                   | 1.9                                   | 0.3                                   | 30                                   | 37                                    | 25        | 2        |
| JPAC340 | 16        | 20      | 4             | 914         | 266                                   | 373                     | 47                                     | 141                                   | 20                                    | 3.9                                   | 12                                    | 1.6                                   | 7.2                                   | 1.3                                   | 2.9                                   | 0.4                                   | 2.3                                   | 0.3                                   | 35                                   | 60                                    | 36        | 3        |
| JPAC340 | 20        | 24      | 4             | 1032        | 229                                   | 387                     | 59                                     | 205                                   | 33                                    | 6.8                                   | 22                                    | 2.7                                   | 13.4                                  | 2.1                                   | 5.1                                   | 0.6                                   | 3.1                                   | 0.4                                   | 64                                   | 48                                    | 23        | 2        |
| JPAC340 | 24        | 28      | 4             | 1211        | 240                                   | 453                     | 68                                     | 252                                   | 43                                    | 8.8                                   | 28                                    | 3.4                                   | 16.5                                  | 2.8                                   | 7                                     | 0.9                                   | 4.5                                   | 0.5                                   | 83                                   | 50                                    | 22        | 2        |
| JPAC340 | 28        | 32      | 4             | 1244        | 258                                   | 563                     | 63                                     | 214                                   | 32                                    | 6.6                                   | 20                                    | 2.4                                   | 11.2                                  | 2                                     | 5                                     | 0.7                                   | 3.6                                   | 0.5                                   | 62                                   | 54                                    | 25        | 3        |
| JPAC340 | 32        | 36      | 4             | 1010        | 213                                   | 440                     | 54                                     | 178                                   | 28                                    | 5.9                                   | 17                                    | 2.1                                   | 10.6                                  | 1.8                                   | 4.5                                   | 0.5                                   | 2.7                                   | 0.4                                   | 53                                   | 48                                    | 22        | 3        |
| JPAC340 | 36        | 40      | 4             | 1343        | 286                                   | 609                     | 70                                     | 228                                   | 34                                    | 6.8                                   | 21                                    | 2.6                                   | 12.6                                  | 2                                     | 5.2                                   | 0.7                                   | 3.8                                   | 0.5                                   | 61                                   | 48                                    | 26        | 4        |
| JPAC340 | 40        | 44      | 4             | 1319        | 278                                   | 565                     | 76                                     | 247                                   | 36                                    | 7.3                                   | 22                                    | 2.7                                   | 12.5                                  | 2.1                                   | 5.5                                   | 0.7                                   | 3.8                                   | 0.5                                   | 62                                   | 48                                    | 24        | 4        |
| JPAC340 | 44        | 48      | 4             | 2257        | 379                                   | 916                     | 124                                    | 472                                   | 79                                    | 16.2                                  | 50                                    | 6.1                                   | 29.6                                  | 5.1                                   | 13.1                                  | 1.6                                   | 9.5                                   | 1.3                                   | 156                                  | 47                                    | 28        | 5        |
| JPAC340 | 48        | 52      | 4             | 2618        | 396                                   | 1069                    | 144                                    | 614                                   | 105                                   | 22.7                                  | 62                                    | 7.1                                   | 31.7                                  | 5                                     | 12.4                                  | 1.5                                   | 8.5                                   | 1.3                                   | 138                                  | 41                                    | 32        | 6        |
| JPAC340 | 52        | 56      | 4             | 1718        | 267                                   | 704                     | 85                                     | 327                                   | 56                                    | 12.7                                  | 41                                    | 5.2                                   | 25.4                                  | 4.6                                   | 12.8                                  | 1.9                                   | 12.1                                  | 1.9                                   | 163                                  | 35                                    | 29        | 5        |
| JPAC340 | 56        | 60      | 4             | 954         | 160                                   | 392                     | 50                                     | 186                                   | 30                                    | 6.5                                   | 21                                    | 2.6                                   | 13.3                                  | 2.4                                   | 6.4                                   | 0.9                                   | 5.5                                   | 0.8                                   | 78                                   | 31                                    | 17        | 3        |
| JPAC340 | 60        | 64      | 4             | 989         | 169                                   | 413                     | 53                                     | 201                                   | 33                                    | 7                                     | 21                                    | 2.6                                   | 12.6                                  | 2.1                                   | 5.3                                   | 0.8                                   | 4.3                                   | 0.7                                   | 66                                   | 29                                    | 18        | 3        |
| JPAC340 | 64        | 67      | 3             | 866         | 148                                   | 361                     | 47                                     | 173                                   | 30                                    | 6                                     | 18                                    | 2.3                                   | 11.5                                  | 1.9                                   | 5.1                                   | 0.6                                   | 3.8                                   | 0.6                                   | 58                                   | 28                                    | 16        | 3        |
| JPAC341 | 12        | 16      | 4             | 262         | 72                                    | 88                      | 16                                     | 52                                    | 8                                     | 1.5                                   | 4                                     | 0.6                                   | 2.9                                   | 0.5                                   | 1.2                                   | 0.1                                   | 1                                     | 0.1                                   | 14                                   | 29                                    | 17        | 1        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC341 | 16        | 20      | 4             | 818         | 194                                   | 312                     | 49                                     | 159                                   | 24                                    | 5.1                                   | 15                                    | 1.8                                   | 8.8                                   | 1.5                                   | 3.2                                   | 0.4                                   | 1.9                                   | 0.3                                   | 43                                   | 46                                    | 26        | 2        |
| JPAC341 | 20        | 24      | 4             | 1128        | 257                                   | 446                     | 70                                     | 227                                   | 32                                    | 6.9                                   | 19                                    | 2.2                                   | 10.9                                  | 1.7                                   | 4                                     | 0.5                                   | 2.5                                   | 0.3                                   | 49                                   | 47                                    | 34        | 3        |
| JPAC341 | 24        | 28      | 4             | 1481        | 290                                   | 612                     | 88                                     | 300                                   | 45                                    | 8.9                                   | 27                                    | 3.3                                   | 15.9                                  | 2.7                                   | 6.2                                   | 0.8                                   | 4.1                                   | 0.5                                   | 79                                   | 51                                    | 36        | 3        |
| JPAC341 | 28        | 32      | 4             | 1027        | 209                                   | 381                     | 61                                     | 213                                   | 36                                    | 7.2                                   | 22                                    | 2.6                                   | 13.1                                  | 2.2                                   | 5.3                                   | 0.7                                   | 4.1                                   | 0.6                                   | 70                                   | 50                                    | 34        | 4        |
| JPAC341 | 32        | 36      | 4             | 1065        | 207                                   | 388                     | 58                                     | 212                                   | 37                                    | 7.7                                   | 25                                    | 3.1                                   | 14.9                                  | 2.8                                   | 7.3                                   | 0.9                                   | 5.1                                   | 0.7                                   | 96                                   | 47                                    | 31        | 4        |
| JPAC341 | 36        | 40      | 4             | 1398        | 277                                   | 640                     | 70                                     | 247                                   | 41                                    | 8.8                                   | 26                                    | 3.1                                   | 14.7                                  | 2.3                                   | 5.1                                   | 0.6                                   | 3                                     | 0.4                                   | 59                                   | 46                                    | 35        | 4        |
| JPAC341 | 40        | 44      | 4             | 1634        | 321                                   | 759                     | 83                                     | 282                                   | 46                                    | 9.6                                   | 28                                    | 3.4                                   | 15.6                                  | 2.6                                   | 5.9                                   | 0.7                                   | 3.7                                   | 0.5                                   | 73                                   | 47                                    | 38        | 5        |
| JPAC341 | 44        | 48      | 4             | 2781        | 439                                   | 1345                    | 129                                    | 484                                   | 80                                    | 16.6                                  | 55                                    | 6.7                                   | 32.5                                  | 5.6                                   | 13.6                                  | 1.6                                   | 8                                     | 0.9                                   | 164                                  | 45                                    | 29        | 6        |
| JPAC341 | 48        | 52      | 4             | 2073        | 325                                   | 968                     | 98                                     | 372                                   | 64                                    | 13.1                                  | 42                                    | 5.2                                   | 26.1                                  | 4.5                                   | 11.4                                  | 1.6                                   | 8.7                                   | 1.2                                   | 133                                  | 46                                    | 28        | 7        |
| JPAC341 | 52        | 56      | 4             | 2764        | 352                                   | 1400                    | 121                                    | 489                                   | 84                                    | 17.3                                  | 56                                    | 6.8                                   | 32.4                                  | 5.6                                   | 14.9                                  | 2.1                                   | 11.7                                  | 1.5                                   | 170                                  | 41                                    | 19        | 6        |
| JPAC341 | 56        | 60      | 4             | 2232        | 283                                   | 979                     | 106                                    | 454                                   | 86                                    | 18.4                                  | 57                                    | 6.9                                   | 32.7                                  | 5.7                                   | 15.1                                  | 2.1                                   | 13.7                                  | 2.1                                   | 172                                  | 34                                    | 23        | 6        |
| JPAC341 | 60        | 64      | 4             | 1279        | 233                                   | 547                     | 65                                     | 240                                   | 40                                    | 8.6                                   | 25                                    | 3                                     | 15.1                                  | 2.8                                   | 7.2                                   | 0.9                                   | 5.7                                   | 0.8                                   | 86                                   | 30                                    | 26        | 4        |
| JPAC341 | 64        | 67      | 3             | 1054        | 181                                   | 451                     | 56                                     | 210                                   | 36                                    | 6.6                                   | 22                                    | 2.7                                   | 12.4                                  | 2.2                                   | 5.7                                   | 0.7                                   | 4.2                                   | 0.5                                   | 65                                   | 26                                    | 22        | 4        |
| JPAC342 | 4         | 8       | 4             | 239         | 52                                    | 99                      | 11                                     | 37                                    | 6                                     | 1.2                                   | 4                                     | 0.6                                   | 3.2                                   | 0.6                                   | 1.7                                   | 0.3                                   | 1.7                                   | 0.2                                   | 20                                   | 21                                    | 18        | 2        |
| JPAC342 | 8         | 12      | 4             | 616         | 154                                   | 267                     | 33                                     | 102                                   | 14                                    | 2.6                                   | 8                                     | 1.1                                   | 5.1                                   | 0.8                                   | 2                                     | 0.3                                   | 1.5                                   | 0.2                                   | 25                                   | 38                                    | 22        | 2        |
| JPAC342 | 12        | 16      | 4             | 1177        | 297                                   | 536                     | 61                                     | 181                                   | 26                                    | 5                                     | 14                                    | 1.8                                   | 9.1                                   | 1.4                                   | 3.1                                   | 0.4                                   | 2.1                                   | 0.3                                   | 40                                   | 52                                    | 26        | 2        |
| JPAC342 | 16        | 20      | 4             | 1224        | 300                                   | 566                     | 61                                     | 184                                   | 27                                    | 5.5                                   | 16                                    | 2                                     | 9.4                                   | 1.4                                   | 3.4                                   | 0.3                                   | 2.3                                   | 0.3                                   | 45                                   | 54                                    | 36        | 2        |
| JPAC342 | 20        | 24      | 4             | 1461        | 357                                   | 690                     | 74                                     | 213                                   | 30                                    | 6                                     | 17                                    | 2                                     | 10.3                                  | 1.7                                   | 4.2                                   | 0.4                                   | 2.9                                   | 0.4                                   | 53                                   | 56                                    | 39        | 3        |
| JPAC342 | 24        | 28      | 4             | 765         | 179                                   | 362                     | 39                                     | 118                                   | 15                                    | 2.8                                   | 9                                     | 1.1                                   | 5.1                                   | 0.9                                   | 2.4                                   | 0.3                                   | 1.9                                   | 0.3                                   | 29                                   | 55                                    | 30        | 3        |
| JPAC342 | 28        | 32      | 4             | 363         | 103                                   | 158                     | 18                                     | 53                                    | 7                                     | 1.9                                   | 5                                     | 0.5                                   | 2.5                                   | 0.4                                   | 0.9                                   | 0.1                                   | 0.7                                   | 0.1                                   | 12                                   | 32                                    | 21        | 1        |
| JPAC342 | 32        | 36      | 4             | 392         | 121                                   | 180                     | 20                                     | 49                                    | 5                                     | 1.4                                   | 3                                     | 0.4                                   | 1.7                                   | 0.3                                   | 0.8                                   | 0.1                                   | 0.8                                   | 0.1                                   | 10                                   | 36                                    | 30        | 1        |
| JPAC342 | 36        | 40      | 4             | 328         | 104                                   | 138                     | 16                                     | 45                                    | 6                                     | 0.9                                   | 3                                     | 0.4                                   | 2.3                                   | 0.3                                   | 0.9                                   | 0.1                                   | 0.8                                   | 0.1                                   | 10                                   | 33                                    | 26        | 1        |
| JPAC342 | 40        | 44      | 4             | 304         | 80                                    | 152                     | 13                                     | 37                                    | 5                                     | 0.9                                   | 3                                     | 0.4                                   | 2.1                                   | 0.3                                   | 0.8                                   | 0.1                                   | 0.7                                   | 0.1                                   | 9                                    | 28                                    | 33        | 1        |
| JPAC342 | 44        | 48      | 4             | 369         | 98                                    | 199                     | 15                                     | 41                                    | 5                                     | 1.4                                   | 2                                     | 0.2                                   | 1.3                                   | 0.2                                   | 0.5                                   | 0                                     | 0.8                                   | 0.1                                   | 5                                    | 28                                    | 32        | 2        |
| JPAC342 | 48        | 52      | 4             | 492         | 87                                    | 327                     | 14                                     | 41                                    | 5                                     | 1.2                                   | 3                                     | 0.4                                   | 2                                     | 0.3                                   | 1                                     | 0.1                                   | 1                                     | 0.1                                   | 10                                   | 33                                    | 33        | 2        |
| JPAC342 | 52        | 56      | 4             | 1670        | 238                                   | 948                     | 73                                     | 264                                   | 41                                    | 8.7                                   | 25                                    | 2.9                                   | 13.1                                  | 1.9                                   | 4.5                                   | 0.6                                   | 3.6                                   | 0.4                                   | 45                                   | 38                                    | 30        | 8        |
| JPAC342 | 56        | 60      | 4             | 1248        | 213                                   | 634                     | 58                                     | 202                                   | 31                                    | 6.9                                   | 19                                    | 2.4                                   | 12.2                                  | 2.1                                   | 5                                     | 0.7                                   | 4.3                                   | 0.6                                   | 57                                   | 36                                    | 27        | 8        |
| JPAC342 | 60        | 64      | 4             | 1646        | 347                                   | 655                     | 93                                     | 327                                   | 53                                    | 11                                    | 33                                    | 4.2                                   | 20.3                                  | 3.3                                   | 7.8                                   | 0.9                                   | 5.9                                   | 0.7                                   | 86                                   | 37                                    | 33        | 6        |
| JPAC342 | 64        | 67      | 3             | 1727        | 320                                   | 669                     | 95                                     | 351                                   | 61                                    | 13.3                                  | 40                                    | 5                                     | 25.6                                  | 4.1                                   | 10.3                                  | 1.4                                   | 9                                     | 1.2                                   | 121                                  | 35                                    | 33        | 7        |
| JPAC343 | 12        | 16      | 4             | 318         | 96                                    | 123                     | 17                                     | 50                                    | 7                                     | 1.5                                   | 4                                     | 0.5                                   | 2.5                                   | 0.4                                   | 1                                     | 0.1                                   | 1                                     | 0.1                                   | 13                                   | 38                                    | 20        | 1        |
| JPAC343 | 16        | 20      | 4             | 514         | 160                                   | 216                     | 26                                     | 72                                    | 10                                    | 1.8                                   | 5                                     | 0.6                                   | 2.8                                   | 0.5                                   | 1.2                                   | 0.1                                   | 1.2                                   | 0.1                                   | 17                                   | 34                                    | 25        | 1        |
| JPAC343 | 20        | 24      | 4             | 320         | 91                                    | 138                     | 13                                     | 42                                    | 6                                     | 1.1                                   | 4                                     | 0.5                                   | 3.1                                   | 0.5                                   | 1.3                                   | 0.2                                   | 1.2                                   | 0.1                                   | 18                                   | 37                                    | 21        | 1        |
| JPAC343 | 24        | 28      | 4             | 217         | 55                                    | 119                     | 8                                      | 24                                    | 3                                     | 0.7                                   | 1                                     | 0.2                                   | 0.8                                   | 0.1                                   | 0.3                                   | 0                                     | 0.5                                   | 0                                     | 5                                    | 32                                    | 24        | 1        |
| JPAC343 | 28        | 32      | 4             | 215         | 65                                    | 102                     | 10                                     | 27                                    | 3                                     | 1                                     | 2                                     | 0.2                                   | 0.9                                   | 0.1                                   | 0.4                                   | 0                                     | 0.5                                   | 0                                     | 5                                    | 33                                    | 25        | 1        |
| JPAC343 | 32        | 36      | 4             | 267         | 80                                    | 120                     | 13                                     | 37                                    | 5                                     | 1.3                                   | 3                                     | 0.2                                   | 1.3                                   | 0.2                                   | 0.6                                   | 0.1                                   | 0.6                                   | 0.1                                   | 6                                    | 32                                    | 26        | 1        |
| JPAC343 | 36        | 40      | 4             | 593         | 129                                   | 313                     | 26                                     | 84                                    | 12                                    | 2.5                                   | 7                                     | 0.7                                   | 3.8                                   | 0.5                                   | 1.1                                   | 0.1                                   | 1                                     | 0.1                                   | 13                                   | 31                                    | 32        | 1        |
| JPAC343 | 40        | 44      | 4             | 497         | 101                                   | 248                     | 22                                     | 74                                    | 11                                    | 2.6                                   | 8                                     | 1                                     | 4.6                                   | 0.8                                   | 1.9                                   | 0.2                                   | 1.8                                   | 0.2                                   | 20                                   | 30                                    | 27        | 2        |
| JPAC343 | 44        | 47      | 3             | 490         | 62                                    | 323                     | 15                                     | 50                                    | 8                                     | 1.7                                   | 5                                     | 0.7                                   | 3.6                                   | 0.6                                   | 1.7                                   | 0.2                                   | 1.9                                   | 0.3                                   | 17                                   | 22                                    | 21        | 1        |
| JPAC344 | 4         | 8       | 4             | 582         | 140                                   | 212                     | 31                                     | 110                                   | 16                                    | 3.1                                   | 11                                    | 1.3                                   | 7.4                                   | 1.3                                   | 3.4                                   | 0.4                                   | 2.5                                   | 0.3                                   | 42                                   | 26                                    | 23        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC344 | 8         | 12      | 4             | 482         | 125                                   | 197                     | 25                                     | 80                                    | 11                                    | 2.7                                   | 8                                     | 1                                     | 5.2                                   | 0.9                                   | 1.9                                   | 0.2                                   | 1.6                                   | 0.2                                   | 23                                   | 36                                    | 22        | 2        |
| JPAC344 | 12        | 16      | 4             | 1326        | 326                                   | 575                     | 72                                     | 225                                   | 32                                    | 7.1                                   | 20                                    | 2.3                                   | 11.3                                  | 1.7                                   | 3.9                                   | 0.5                                   | 2.9                                   | 0.3                                   | 48                                   | 44                                    | 27        | 2        |
| JPAC344 | 16        | 20      | 4             | 1488        | 337                                   | 626                     | 85                                     | 269                                   | 40                                    | 8.6                                   | 25                                    | 3                                     | 14.5                                  | 2.3                                   | 4.9                                   | 0.6                                   | 3.6                                   | 0.4                                   | 68                                   | 49                                    | 29        | 2        |
| JPAC344 | 20        | 24      | 4             | 2014        | 361                                   | 1010                    | 110                                    | 380                                   | 53                                    | 10.6                                  | 25                                    | 2.9                                   | 13.5                                  | 1.8                                   | 3.8                                   | 0.4                                   | 2.7                                   | 0.3                                   | 40                                   | 47                                    | 32        | 3        |
| JPAC344 | 24        | 28      | 4             | 1873        | 340                                   | 880                     | 102                                    | 373                                   | 56                                    | 11.3                                  | 29                                    | 3.3                                   | 15.1                                  | 2.2                                   | 4.8                                   | 0.5                                   | 3.2                                   | 0.4                                   | 54                                   | 46                                    | 30        | 3        |
| JPAC344 | 28        | 32      | 4             | 1493        | 291                                   | 658                     | 82                                     | 287                                   | 44                                    | 9.3                                   | 25                                    | 3.1                                   | 14.8                                  | 2.3                                   | 5.8                                   | 0.6                                   | 3.8                                   | 0.4                                   | 66                                   | 49                                    | 31        | 4        |
| JPAC344 | 32        | 36      | 4             | 2138        | 348                                   | 871                     | 110                                    | 422                                   | 75                                    | 15.6                                  | 56                                    | 6.6                                   | 34.5                                  | 5.7                                   | 14.2                                  | 1.8                                   | 9.2                                   | 1.1                                   | 168                                  | 42                                    | 31        | 4        |
| JPAC344 | 36        | 40      | 4             | 2512        | 382                                   | 1101                    | 130                                    | 518                                   | 97                                    | 20                                    | 61                                    | 7.5                                   | 34.3                                  | 5.2                                   | 12.5                                  | 1.6                                   | 9                                     | 1.1                                   | 132                                  | 42                                    | 30        | 6        |
| JPAC344 | 40        | 44      | 4             | 2231        | 327                                   | 845                     | 114                                    | 465                                   | 88                                    | 17.8                                  | 59                                    | 7.1                                   | 37.2                                  | 6.7                                   | 19.6                                  | 2.7                                   | 18.9                                  | 2.7                                   | 221                                  | 35                                    | 25        | 8        |
| JPAC344 | 44        | 48      | 4             | 1837        | 250                                   | 629                     | 80                                     | 325                                   | 65                                    | 15.7                                  | 56                                    | 7.9                                   | 44.5                                  | 8.3                                   | 25.5                                  | 3.8                                   | 26.3                                  | 4.1                                   | 297                                  | 36                                    | 23        | 7        |
| JPAC344 | 48        | 52      | 4             | 1289        | 198                                   | 494                     | 60                                     | 217                                   | 38                                    | 8.5                                   | 32                                    | 4.3                                   | 23.2                                  | 4.6                                   | 14.1                                  | 2                                     | 12.5                                  | 2                                     | 178                                  | 31                                    | 19        | 5        |
| JPAC344 | 52        | 56      | 4             | 994         | 167                                   | 425                     | 51                                     | 184                                   | 31                                    | 6.3                                   | 21                                    | 2.5                                   | 14                                    | 2.2                                   | 6.4                                   | 0.9                                   | 5.3                                   | 0.8                                   | 78                                   | 27                                    | 16        | 3        |
| JPAC344 | 56        | 57      | 1             | 903         | 155                                   | 389                     | 47                                     | 170                                   | 29                                    | 6.1                                   | 19                                    | 2.3                                   | 12.1                                  | 2                                     | 5.1                                   | 0.6                                   | 4.1                                   | 0.6                                   | 62                                   | 24                                    | 16        | 3        |
| JPAC345 | 4         | 8       | 4             | 434         | 96                                    | 171                     | 23                                     | 75                                    | 12                                    | 2.4                                   | 8                                     | 1.1                                   | 6.6                                   | 1.1                                   | 3.1                                   | 0.4                                   | 2.4                                   | 0.4                                   | 33                                   | 26                                    | 20        | 2        |
| JPAC345 | 8         | 12      | 4             | 952         | 218                                   | 430                     | 51                                     | 152                                   | 22                                    | 4                                     | 14                                    | 1.7                                   | 8.3                                   | 1.4                                   | 4                                     | 0.5                                   | 2.6                                   | 0.4                                   | 44                                   | 42                                    | 23        | 2        |
| JPAC345 | 12        | 16      | 4             | 1307        | 299                                   | 566                     | 71                                     | 220                                   | 30                                    | 5.7                                   | 17                                    | 2.1                                   | 11.9                                  | 1.9                                   | 5.5                                   | 0.7                                   | 4.8                                   | 0.7                                   | 70                                   | 53                                    | 28        | 2        |
| JPAC345 | 16        | 20      | 4             | 1764        | 334                                   | 787                     | 95                                     | 332                                   | 54                                    | 9.7                                   | 29                                    | 3.8                                   | 18.7                                  | 2.9                                   | 7.5                                   | 0.9                                   | 6.5                                   | 0.9                                   | 82                                   | 49                                    | 28        | 3        |
| JPAC345 | 20        | 24      | 4             | 1644        | 332                                   | 726                     | 87                                     | 301                                   | 45                                    | 8                                     | 27                                    | 3.2                                   | 16.7                                  | 2.7                                   | 7.1                                   | 1                                     | 6.1                                   | 0.9                                   | 81                                   | 48                                    | 26        | 3        |
| JPAC345 | 24        | 28      | 4             | 1416        | 257                                   | 676                     | 71                                     | 258                                   | 40                                    | 7.5                                   | 21                                    | 2.4                                   | 12.9                                  | 1.9                                   | 5.2                                   | 0.7                                   | 4.3                                   | 0.6                                   | 58                                   | 39                                    | 22        | 3        |
| JPAC345 | 28        | 32      | 4             | 826         | 152                                   | 339                     | 44                                     | 165                                   | 28                                    | 5.7                                   | 17                                    | 2.2                                   | 11.3                                  | 1.8                                   | 4.7                                   | 0.6                                   | 3.7                                   | 0.5                                   | 51                                   | 38                                    | 26        | 3        |
| JPAC345 | 32        | 36      | 4             | 1540        | 279                                   | 677                     | 80                                     | 292                                   | 51                                    | 9.9                                   | 29                                    | 3.6                                   | 17.6                                  | 2.8                                   | 7.6                                   | 1.1                                   | 6.3                                   | 0.8                                   | 82                                   | 40                                    | 29        | 4        |
| JPAC345 | 36        | 40      | 4             | 1545        | 222                                   | 622                     | 71                                     | 282                                   | 51                                    | 11.5                                  | 40                                    | 5.2                                   | 28.8                                  | 5.1                                   | 15.1                                  | 2.1                                   | 14.1                                  | 2.4                                   | 173                                  | 32                                    | 19        | 4        |
| JPAC346 | 4         | 8       | 4             | 340         | 64                                    | 158                     | 15                                     | 51                                    | 9                                     | 1.8                                   | 6                                     | 0.9                                   | 5                                     | 0.8                                   | 2.5                                   | 0.4                                   | 2.3                                   | 0.3                                   | 24                                   | 26                                    | 20        | 2        |
| JPAC346 | 8         | 12      | 4             | 1833        | 373                                   | 555                     | 124                                    | 484                                   | 81                                    | 16.3                                  | 50                                    | 5.8                                   | 28.7                                  | 4.1                                   | 9.4                                   | 1                                     | 5.1                                   | 0.7                                   | 95                                   | 47                                    | 36        | 4        |
| JPAC346 | 12        | 16      | 4             | 1473        | 273                                   | 816                     | 64                                     | 206                                   | 31                                    | 5.9                                   | 17                                    | 2.1                                   | 10                                    | 1.5                                   | 3.6                                   | 0.5                                   | 3.2                                   | 0.4                                   | 40                                   | 41                                    | 35        | 6        |
| JPAC346 | 16        | 20      | 4             | 1898        | 384                                   | 779                     | 106                                    | 376                                   | 63                                    | 13.1                                  | 40                                    | 5                                     | 25.6                                  | 3.6                                   | 8.9                                   | 1                                     | 5.3                                   | 0.6                                   | 88                                   | 45                                    | 35        | 5        |
| JPAC346 | 20        | 24      | 4             | 1901        | 204                                   | 1174                    | 68                                     | 257                                   | 45                                    | 9.6                                   | 27                                    | 3.4                                   | 15.7                                  | 2.6                                   | 7.2                                   | 0.9                                   | 6.1                                   | 0.8                                   | 80                                   | 34                                    | 16        | 5        |
| JPAC347 | 8         | 12      | 4             | 821         | 161                                   | 348                     | 44                                     | 160                                   | 26                                    | 5.3                                   | 15                                    | 1.8                                   | 9.4                                   | 1.5                                   | 3.9                                   | 0.5                                   | 2.6                                   | 0.4                                   | 43                                   | 38                                    | 21        | 3        |
| JPAC347 | 12        | 16      | 4             | 1493        | 270                                   | 676                     | 81                                     | 292                                   | 46                                    | 9.1                                   | 27                                    | 3.1                                   | 15.4                                  | 2.4                                   | 5.6                                   | 0.7                                   | 3.6                                   | 0.5                                   | 63                                   | 47                                    | 23        | 2        |
| JPAC347 | 16        | 20      | 4             | 1597        | 306                                   | 644                     | 92                                     | 335                                   | 51                                    | 10.4                                  | 29                                    | 3.5                                   | 18.2                                  | 2.8                                   | 7.4                                   | 0.9                                   | 5                                     | 0.6                                   | 92                                   | 45                                    | 23        | 2        |
| JPAC347 | 20        | 24      | 4             | 1250        | 215                                   | 553                     | 67                                     | 251                                   | 42                                    | 8.7                                   | 25                                    | 2.7                                   | 13                                    | 2.1                                   | 5.4                                   | 0.7                                   | 3.8                                   | 0.5                                   | 61                                   | 38                                    | 20        | 3        |
| JPAC347 | 24        | 28      | 4             | 1478        | 223                                   | 618                     | 69                                     | 274                                   | 49                                    | 10.6                                  | 29                                    | 3.8                                   | 19.9                                  | 3.9                                   | 12.2                                  | 2                                     | 13.4                                  | 2.1                                   | 150                                  | 36                                    | 18        | 5        |
| JPAC347 | 28        | 32      | 4             | 1114        | 179                                   | 437                     | 57                                     | 219                                   | 39                                    | 8.7                                   | 25                                    | 2.9                                   | 15                                    | 2.9                                   | 8.6                                   | 1.3                                   | 8.5                                   | 1.2                                   | 109                                  | 33                                    | 15        | 6        |
| JPAC347 | 32        | 36      | 4             | 1319        | 212                                   | 518                     | 66                                     | 254                                   | 45                                    | 10.2                                  | 32                                    | 4.3                                   | 22                                    | 4                                     | 11.4                                  | 1.8                                   | 11.2                                  | 1.6                                   | 125                                  | 32                                    | 15        | 3        |
| JPAC347 | 36        | 40      | 4             | 1332        | 206                                   | 485                     | 58                                     | 212                                   | 37                                    | 8.7                                   | 33                                    | 5.3                                   | 30.5                                  | 6.1                                   | 17.4                                  | 2.6                                   | 15.7                                  | 2.4                                   | 211                                  | 30                                    | 17        | 3        |
| JPAC347 | 40        | 44      | 4             | 877         | 155                                   | 383                     | 46                                     | 168                                   | 26                                    | 5.4                                   | 16                                    | 2                                     | 10                                    | 1.7                                   | 4.3                                   | 0.6                                   | 3.5                                   | 0.5                                   | 57                                   | 29                                    | 13        | 3        |
| JPAC347 | 44        | 48      | 4             | 912         | 160                                   | 398                     | 49                                     | 176                                   | 29                                    | 5.8                                   | 17                                    | 2                                     | 10.2                                  | 1.8                                   | 4.6                                   | 0.6                                   | 3.7                                   | 0.5                                   | 53                                   | 31                                    | 15        | 3        |
| JPAC347 | 48        | 52      | 4             | 973         | 171                                   | 423                     | 51                                     | 190                                   | 30                                    | 6.1                                   | 18                                    | 2.3                                   | 11.5                                  | 1.9                                   | 4.8                                   | 0.7                                   | 4.2                                   | 0.6                                   | 58                                   | 31                                    | 14        | 4        |
| JPAC347 | 52        | 54      | 2             | 1007        | 175                                   | 437                     | 54                                     | 197                                   | 31                                    | 6.5                                   | 18                                    | 2.4                                   | 11.9                                  | 2.1                                   | 5.4                                   | 0.7                                   | 4.2                                   | 0.5                                   | 61                                   | 28                                    | 14        | 3        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC348 | 4         | 8       | 4             | 441         | 89                                    | 189                     | 20                                     | 70                                    | 11                                    | 2.6                                   | 8                                     | 1.2                                   | 6.3                                   | 1.2                                   | 3.6                                   | 0.4                                   | 2.6                                   | 0.4                                   | 37                                   | 27                                    | 21        | 2        |
| JPAC348 | 8         | 12      | 4             | 1148        | 274                                   | 537                     | 61                                     | 183                                   | 23                                    | 4.6                                   | 12                                    | 1.5                                   | 8.1                                   | 1.3                                   | 3                                     | 0.4                                   | 2.1                                   | 0.3                                   | 37                                   | 45                                    | 25        | 4        |
| JPAC348 | 12        | 16      | 4             | 1452        | 287                                   | 717                     | 79                                     | 254                                   | 31                                    | 6.5                                   | 17                                    | 2                                     | 9.8                                   | 1.5                                   | 3.6                                   | 0.5                                   | 2.5                                   | 0.4                                   | 41                                   | 44                                    | 29        | 3        |
| JPAC348 | 16        | 20      | 4             | 1993        | 371                                   | 959                     | 113                                    | 376                                   | 50                                    | 10.2                                  | 27                                    | 3.3                                   | 16.4                                  | 2.4                                   | 5.4                                   | 0.6                                   | 3.7                                   | 0.5                                   | 56                                   | 48                                    | 36        | 4        |
| JPAC348 | 20        | 24      | 4             | 2252        | 396                                   | 1070                    | 115                                    | 406                                   | 66                                    | 13                                    | 40                                    | 5.1                                   | 24.6                                  | 3.9                                   | 9.3                                   | 1                                     | 5.3                                   | 0.7                                   | 97                                   | 46                                    | 29        | 3        |
| JPAC348 | 24        | 28      | 4             | 913         | 166                                   | 434                     | 43                                     | 151                                   | 24                                    | 5.2                                   | 14                                    | 1.9                                   | 8.9                                   | 1.7                                   | 5.2                                   | 0.6                                   | 3.6                                   | 0.5                                   | 54                                   | 40                                    | 15        | 3        |
| JPAC348 | 28        | 32      | 4             | 1821        | 265                                   | 945                     | 88                                     | 336                                   | 56                                    | 10.5                                  | 27                                    | 3.1                                   | 14.3                                  | 2.2                                   | 6                                     | 0.9                                   | 5.7                                   | 0.9                                   | 61                                   | 32                                    | 20        | 4        |
| JPAC348 | 32        | 36      | 4             | 2147        | 276                                   | 749                     | 93                                     | 365                                   | 70                                    | 16.3                                  | 59                                    | 8.6                                   | 51.4                                  | 10.1                                  | 30.9                                  | 4.8                                   | 31.3                                  | 4.9                                   | 377                                  | 30                                    | 20        | 5        |
| JPAC348 | 36        | 40      | 4             | 1812        | 227                                   | 590                     | 79                                     | 306                                   | 58                                    | 14.2                                  | 55                                    | 8.3                                   | 48.9                                  | 9.9                                   | 29.4                                  | 4.3                                   | 28                                    | 4.3                                   | 350                                  | 29                                    | 21        | 4        |
| JPAC348 | 40        | 44      | 4             | 1090        | 172                                   | 468                     | 56                                     | 211                                   | 35                                    | 7.4                                   | 23                                    | 2.9                                   | 14.9                                  | 2.7                                   | 7                                     | 1                                     | 5.5                                   | 0.9                                   | 84                                   | 28                                    | 18        | 3        |
| JPAC348 | 44        | 46      | 2             | 1051        | 189                                   | 467                     | 53                                     | 191                                   | 29                                    | 6.3                                   | 19                                    | 2.5                                   | 13                                    | 2.2                                   | 5.8                                   | 0.8                                   | 4.9                                   | 0.7                                   | 67                                   | 25                                    | 17        | 3        |
| JPAC349 | 4         | 8       | 4             | 212         | 52                                    | 80                      | 10                                     | 34                                    | 6                                     | 1                                     | 4                                     | 0.5                                   | 2.9                                   | 0.6                                   | 1.6                                   | 0.2                                   | 1.6                                   | 0.3                                   | 17                                   | 24                                    | 20        | 2        |
| JPAC349 | 8         | 12      | 4             | 1689        | 353                                   | 708                     | 91                                     | 336                                   | 49                                    | 10.7                                  | 30                                    | 3.5                                   | 17.7                                  | 2.8                                   | 6.9                                   | 0.8                                   | 5.1                                   | 0.7                                   | 75                                   | 44                                    | 21        | 3        |
| JPAC349 | 12        | 16      | 4             | 1005        | 171                                   | 443                     | 46                                     | 183                                   | 29                                    | 7.8                                   | 20                                    | 2.5                                   | 13.6                                  | 2.3                                   | 6.1                                   | 0.8                                   | 5                                     | 0.7                                   | 75                                   | 45                                    | 16        | 3        |
| JPAC349 | 16        | 20      | 4             | 590         | 111                                   | 269                     | 25                                     | 93                                    | 16                                    | 4                                     | 12                                    | 1.6                                   | 8.3                                   | 1.4                                   | 3.7                                   | 0.5                                   | 3.5                                   | 0.5                                   | 41                                   | 40                                    | 16        | 2        |
| JPAC349 | 20        | 24      | 4             | 746         | 169                                   | 344                     | 37                                     | 120                                   | 17                                    | 4.6                                   | 9                                     | 1.2                                   | 6.1                                   | 1                                     | 3.1                                   | 0.5                                   | 3.1                                   | 0.5                                   | 32                                   | 38                                    | 23        | 3        |
| JPAC349 | 24        | 28      | 4             | 1028        | 212                                   | 446                     | 55                                     | 198                                   | 28                                    | 7.4                                   | 15                                    | 1.9                                   | 9.1                                   | 1.5                                   | 4.2                                   | 0.5                                   | 4                                     | 0.6                                   | 46                                   | 38                                    | 19        | 4        |
| JPAC349 | 28        | 32      | 4             | 662         | 114                                   | 242                     | 31                                     | 124                                   | 22                                    | 5.9                                   | 17                                    | 2.3                                   | 13                                    | 2.3                                   | 6.6                                   | 0.9                                   | 5.7                                   | 0.9                                   | 75                                   | 30                                    | 13        | 3        |
| JPAC349 | 32        | 36      | 4             | 1104        | 188                                   | 456                     | 56                                     | 212                                   | 38                                    | 7.2                                   | 23                                    | 3                                     | 15.8                                  | 2.8                                   | 7.2                                   | 1                                     | 5.8                                   | 0.8                                   | 88                                   | 27                                    | 18        | 4        |
| JPAC350 | 4         | 8       | 4             | 390         | 82                                    | 159                     | 20                                     | 67                                    | 10                                    | 1.9                                   | 7                                     | 1                                     | 5.6                                   | 1                                     | 2.7                                   | 0.4                                   | 2.3                                   | 0.3                                   | 30                                   | 27                                    | 22        | 2        |
| JPAC350 | 8         | 12      | 4             | 1692        | 335                                   | 764                     | 97                                     | 328                                   | 44                                    | 8.2                                   | 25                                    | 2.8                                   | 13.3                                  | 2                                     | 5.1                                   | 0.5                                   | 3                                     | 0.4                                   | 64                                   | 49                                    | 28        | 3        |
| JPAC350 | 12        | 16      | 4             | 1724        | 315                                   | 776                     | 94                                     | 339                                   | 52                                    | 10.1                                  | 31                                    | 3.7                                   | 17.1                                  | 2.7                                   | 6.4                                   | 0.7                                   | 3.8                                   | 0.5                                   | 71                                   | 47                                    | 30        | 3        |
| JPAC350 | 16        | 20      | 4             | 1329        | 233                                   | 570                     | 71                                     | 254                                   | 38                                    | 7.9                                   | 25                                    | 3.2                                   | 16.2                                  | 2.6                                   | 6.9                                   | 0.8                                   | 4.5                                   | 0.6                                   | 97                                   | 44                                    | 30        | 4        |
| JPAC350 | 20        | 24      | 4             | 1891        | 323                                   | 812                     | 110                                    | 399                                   | 60                                    | 12.4                                  | 37                                    | 4.3                                   | 21.1                                  | 3.5                                   | 7.9                                   | 0.9                                   | 5.6                                   | 0.7                                   | 95                                   | 42                                    | 30        | 6        |
| JPAC350 | 24        | 28      | 4             | 1500        | 205                                   | 515                     | 75                                     | 327                                   | 61                                    | 13.3                                  | 48                                    | 5.9                                   | 30.9                                  | 5.3                                   | 14.9                                  | 2.1                                   | 13.6                                  | 2                                     | 183                                  | 32                                    | 23        | 8        |
| JPAC350 | 28        | 32      | 4             | 1018        | 159                                   | 398                     | 52                                     | 197                                   | 34                                    | 7.3                                   | 26                                    | 3.3                                   | 16.8                                  | 3                                     | 8                                     | 1                                     | 6.3                                   | 0.8                                   | 106                                  | 28                                    | 15        | 3        |
| JPAC350 | 32        | 34      | 2             | 849         | 145                                   | 337                     | 46                                     | 173                                   | 27                                    | 5.8                                   | 20                                    | 2.5                                   | 12.5                                  | 2                                     | 5.4                                   | 0.7                                   | 4.4                                   | 0.6                                   | 68                                   | 26                                    | 15        | 2        |
| JPAC351 | 4         | 8       | 4             | 387         | 64                                    | 196                     | 16                                     | 53                                    | 9                                     | 1.8                                   | 6                                     | 0.9                                   | 5.3                                   | 1                                     | 2.9                                   | 0.3                                   | 2.4                                   | 0.4                                   | 28                                   | 27                                    | 21        | 2        |
| JPAC351 | 8         | 12      | 4             | 1791        | 303                                   | 927                     | 75                                     | 264                                   | 41                                    | 8.8                                   | 31                                    | 3.7                                   | 18.4                                  | 3.1                                   | 7.6                                   | 0.9                                   | 4.6                                   | 0.5                                   | 103                                  | 46                                    | 26        | 3        |
| JPAC351 | 12        | 16      | 4             | 2133        | 365                                   | 1153                    | 93                                     | 330                                   | 48                                    | 8.9                                   | 27                                    | 3.2                                   | 15.7                                  | 2.5                                   | 6.1                                   | 0.7                                   | 3.5                                   | 0.4                                   | 76                                   | 54                                    | 34        | 3        |
| JPAC351 | 16        | 20      | 4             | 1655        | 326                                   | 787                     | 84                                     | 290                                   | 44                                    | 8.2                                   | 25                                    | 2.9                                   | 13.8                                  | 2.2                                   | 5.2                                   | 0.6                                   | 3.1                                   | 0.4                                   | 62                                   | 47                                    | 32        | 3        |
| JPAC351 | 20        | 24      | 4             | 1760        | 338                                   | 755                     | 90                                     | 325                                   | 51                                    | 10.4                                  | 34                                    | 4.1                                   | 20.7                                  | 3.5                                   | 8.5                                   | 0.9                                   | 5.2                                   | 0.6                                   | 114                                  | 47                                    | 27        | 3        |
| JPAC351 | 24        | 28      | 4             | 1924        | 332                                   | 875                     | 94                                     | 331                                   | 52                                    | 9.8                                   | 37                                    | 4.7                                   | 25.5                                  | 4.2                                   | 11.2                                  | 1.3                                   | 7.2                                   | 0.9                                   | 140                                  | 47                                    | 39        | 3        |
| JPAC351 | 28        | 32      | 4             | 1494        | 259                                   | 681                     | 74                                     | 268                                   | 41                                    | 7.8                                   | 27                                    | 3.2                                   | 17.6                                  | 3                                     | 7.9                                   | 1                                     | 7                                     | 0.9                                   | 96                                   | 42                                    | 28        | 3        |
| JPAC351 | 32        | 36      | 4             | 1524        | 249                                   | 614                     | 75                                     | 285                                   | 45                                    | 9.3                                   | 34                                    | 4.3                                   | 23.1                                  | 4.2                                   | 12.1                                  | 1.6                                   | 9.8                                   | 1.5                                   | 157                                  | 36                                    | 24        | 5        |
| JPAC351 | 36        | 40      | 4             | 1453        | 240                                   | 602                     | 71                                     | 257                                   | 40                                    | 7.7                                   | 28                                    | 3.3                                   | 19.2                                  | 3.6                                   | 11.2                                  | 1.7                                   | 10.9                                  | 1.7                                   | 157                                  | 35                                    | 29        | 6        |
| JPAC352 | 4         | 8       | 4             | 315         | 68                                    | 127                     | 16                                     | 54                                    | 9                                     | 1.6                                   | 6                                     | 0.8                                   | 4.3                                   | 0.8                                   | 2.2                                   | 0.3                                   | 2.1                                   | 0.3                                   | 25                                   | 26                                    | 21        | 2        |
| JPAC352 | 8         | 12      | 4             | 1352        | 303                                   | 649                     | 60                                     | 197                                   | 29                                    | 6.4                                   | 20                                    | 2.2                                   | 11.5                                  | 1.9                                   | 4.8                                   | 0.6                                   | 3.3                                   | 0.5                                   | 64                                   | 43                                    | 28        | 3        |
| JPAC352 | 12        | 16      | 4             | 1919        | 405                                   | 999                     | 88                                     | 269                                   | 33                                    | 7.6                                   | 20                                    | 2.4                                   | 11.7                                  | 2                                     | 5.5                                   | 0.7                                   | 3.8                                   | 0.5                                   | 72                                   | 49                                    | 26        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC352 | 16        | 20      | 4             | 1203        | 252                                   | 556                     | 69                                     | 216                                   | 29                                    | 4.9                                   | 15                                    | 1.9                                   | 9                                     | 1.4                                   | 3.5                                   | 0.4                                   | 2.6                                   | 0.4                                   | 42                                   | 48                                    | 33        | 3        |
| JPAC352 | 20        | 24      | 4             | 707         | 195                                   | 316                     | 39                                     | 115                                   | 13                                    | 2.3                                   | 7                                     | 0.7                                   | 3.3                                   | 0.5                                   | 1.3                                   | 0.1                                   | 1                                     | 0.2                                   | 14                                   | 42                                    | 41        | 2        |
| JPAC352 | 24        | 28      | 4             | 609         | 164                                   | 276                     | 30                                     | 92                                    | 12                                    | 2.9                                   | 8                                     | 0.9                                   | 3.8                                   | 0.6                                   | 1.6                                   | 0.2                                   | 1                                     | 0.1                                   | 17                                   | 27                                    | 34        | 1        |
| JPAC352 | 28        | 32      | 4             | 852         | 212                                   | 396                     | 43                                     | 135                                   | 15                                    | 3.6                                   | 7                                     | 0.9                                   | 4.5                                   | 0.8                                   | 2.1                                   | 0.3                                   | 1.7                                   | 0.2                                   | 31                                   | 29                                    | 36        | 2        |
| JPAC352 | 32        | 36      | 4             | 1660        | 264                                   | 853                     | 80                                     | 296                                   | 44                                    | 8.7                                   | 25                                    | 2.9                                   | 13.9                                  | 2.1                                   | 5.3                                   | 0.7                                   | 4.1                                   | 0.4                                   | 61                                   | 37                                    | 25        | 3        |
| JPAC352 | 36        | 40      | 4             | 1711        | 273                                   | 787                     | 85                                     | 329                                   | 52                                    | 11                                    | 35                                    | 4.1                                   | 20.1                                  | 3.1                                   | 7.9                                   | 1                                     | 6.8                                   | 0.8                                   | 97                                   | 38                                    | 35        | 4        |
| JPAC352 | 40        | 44      | 4             | 1395        | 258                                   | 586                     | 69                                     | 246                                   | 39                                    | 7.8                                   | 30                                    | 3.9                                   | 20.7                                  | 3.5                                   | 9.6                                   | 1.3                                   | 8.6                                   | 1.2                                   | 112                                  | 36                                    | 34        | 4        |
| JPAC352 | 44        | 47      | 3             | 1169        | 208                                   | 459                     | 52                                     | 195                                   | 29                                    | 6.1                                   | 23                                    | 2.9                                   | 16.9                                  | 3.5                                   | 10.8                                  | 1.6                                   | 10.3                                  | 1.7                                   | 149                                  | 35                                    | 27        | 4        |
| JPAC353 | 4         | 8       | 4             | 468         | 90                                    | 206                     | 22                                     | 78                                    | 11                                    | 2.5                                   | 8                                     | 1.2                                   | 5.9                                   | 1.1                                   | 3.3                                   | 0.4                                   | 3                                     | 0.4                                   | 36                                   | 30                                    | 23        | 2        |
| JPAC353 | 8         | 12      | 4             | 1121        | 243                                   | 522                     | 56                                     | 193                                   | 27                                    | 5.7                                   | 15                                    | 1.8                                   | 8.7                                   | 1.4                                   | 3.5                                   | 0.4                                   | 2.3                                   | 0.2                                   | 42                                   | 47                                    | 27        | 3        |
| JPAC353 | 12        | 16      | 4             | 1978        | 419                                   | 958                     | 95                                     | 323                                   | 43                                    | 9.6                                   | 27                                    | 3.1                                   | 14.7                                  | 2.5                                   | 5.6                                   | 0.6                                   | 3.2                                   | 0.5                                   | 74                                   | 48                                    | 30        | 2        |
| JPAC353 | 16        | 20      | 4             | 1518        | 312                                   | 660                     | 81                                     | 308                                   | 46                                    | 10.1                                  | 26                                    | 3                                     | 14.1                                  | 2.1                                   | 4.3                                   | 0.5                                   | 3.1                                   | 0.4                                   | 49                                   | 47                                    | 29        | 2        |
| JPAC353 | 20        | 24      | 4             | 2364        | 428                                   | 1160                    | 122                                    | 446                                   | 63                                    | 13.1                                  | 38                                    | 4.6                                   | 20.3                                  | 2.9                                   | 6.3                                   | 0.7                                   | 4                                     | 0.6                                   | 56                                   | 41                                    | 43        | 3        |
| JPAC353 | 24        | 28      | 4             | 1049        | 208                                   | 502                     | 53                                     | 189                                   | 25                                    | 4.9                                   | 14                                    | 1.6                                   | 7.7                                   | 1.3                                   | 3.4                                   | 0.4                                   | 2.7                                   | 0.4                                   | 35                                   | 36                                    | 35        | 3        |
| JPAC353 | 28        | 32      | 4             | 678         | 137                                   | 314                     | 37                                     | 127                                   | 16                                    | 4.1                                   | 8                                     | 1                                     | 4.6                                   | 0.8                                   | 1.9                                   | 0.3                                   | 1.9                                   | 0.3                                   | 24                                   | 31                                    | 13        | 2        |
| JPAC353 | 32        | 36      | 4             | 1114        | 228                                   | 437                     | 53                                     | 221                                   | 37                                    | 10.2                                  | 25                                    | 2.9                                   | 13                                    | 2.1                                   | 5.8                                   | 0.9                                   | 5.4                                   | 0.9                                   | 73                                   | 30                                    | 29        | 2        |
| JPAC353 | 36        | 39      | 3             | 1301        | 260                                   | 513                     | 56                                     | 206                                   | 35                                    | 9.5                                   | 30                                    | 4.1                                   | 21                                    | 3.9                                   | 11.1                                  | 1.6                                   | 9.4                                   | 1.5                                   | 140                                  | 30                                    | 37        | 8        |
| JPAC354 | 8         | 12      | 4             | 436         | 108                                   | 189                     | 21                                     | 70                                    | 9                                     | 1.9                                   | 6                                     | 0.8                                   | 3.6                                   | 0.7                                   | 1.7                                   | 0.3                                   | 1.5                                   | 0.3                                   | 23                                   | 33                                    | 27        | 2        |
| JPAC354 | 12        | 16      | 4             | 412         | 103                                   | 192                     | 19                                     | 65                                    | 8                                     | 1.6                                   | 5                                     | 0.6                                   | 2.6                                   | 0.4                                   | 1.2                                   | 0.1                                   | 0.9                                   | 0.2                                   | 14                                   | 38                                    | 29        | 1        |
| JPAC354 | 16        | 20      | 4             | 467         | 104                                   | 229                     | 20                                     | 67                                    | 10                                    | 2.1                                   | 7                                     | 0.8                                   | 4.1                                   | 0.7                                   | 1.9                                   | 0.2                                   | 1.2                                   | 0.2                                   | 21                                   | 40                                    | 34        | 1        |
| JPAC354 | 20        | 24      | 4             | 316         | 81                                    | 150                     | 14                                     | 41                                    | 5                                     | 1.1                                   | 3                                     | 0.5                                   | 2.2                                   | 0.5                                   | 1.3                                   | 0.2                                   | 1.2                                   | 0.1                                   | 15                                   | 31                                    | 31        | 1        |
| JPAC354 | 24        | 28      | 4             | 427         | 98                                    | 194                     | 19                                     | 63                                    | 9                                     | 1.7                                   | 6                                     | 0.8                                   | 4.2                                   | 0.8                                   | 2.1                                   | 0.3                                   | 1.9                                   | 0.3                                   | 26                                   | 24                                    | 27        | 1        |
| JPAC354 | 28        | 29      | 1             | 500         | 121                                   | 216                     | 23                                     | 75                                    | 11                                    | 2.2                                   | 8                                     | 1                                     | 5.7                                   | 1.1                                   | 2.7                                   | 0.4                                   | 2.4                                   | 0.4                                   | 31                                   | 30                                    | 34        | 2        |
| JPAC355 | 12        | 16      | 4             | 134         | 44                                    | 42                      | 6                                      | 23                                    | 3                                     | 0.6                                   | 2                                     | 0.3                                   | 1.5                                   | 0.3                                   | 0.8                                   | 0.1                                   | 0.8                                   | 0.1                                   | 10                                   | 57                                    | 24        | 2        |
| JPAC355 | 16        | 20      | 4             | 487         | 143                                   | 172                     | 27                                     | 91                                    | 13                                    | 2.6                                   | 8                                     | 1                                     | 4.8                                   | 0.8                                   | 1.8                                   | 0.3                                   | 1.2                                   | 0.2                                   | 22                                   | 63                                    | 37        | 2        |
| JPAC355 | 20        | 24      | 4             | 533         | 152                                   | 232                     | 28                                     | 87                                    | 10                                    | 2.5                                   | 6                                     | 0.6                                   | 2.9                                   | 0.4                                   | 1                                     | 0.1                                   | 0.7                                   | 0.1                                   | 11                                   | 40                                    | 35        | 1        |
| JPAC355 | 24        | 28      | 4             | 607         | 160                                   | 279                     | 29                                     | 93                                    | 11                                    | 2.8                                   | 7                                     | 0.9                                   | 4                                     | 0.7                                   | 1.6                                   | 0.2                                   | 1                                     | 0.2                                   | 18                                   | 34                                    | 43        | 2        |
| JPAC355 | 28        | 32      | 4             | 617         | 147                                   | 253                     | 29                                     | 107                                   | 16                                    | 3.7                                   | 9                                     | 1.3                                   | 6.5                                   | 1.2                                   | 3.1                                   | 0.4                                   | 2.4                                   | 0.3                                   | 38                                   | 35                                    | 39        | 1        |
| JPAC355 | 32        | 36      | 4             | 522         | 118                                   | 240                     | 24                                     | 77                                    | 11                                    | 2.7                                   | 7                                     | 1                                     | 4.8                                   | 1                                     | 2.5                                   | 0.3                                   | 2                                     | 0.4                                   | 31                                   | 33                                    | 34        | 1        |
| JPAC355 | 36        | 40      | 4             | 1500        | 233                                   | 738                     | 65                                     | 265                                   | 42                                    | 9.1                                   | 28                                    | 3.5                                   | 16.5                                  | 2.8                                   | 7.1                                   | 1                                     | 5.7                                   | 0.8                                   | 83                                   | 33                                    | 32        | 2        |
| JPAC355 | 40        | 41      | 1             | 660         | 118                                   | 334                     | 26                                     | 98                                    | 15                                    | 4                                     | 11                                    | 1.4                                   | 7.3                                   | 1.3                                   | 3.5                                   | 0.5                                   | 3.3                                   | 0.5                                   | 37                                   | 23                                    | 32        | 1        |
| JPAC356 | 16        | 20      | 4             | 148         | 43                                    | 61                      | 6                                      | 20                                    | 3                                     | 0.7                                   | 2                                     | 0.3                                   | 1.8                                   | 0.3                                   | 0.9                                   | 0.2                                   | 1.2                                   | 0.2                                   | 9                                    | 53                                    | 28        | 4        |
| JPAC356 | 20        | 24      | 4             | 1533        | 345                                   | 587                     | 88                                     | 323                                   | 45                                    | 9.9                                   | 27                                    | 3.3                                   | 15.6                                  | 2.6                                   | 6                                     | 0.7                                   | 4                                     | 0.5                                   | 75                                   | 49                                    | 35        | 4        |
| JPAC356 | 24        | 28      | 4             | 1143        | 335                                   | 490                     | 54                                     | 174                                   | 22                                    | 4.8                                   | 13                                    | 1.7                                   | 7.9                                   | 1.2                                   | 2.9                                   | 0.4                                   | 2                                     | 0.3                                   | 33                                   | 53                                    | 31        | 3        |
| JPAC356 | 28        | 32      | 4             | 1849        | 419                                   | 855                     | 88                                     | 304                                   | 42                                    | 9.4                                   | 25                                    | 2.9                                   | 13.9                                  | 2.4                                   | 6.1                                   | 0.8                                   | 4.5                                   | 0.5                                   | 75                                   | 52                                    | 42        | 4        |
| JPAC356 | 32        | 36      | 4             | 1440        | 299                                   | 620                     | 78                                     | 283                                   | 41                                    | 9                                     | 23                                    | 2.8                                   | 13.2                                  | 2.1                                   | 4.7                                   | 0.6                                   | 2.8                                   | 0.4                                   | 60                                   | 44                                    | 29        | 6        |
| JPAC356 | 36        | 40      | 4             | 1685        | 325                                   | 719                     | 91                                     | 338                                   | 49                                    | 11.6                                  | 30                                    | 3.9                                   | 18.3                                  | 3                                     | 7                                     | 0.9                                   | 4.7                                   | 0.6                                   | 83                                   | 46                                    | 31        | 6        |
| JPAC356 | 40        | 44      | 4             | 2638        | 474                                   | 980                     | 144                                    | 591                                   | 93                                    | 20.6                                  | 54                                    | 6.7                                   | 33.1                                  | 6.1                                   | 16.7                                  | 2.5                                   | 16.8                                  | 2.8                                   | 198                                  | 36                                    | 39        | 6        |
| JPAC356 | 44        | 48      | 4             | 1815        | 307                                   | 667                     | 88                                     | 350                                   | 60                                    | 13.2                                  | 47                                    | 5.2                                   | 28.2                                  | 5.8                                   | 17.2                                  | 2.7                                   | 18.3                                  | 2.8                                   | 204                                  | 35                                    | 38        | 5        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC356 | 48        | 52      | 4             | 1385        | 227                                   | 569                     | 71                                     | 272                                   | 49                                    | 9.5                                   | 33                                    | 3.6                                   | 18.7                                  | 3.3                                   | 9.1                                   | 1.1                                   | 7.2                                   | 1                                     | 113                                  | 36                                    | 18        | 4        |
| JPAC356 | 52        | 56      | 4             | 1608        | 312                                   | 701                     | 82                                     | 288                                   | 48                                    | 9.5                                   | 29                                    | 3.5                                   | 15.8                                  | 3.1                                   | 8.1                                   | 1.1                                   | 6.9                                   | 1.1                                   | 100                                  | 38                                    | 31        | 4        |
| JPAC356 | 56        | 60      | 4             | 1365        | 312                                   | 626                     | 67                                     | 223                                   | 32                                    | 6.8                                   | 18                                    | 2                                     | 9.6                                   | 1.6                                   | 4.2                                   | 0.6                                   | 3.5                                   | 0.5                                   | 58                                   | 33                                    | 42        | 4        |
| JPAC356 | 60        | 64      | 4             | 1594        | 352                                   | 724                     | 79                                     | 271                                   | 41                                    | 7.9                                   | 24                                    | 2.6                                   | 12.1                                  | 2.1                                   | 5.8                                   | 0.7                                   | 4.7                                   | 0.6                                   | 68                                   | 35                                    | 38        | 3        |
| JPAC356 | 64        | 68      | 4             | 1421        | 319                                   | 667                     | 70                                     | 237                                   | 33                                    | 6.8                                   | 19                                    | 2                                     | 9.2                                   | 1.5                                   | 4.1                                   | 0.6                                   | 3.1                                   | 0.4                                   | 50                                   | 31                                    | 34        | 3        |
| JPAC356 | 68        | 72      | 4             | 1393        | 320                                   | 639                     | 68                                     | 243                                   | 32                                    | 6.8                                   | 18                                    | 2                                     | 9.7                                   | 1.6                                   | 3.6                                   | 0.5                                   | 2.7                                   | 0.4                                   | 46                                   | 28                                    | 32        | 3        |
| JPAC357 | 12        | 16      | 4             | 313         | 92                                    | 117                     | 15                                     | 48                                    | 8                                     | 1.6                                   | 5                                     | 0.6                                   | 3.5                                   | 0.6                                   | 1.6                                   | 0.3                                   | 1.7                                   | 0.3                                   | 18                                   | 55                                    | 23        | 4        |
| JPAC357 | 16        | 20      | 4             | 1152        | 301                                   | 522                     | 55                                     | 179                                   | 24                                    | 4.7                                   | 13                                    | 1.7                                   | 8.2                                   | 1.4                                   | 3.2                                   | 0.5                                   | 2.4                                   | 0.4                                   | 36                                   | 72                                    | 28        | 3        |
| JPAC357 | 20        | 24      | 4             | 517         | 148                                   | 192                     | 28                                     | 98                                    | 13                                    | 2.6                                   | 8                                     | 0.9                                   | 4.4                                   | 0.7                                   | 1.6                                   | 0.2                                   | 1.2                                   | 0.1                                   | 19                                   | 46                                    | 31        | 2        |
| JPAC357 | 24        | 28      | 4             | 359         | 105                                   | 177                     | 15                                     | 45                                    | 5                                     | 1.4                                   | 2                                     | 0.2                                   | 1.2                                   | 0.3                                   | 0.4                                   | 0.1                                   | 0.5                                   | 0.1                                   | 6                                    | 30                                    | 27        | 1        |
| JPAC357 | 28        | 32      | 4             | 860         | 191                                   | 452                     | 38                                     | 121                                   | 16                                    | 3.4                                   | 9                                     | 1                                     | 5.1                                   | 0.8                                   | 1.8                                   | 0.2                                   | 1.2                                   | 0.2                                   | 21                                   | 30                                    | 35        | 1        |
| JPAC357 | 32        | 36      | 4             | 1385        | 296                                   | 679                     | 66                                     | 225                                   | 31                                    | 6.1                                   | 17                                    | 2                                     | 10                                    | 1.6                                   | 3.7                                   | 0.5                                   | 3                                     | 0.4                                   | 44                                   | 40                                    | 37        | 2        |
| JPAC357 | 36        | 40      | 4             | 868         | 179                                   | 397                     | 39                                     | 135                                   | 19                                    | 4.6                                   | 13                                    | 1.8                                   | 9.7                                   | 1.8                                   | 5                                     | 0.7                                   | 4.9                                   | 0.9                                   | 56                                   | 27                                    | 28        | 1        |
| JPAC357 | 40        | 44      | 4             | 619         | 124                                   | 296                     | 28                                     | 102                                   | 15                                    | 3                                     | 9                                     | 1.2                                   | 5.4                                   | 1                                     | 2.4                                   | 0.4                                   | 2.5                                   | 0.4                                   | 29                                   | 22                                    | 12        | 1        |
| JPAC358 | 20        | 24      | 4             | 812         | 214                                   | 386                     | 35                                     | 113                                   | 16                                    | 3.3                                   | 9                                     | 1.2                                   | 5.6                                   | 0.9                                   | 2.3                                   | 0.2                                   | 1.4                                   | 0.2                                   | 24                                   | 50                                    | 43        | 2        |
| JPAC358 | 24        | 28      | 4             | 509         | 165                                   | 187                     | 27                                     | 88                                    | 11                                    | 2.7                                   | 5                                     | 0.6                                   | 3                                     | 0.5                                   | 1.4                                   | 0.2                                   | 1.1                                   | 0.2                                   | 16                                   | 39                                    | 27        | 1        |
| JPAC358 | 28        | 32      | 4             | 614         | 208                                   | 166                     | 40                                     | 132                                   | 19                                    | 3.9                                   | 10                                    | 1.2                                   | 6                                     | 0.8                                   | 2                                     | 0.2                                   | 1.5                                   | 0.2                                   | 24                                   | 47                                    | 35        | 2        |
| JPAC358 | 32        | 36      | 4             | 1111        | 337                                   | 330                     | 70                                     | 241                                   | 35                                    | 6.3                                   | 21                                    | 2.5                                   | 12.3                                  | 1.8                                   | 4                                     | 0.4                                   | 2.2                                   | 0.3                                   | 46                                   | 49                                    | 33        | 3        |
| JPAC358 | 36        | 40      | 4             | 1240        | 280                                   | 529                     | 65                                     | 229                                   | 37                                    | 6.1                                   | 21                                    | 2.4                                   | 12.3                                  | 1.9                                   | 4.4                                   | 0.5                                   | 3                                     | 0.4                                   | 49                                   | 44                                    | 25        | 5        |
| JPAC358 | 40        | 44      | 4             | 2696        | 426                                   | 1413                    | 122                                    | 464                                   | 75                                    | 14                                    | 43                                    | 5.2                                   | 24.9                                  | 3.8                                   | 8                                     | 1                                     | 5.6                                   | 0.8                                   | 91                                   | 38                                    | 24        | 5        |
| JPAC358 | 44        | 48      | 4             | 1734        | 270                                   | 846                     | 79                                     | 311                                   | 52                                    | 10                                    | 34                                    | 4                                     | 20.3                                  | 3.2                                   | 7.9                                   | 1                                     | 6.5                                   | 0.9                                   | 88                                   | 37                                    | 22        | 4        |
| JPAC358 | 48        | 52      | 4             | 1460        | 245                                   | 663                     | 71                                     | 279                                   | 46                                    | 9.1                                   | 29                                    | 3.5                                   | 16.6                                  | 2.7                                   | 6.8                                   | 0.9                                   | 6.5                                   | 0.9                                   | 79                                   | 35                                    | 19        | 5        |
| JPAC358 | 52        | 56      | 4             | 1277        | 207                                   | 516                     | 62                                     | 252                                   | 42                                    | 9                                     | 29                                    | 3.7                                   | 19.6                                  | 3.4                                   | 9.1                                   | 1.2                                   | 7.4                                   | 1.2                                   | 115                                  | 30                                    | 13        | 4        |
| JPAC358 | 56        | 60      | 4             | 1321        | 250                                   | 572                     | 66                                     | 255                                   | 41                                    | 8                                     | 24                                    | 3.1                                   | 15.1                                  | 2.6                                   | 5.9                                   | 0.8                                   | 4.5                                   | 0.7                                   | 72                                   | 31                                    | 23        | 4        |
| JPAC358 | 60        | 63      | 3             | 1084        | 189                                   | 459                     | 56                                     | 216                                   | 36                                    | 7.4                                   | 23                                    | 2.8                                   | 14.3                                  | 2.2                                   | 5.8                                   | 0.8                                   | 4.3                                   | 0.7                                   | 68                                   | 29                                    | 16        | 3        |
| JPAC359 | 24        | 28      | 4             | 1441        | 341                                   | 684                     | 66                                     | 227                                   | 34                                    | 6.9                                   | 20                                    | 2.4                                   | 11.9                                  | 1.8                                   | 3.6                                   | 0.5                                   | 2.4                                   | 0.3                                   | 40                                   | 50                                    | 38        | 2        |
| JPAC359 | 28        | 32      | 4             | 1916        | 375                                   | 891                     | 96                                     | 350                                   | 56                                    | 10.1                                  | 31                                    | 3.8                                   | 18.2                                  | 2.8                                   | 5.9                                   | 0.7                                   | 3.3                                   | 0.4                                   | 72                                   | 51                                    | 27        | 4        |
| JPAC359 | 32        | 36      | 4             | 3494        | 537                                   | 1953                    | 144                                    | 540                                   | 87                                    | 16.7                                  | 53                                    | 6.6                                   | 32.3                                  | 4.8                                   | 10.1                                  | 1.2                                   | 5.7                                   | 0.6                                   | 103                                  | 39                                    | 23        | 3        |
| JPAC359 | 36        | 40      | 4             | 1657        | 278                                   | 844                     | 77                                     | 290                                   | 45                                    | 9                                     | 28                                    | 3.4                                   | 15.8                                  | 2.4                                   | 5                                     | 0.6                                   | 3.4                                   | 0.5                                   | 55                                   | 41                                    | 23        | 4        |
| JPAC359 | 40        | 44      | 4             | 1843        | 251                                   | 914                     | 87                                     | 360                                   | 63                                    | 12                                    | 36                                    | 4.3                                   | 20                                    | 3                                     | 7                                     | 0.9                                   | 6.2                                   | 0.8                                   | 79                                   | 36                                    | 27        | 6        |
| JPAC359 | 44        | 48      | 4             | 1538        | 222                                   | 717                     | 72                                     | 285                                   | 50                                    | 10.4                                  | 31                                    | 4.1                                   | 21.1                                  | 3.6                                   | 9.7                                   | 1.3                                   | 8.8                                   | 1.5                                   | 101                                  | 39                                    | 23        | 4        |
| JPAC359 | 48        | 52      | 4             | 1151        | 198                                   | 477                     | 58                                     | 221                                   | 36                                    | 7.6                                   | 24                                    | 3.1                                   | 14.9                                  | 2.8                                   | 7.6                                   | 1.1                                   | 6.4                                   | 1.1                                   | 94                                   | 32                                    | 20        | 3        |
| JPAC360 | 28        | 32      | 4             | 690         | 247                                   | 223                     | 39                                     | 118                                   | 16                                    | 3.4                                   | 9                                     | 1.1                                   | 4.9                                   | 0.9                                   | 2.2                                   | 0.3                                   | 2.1                                   | 0.3                                   | 22                                   | 52                                    | 42        | 4        |
| JPAC360 | 32        | 36      | 4             | 2239        | 550                                   | 892                     | 123                                    | 418                                   | 62                                    | 13.4                                  | 40                                    | 4.9                                   | 22                                    | 3.6                                   | 8.3                                   | 1                                     | 5.2                                   | 0.6                                   | 95                                   | 73                                    | 47        | 5        |
| JPAC360 | 36        | 39      | 3             | 1610        | 305                                   | 791                     | 80                                     | 274                                   | 43                                    | 9                                     | 26                                    | 3                                     | 14.1                                  | 2.2                                   | 4.7                                   | 0.6                                   | 2.9                                   | 0.3                                   | 55                                   | 41                                    | 27        | 4        |
| JPAC361 | 28        | 32      | 4             | 339         | 106                                   | 143                     | 16                                     | 45                                    | 6                                     | 1.4                                   | 4                                     | 0.6                                   | 2.4                                   | 0.5                                   | 1.2                                   | 0.2                                   | 1.4                                   | 0.2                                   | 13                                   | 62                                    | 54        | 4        |
| JPAC361 | 32        | 36      | 4             | 1265        | 352                                   | 434                     | 75                                     | 252                                   | 37                                    | 8                                     | 23                                    | 2.9                                   | 12.7                                  | 2.1                                   | 5.1                                   | 0.6                                   | 3.6                                   | 0.5                                   | 57                                   | 60                                    | 49        | 3        |
| JPAC361 | 36        | 40      | 4             | 1537        | 405                                   | 523                     | 93                                     | 308                                   | 47                                    | 10.8                                  | 31                                    | 3.9                                   | 17.6                                  | 2.8                                   | 6.7                                   | 0.8                                   | 4.3                                   | 0.6                                   | 84                                   | 72                                    | 42        | 4        |
| JPAC361 | 40        | 44      | 4             | 1734        | 312                                   | 768                     | 93                                     | 344                                   | 53                                    | 11.6                                  | 34                                    | 4                                     | 19.2                                  | 3.1                                   | 7.3                                   | 0.9                                   | 4.3                                   | 0.5                                   | 80                                   | 51                                    | 27        | 3        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC361 | 44        | 48      | 4             | 1827        | 307                                   | 856                     | 89                                     | 332                                   | 53                                    | 10.5                                  | 33                                    | 4.2                                   | 21.1                                  | 3.7                                   | 9.2                                   | 1.3                                   | 7.5                                   | 1                                     | 98                                   | 44                                    | 35        | 5        |
| JPAC361 | 48        | 52      | 4             | 684         | 135                                   | 289                     | 34                                     | 123                                   | 19                                    | 4.6                                   | 12                                    | 1.4                                   | 6.9                                   | 1.4                                   | 4                                     | 0.6                                   | 4.2                                   | 0.7                                   | 49                                   | 30                                    | 18        | 2        |
| JPAC361 | 52        | 56      | 4             | 1245        | 213                                   | 537                     | 64                                     | 246                                   | 42                                    | 8.8                                   | 26                                    | 3.1                                   | 14.7                                  | 2.6                                   | 6.6                                   | 1                                     | 5.7                                   | 0.9                                   | 75                                   | 33                                    | 24        | 5        |
| JPAC361 | 56        | 57      | 1             | 1782        | 244                                   | 779                     | 93                                     | 376                                   | 71                                    | 15.6                                  | 41                                    | 5.1                                   | 24.1                                  | 3.9                                   | 9.5                                   | 1.3                                   | 7.5                                   | 1.1                                   | 110                                  | 29                                    | 22        | 5        |
| JPAC362 | 24        | 28      | 4             | 564         | 97                                    | 354                     | 18                                     | 56                                    | 9                                     | 2                                     | 5                                     | 0.7                                   | 4.1                                   | 0.7                                   | 1.6                                   | 0.3                                   | 1.5                                   | 0.2                                   | 15                                   | 67                                    | 46        | 8        |
| JPAC362 | 28        | 32      | 4             | 1241        | 262                                   | 537                     | 72                                     | 259                                   | 40                                    | 7.1                                   | 18                                    | 2                                     | 9.4                                   | 1.3                                   | 2.8                                   | 0.3                                   | 2.5                                   | 0.3                                   | 29                                   | 58                                    | 38        | 5        |
| JPAC362 | 32        | 36      | 4             | 2036        | 457                                   | 753                     | 132                                    | 472                                   | 74                                    | 13.6                                  | 36                                    | 4                                     | 18                                    | 2.5                                   | 5.7                                   | 0.7                                   | 3.8                                   | 0.4                                   | 64                                   | 55                                    | 37        | 4        |
| JPAC362 | 36        | 40      | 4             | 1470        | 375                                   | 499                     | 94                                     | 310                                   | 49                                    | 10.2                                  | 28                                    | 3.6                                   | 17                                    | 2.6                                   | 6.2                                   | 0.8                                   | 4.1                                   | 0.5                                   | 71                                   | 60                                    | 39        | 5        |
| JPAC362 | 40        | 44      | 4             | 1853        | 442                                   | 655                     | 124                                    | 409                                   | 56                                    | 10.7                                  | 31                                    | 3.7                                   | 18                                    | 3                                     | 7                                     | 0.8                                   | 4.3                                   | 0.5                                   | 89                                   | 49                                    | 24        | 3        |
| JPAC362 | 44        | 48      | 4             | 2529        | 437                                   | 1067                    | 149                                    | 575                                   | 91                                    | 17.3                                  | 47                                    | 5.1                                   | 24.2                                  | 3.7                                   | 8                                     | 1                                     | 5.6                                   | 0.8                                   | 97                                   | 51                                    | 31        | 5        |
| JPAC362 | 48        | 52      | 4             | 2832        | 468                                   | 1201                    | 158                                    | 614                                   | 103                                   | 20.1                                  | 60                                    | 7.1                                   | 34.4                                  | 5.4                                   | 12.7                                  | 1.7                                   | 9.4                                   | 1.3                                   | 137                                  | 48                                    | 29        | 6        |
| JPAC362 | 52        | 56      | 4             | 1700        | 274                                   | 737                     | 88                                     | 344                                   | 59                                    | 11.7                                  | 36                                    | 4.4                                   | 21.6                                  | 3.6                                   | 9.1                                   | 1.3                                   | 7.8                                   | 1.2                                   | 102                                  | 54                                    | 30        | 6        |
| JPAC362 | 56        | 60      | 4             | 1991        | 358                                   | 778                     | 114                                    | 441                                   | 75                                    | 15.2                                  | 44                                    | 5.2                                   | 25.5                                  | 4.1                                   | 10                                    | 1.5                                   | 9.2                                   | 1.3                                   | 110                                  | 43                                    | 25        | 6        |
| JPAC362 | 60        | 64      | 4             | 1329        | 220                                   | 552                     | 69                                     | 264                                   | 46                                    | 9.4                                   | 29                                    | 3.6                                   | 18.7                                  | 3.3                                   | 8.4                                   | 1.3                                   | 7.7                                   | 1.2                                   | 96                                   | 34                                    | 26        | 5        |
| JPAC362 | 64        | 68      | 4             | 1421        | 247                                   | 601                     | 75                                     | 285                                   | 48                                    | 9.9                                   | 30                                    | 3.6                                   | 19.1                                  | 3                                     | 7.5                                   | 1                                     | 6                                     | 0.9                                   | 85                                   | 36                                    | 27        | 4        |
| JPAC363 | 24        | 28      | 4             | 405         | 123                                   | 176                     | 19                                     | 54                                    | 8                                     | 1.5                                   | 5                                     | 0.6                                   | 3                                     | 0.5                                   | 1.5                                   | 0.2                                   | 1.4                                   | 0.2                                   | 13                                   | 61                                    | 36        | 5        |
| JPAC363 | 28        | 32      | 4             | 1400        | 339                                   | 534                     | 84                                     | 288                                   | 44                                    | 8.8                                   | 25                                    | 2.9                                   | 13.6                                  | 2.1                                   | 4.5                                   | 0.6                                   | 3.4                                   | 0.5                                   | 50                                   | 50                                    | 32        | 5        |
| JPAC363 | 32        | 36      | 4             | 1620        | 341                                   | 579                     | 106                                    | 388                                   | 58                                    | 11.3                                  | 32                                    | 3.8                                   | 17.6                                  | 2.8                                   | 6.1                                   | 0.7                                   | 3.9                                   | 0.4                                   | 70                                   | 63                                    | 47        | 5        |
| JPAC363 | 36        | 40      | 4             | 2179        | 430                                   | 872                     | 130                                    | 476                                   | 76                                    | 14.8                                  | 42                                    | 4.9                                   | 23.6                                  | 3.5                                   | 7.2                                   | 0.9                                   | 4.3                                   | 0.5                                   | 93                                   | 60                                    | 34        | 5        |
| JPAC363 | 40        | 44      | 4             | 1766        | 324                                   | 779                     | 98                                     | 357                                   | 55                                    | 10.8                                  | 31                                    | 3.8                                   | 18.7                                  | 2.6                                   | 6                                     | 0.6                                   | 3.6                                   | 0.4                                   | 77                                   | 49                                    | 25        | 5        |
| JPAC363 | 44        | 48      | 4             | 1189        | 231                                   | 463                     | 69                                     | 258                                   | 41                                    | 8.3                                   | 25                                    | 3                                     | 14.4                                  | 2.2                                   | 5.4                                   | 0.6                                   | 3.6                                   | 0.4                                   | 64                                   | 41                                    | 27        | 5        |
| JPAC364 | 4         | 8       | 4             | 314         | 52                                    | 162                     | 13                                     | 44                                    | 8                                     | 1.5                                   | 5                                     | 0.7                                   | 4.3                                   | 0.8                                   | 2.2                                   | 0.3                                   | 1.9                                   | 0.3                                   | 20                                   | 24                                    | 22        | 2        |
| JPAC364 | 8         | 12      | 4             | 1958        | 364                                   | 889                     | 109                                    | 393                                   | 60                                    | 12.2                                  | 34                                    | 4                                     | 18.8                                  | 2.7                                   | 5.6                                   | 0.7                                   | 3.3                                   | 0.4                                   | 61                                   | 50                                    | 32        | 4        |
| JPAC364 | 12        | 16      | 4             | 3310        | 543                                   | 1456                    | 189                                    | 723                                   | 125                                   | 24                                    | 69                                    | 8.2                                   | 37.8                                  | 5.3                                   | 10.5                                  | 1.2                                   | 5.8                                   | 0.5                                   | 113                                  | 57                                    | 42        | 4        |
| JPAC364 | 16        | 20      | 4             | 2306        | 349                                   | 980                     | 136                                    | 500                                   | 88                                    | 19.1                                  | 57                                    | 7                                     | 34.7                                  | 5.5                                   | 10.9                                  | 1.1                                   | 5.3                                   | 0.6                                   | 113                                  | 42                                    | 32        | 3        |
| JPAC364 | 20        | 24      | 4             | 2234        | 347                                   | 961                     | 129                                    | 469                                   | 75                                    | 17.4                                  | 55                                    | 6.7                                   | 33.4                                  | 5.2                                   | 11.3                                  | 1.3                                   | 6.3                                   | 0.6                                   | 117                                  | 41                                    | 35        | 3        |
| JPAC364 | 24        | 28      | 4             | 2122        | 358                                   | 905                     | 119                                    | 443                                   | 72                                    | 14                                    | 44                                    | 5.3                                   | 26.3                                  | 4                                     | 9.3                                   | 1.1                                   | 6.1                                   | 0.7                                   | 115                                  | 43                                    | 35        | 3        |
| JPAC364 | 28        | 32      | 4             | 2364        | 365                                   | 1018                    | 130                                    | 498                                   | 74                                    | 16.8                                  | 54                                    | 6.8                                   | 33.2                                  | 5                                     | 12.2                                  | 1.6                                   | 9.7                                   | 1.3                                   | 139                                  | 47                                    | 33        | 4        |
| JPAC364 | 32        | 36      | 4             | 1248        | 174                                   | 479                     | 67                                     | 280                                   | 46                                    | 9.5                                   | 29                                    | 3.6                                   | 21.2                                  | 4.1                                   | 10.9                                  | 1.5                                   | 8.7                                   | 1                                     | 115                                  | 24                                    | 16        | 3        |
| JPAC364 | 36        | 40      | 4             | 1309        | 202                                   | 515                     | 69                                     | 280                                   | 49                                    | 10.3                                  | 29                                    | 3.6                                   | 19.2                                  | 3.4                                   | 9                                     | 1.2                                   | 7.9                                   | 1.1                                   | 109                                  | 33                                    | 21        | 5        |
| JPAC364 | 40        | 44      | 4             | 1885        | 351                                   | 818                     | 94                                     | 357                                   | 60                                    | 13.3                                  | 41                                    | 5                                     | 24.1                                  | 3.8                                   | 8.9                                   | 1.1                                   | 6                                     | 0.8                                   | 102                                  | 47                                    | 26        | 7        |
| JPAC364 | 44        | 48      | 4             | 2103        | 323                                   | 903                     | 107                                    | 409                                   | 69                                    | 14.5                                  | 46                                    | 6.2                                   | 33.9                                  | 5.6                                   | 13.9                                  | 1.8                                   | 10.1                                  | 1.3                                   | 160                                  | 47                                    | 31        | 7        |
| JPAC364 | 48        | 52      | 4             | 1996        | 289                                   | 841                     | 103                                    | 402                                   | 69                                    | 14.4                                  | 45                                    | 5.9                                   | 32.6                                  | 5.8                                   | 14.4                                  | 1.9                                   | 11                                    | 1.4                                   | 159                                  | 46                                    | 31        | 6        |
| JPAC364 | 52        | 56      | 4             | 2070        | 321                                   | 868                     | 103                                    | 384                                   | 62                                    | 13.5                                  | 45                                    | 5.8                                   | 32.6                                  | 6.3                                   | 16.2                                  | 2.4                                   | 14.9                                  | 2.2                                   | 194                                  | 38                                    | 30        | 5        |
| JPAC364 | 56        | 60      | 4             | 1364        | 214                                   | 532                     | 67                                     | 264                                   | 47                                    | 10.6                                  | 33                                    | 4.4                                   | 23.3                                  | 4.2                                   | 11.3                                  | 1.9                                   | 11.3                                  | 2                                     | 140                                  | 32                                    | 19        | 4        |
| JPAC364 | 60        | 63      | 3             | 1003        | 178                                   | 392                     | 50                                     | 199                                   | 33                                    | 7                                     | 23                                    | 2.8                                   | 13.3                                  | 2.5                                   | 7.2                                   | 0.9                                   | 5.6                                   | 0.8                                   | 88                                   | 25                                    | 15        | 4        |
| JPAC365 | 36        | 40      | 4             | 1142        | 335                                   | 451                     | 60                                     | 191                                   | 26                                    | 4.9                                   | 16                                    | 1.7                                   | 8.6                                   | 1.4                                   | 3.5                                   | 0.5                                   | 3.4                                   | 0.4                                   | 40                                   | 36                                    | 29        | 4        |
| JPAC365 | 40        | 44      | 4             | 1022        | 232                                   | 463                     | 50                                     | 176                                   | 24                                    | 4.6                                   | 16                                    | 2                                     | 8.7                                   | 1.5                                   | 3.5                                   | 0.4                                   | 2.5                                   | 0.3                                   | 38                                   | 35                                    | 24        | 2        |
| JPAC365 | 44        | 48      | 4             | 1022        | 222                                   | 480                     | 49                                     | 179                                   | 25                                    | 4.9                                   | 14                                    | 1.6                                   | 7.2                                   | 1                                     | 2.7                                   | 0.4                                   | 2.6                                   | 0.3                                   | 33                                   | 35                                    | 20        | 3        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC365 | 48        | 52      | 4             | 1608        | 297                                   | 681                     | 83                                     | 338                                   | 51                                    | 10.5                                  | 33                                    | 3.6                                   | 17                                    | 2.7                                   | 6.9                                   | 0.9                                   | 5.5                                   | 0.6                                   | 78                                   | 30                                    | 20        | 4        |
| JPAC365 | 52        | 56      | 4             | 1285        | 253                                   | 521                     | 64                                     | 247                                   | 39                                    | 7.2                                   | 26                                    | 3.2                                   | 15.2                                  | 3                                     | 7.6                                   | 1                                     | 6.3                                   | 0.9                                   | 91                                   | 29                                    | 21        | 4        |
| JPAC365 | 56        | 60      | 4             | 1069        | 212                                   | 439                     | 54                                     | 206                                   | 31                                    | 6.4                                   | 22                                    | 2.6                                   | 12.5                                  | 2.3                                   | 6.3                                   | 0.8                                   | 4.8                                   | 0.6                                   | 69                                   | 29                                    | 18        | 4        |
| JPAC365 | 60        | 64      | 4             | 1049        | 192                                   | 425                     | 55                                     | 212                                   | 37                                    | 6.4                                   | 24                                    | 2.7                                   | 12.5                                  | 2.3                                   | 5.9                                   | 0.8                                   | 4.6                                   | 0.6                                   | 68                                   | 31                                    | 15        | 6        |
| JPAC365 | 64        | 68      | 4             | 232         | 59                                    | 97                      | 10                                     | 39                                    | 6                                     | 2.4                                   | 3                                     | 0.4                                   | 2.1                                   | 0.3                                   | 1.1                                   | 0.1                                   | 0.9                                   | 0.2                                   | 11                                   | 28                                    | 7         | 2        |
| JPAC366 | 28        | 32      | 4             | 400         | 121                                   | 138                     | 22                                     | 74                                    | 10                                    | 2.4                                   | 7                                     | 0.7                                   | 3.3                                   | 0.6                                   | 1.7                                   | 0.2                                   | 1.5                                   | 0.3                                   | 18                                   | 48                                    | 40        | 2        |
| JPAC366 | 32        | 36      | 4             | 2412        | 623                                   | 1017                    | 127                                    | 437                                   | 54                                    | 11.4                                  | 33                                    | 3.6                                   | 16                                    | 2.7                                   | 6.4                                   | 0.8                                   | 4.7                                   | 0.6                                   | 75                                   | 60                                    | 55        | 3        |
| JPAC366 | 36        | 40      | 4             | 1859        | 498                                   | 700                     | 101                                    | 362                                   | 50                                    | 10                                    | 31                                    | 3.4                                   | 14.8                                  | 2.6                                   | 6.2                                   | 0.8                                   | 4.2                                   | 0.5                                   | 75                                   | 47                                    | 39        | 3        |
| JPAC366 | 40        | 44      | 4             | 1706        | 371                                   | 679                     | 96                                     | 356                                   | 54                                    | 10.9                                  | 33                                    | 3.9                                   | 17.7                                  | 2.7                                   | 6.8                                   | 0.8                                   | 4.3                                   | 0.5                                   | 70                                   | 40                                    | 25        | 3        |
| JPAC366 | 44        | 48      | 4             | 1967        | 391                                   | 891                     | 96                                     | 356                                   | 57                                    | 11.8                                  | 35                                    | 3.9                                   | 18.4                                  | 3.2                                   | 8.2                                   | 1                                     | 6.3                                   | 0.8                                   | 90                                   | 42                                    | 34        | 4        |
| JPAC366 | 48        | 52      | 4             | 1609        | 328                                   | 779                     | 68                                     | 248                                   | 35                                    | 7.4                                   | 23                                    | 2.7                                   | 12.6                                  | 2.3                                   | 6.8                                   | 0.9                                   | 6.3                                   | 1                                     | 87                                   | 41                                    | 42        | 3        |
| JPAC366 | 52        | 56      | 4             | 1997        | 504                                   | 905                     | 98                                     | 327                                   | 43                                    | 8.4                                   | 23                                    | 2.5                                   | 11.2                                  | 2                                     | 5.7                                   | 0.7                                   | 5.1                                   | 0.8                                   | 61                                   | 37                                    | 41        | 3        |
| JPAC366 | 56        | 60      | 4             | 1824        | 475                                   | 715                     | 102                                    | 366                                   | 45                                    | 9.2                                   | 25                                    | 2.7                                   | 12.4                                  | 2                                     | 5.5                                   | 0.7                                   | 4.6                                   | 0.6                                   | 60                                   | 33                                    | 38        | 3        |
| JPAC366 | 60        | 64      | 4             | 1797        | 400                                   | 765                     | 90                                     | 332                                   | 42                                    | 9.1                                   | 30                                    | 3.4                                   | 16                                    | 2.8                                   | 7.7                                   | 1                                     | 6.5                                   | 0.8                                   | 91                                   | 32                                    | 36        | 3        |
| JPAC366 | 64        | 65      | 1             | 1198        | 280                                   | 522                     | 57                                     | 210                                   | 29                                    | 5.8                                   | 17                                    | 1.9                                   | 8.7                                   | 1.8                                   | 4.8                                   | 0.6                                   | 3.8                                   | 0.6                                   | 55                                   | 27                                    | 32        | 4        |
| JPAC367 | 24        | 28      | 4             | 1135        | 319                                   | 316                     | 75                                     | 248                                   | 35                                    | 12.6                                  | 20                                    | 2.5                                   | 12.5                                  | 2.3                                   | 6.1                                   | 0.9                                   | 5.2                                   | 0.6                                   | 81                                   | 48                                    | 24        | 2        |
| JPAC367 | 28        | 32      | 4             | 579         | 121                                   | 239                     | 27                                     | 99                                    | 16                                    | 6.3                                   | 10                                    | 1.4                                   | 6.5                                   | 1.4                                   | 3.6                                   | 0.5                                   | 3.2                                   | 0.5                                   | 43                                   | 56                                    | 17        | 2        |
| JPAC367 | 32        | 36      | 4             | 354         | 79                                    | 163                     | 16                                     | 51                                    | 8                                     | 2.6                                   | 6                                     | 0.7                                   | 3.6                                   | 0.7                                   | 1.7                                   | 0.2                                   | 1.2                                   | 0.2                                   | 21                                   | 51                                    | 23        | 3        |
| JPAC367 | 36        | 40      | 4             | 510         | 112                                   | 212                     | 28                                     | 94                                    | 14                                    | 3.9                                   | 9                                     | 1.1                                   | 5.2                                   | 0.9                                   | 2                                     | 0.3                                   | 1.6                                   | 0.2                                   | 26                                   | 52                                    | 26        | 3        |
| JPAC367 | 40        | 44      | 4             | 1058        | 161                                   | 513                     | 47                                     | 178                                   | 27                                    | 8.2                                   | 18                                    | 2.4                                   | 11.9                                  | 2.4                                   | 6.5                                   | 0.9                                   | 5.7                                   | 0.8                                   | 76                                   | 40                                    | 16        | 3        |
| JPAC367 | 44        | 48      | 4             | 1437        | 201                                   | 677                     | 65                                     | 267                                   | 47                                    | 11.4                                  | 31                                    | 3.8                                   | 18.1                                  | 3.3                                   | 8.3                                   | 1.2                                   | 8.3                                   | 1.5                                   | 94                                   | 35                                    | 24        | 6        |
| JPAC367 | 48        | 50      | 2             | 699         | 91                                    | 319                     | 29                                     | 122                                   | 24                                    | 6.6                                   | 18                                    | 2.5                                   | 11.3                                  | 2.2                                   | 5.7                                   | 0.7                                   | 4.7                                   | 0.7                                   | 61                                   | 29                                    | 13        | 4        |
| JPAC368 | 8         | 12      | 4             | 577         | 111                                   | 263                     | 30                                     | 104                                   | 16                                    | 3.4                                   | 10                                    | 1.2                                   | 5.4                                   | 1                                     | 2.4                                   | 0.3                                   | 1.9                                   | 0.3                                   | 27                                   | 28                                    | 18        | 2        |
| JPAC368 | 12        | 16      | 4             | 1657        | 289                                   | 787                     | 84                                     | 295                                   | 44                                    | 9.7                                   | 28                                    | 3.6                                   | 16                                    | 2.7                                   | 6.6                                   | 0.9                                   | 4.7                                   | 0.6                                   | 86                                   | 44                                    | 25        | 2        |
| JPAC368 | 16        | 20      | 4             | 1803        | 365                                   | 817                     | 100                                    | 332                                   | 48                                    | 9.7                                   | 28                                    | 3.3                                   | 15.6                                  | 2.4                                   | 5.8                                   | 0.6                                   | 3.5                                   | 0.4                                   | 72                                   | 44                                    | 25        | 2        |
| JPAC368 | 20        | 24      | 4             | 2151        | 449                                   | 958                     | 125                                    | 409                                   | 58                                    | 11.3                                  | 31                                    | 3.9                                   | 17.6                                  | 2.8                                   | 6.3                                   | 0.7                                   | 4                                     | 0.5                                   | 74                                   | 47                                    | 38        | 4        |
| JPAC368 | 24        | 28      | 4             | 1960        | 452                                   | 845                     | 107                                    | 370                                   | 48                                    | 8.5                                   | 27                                    | 3.1                                   | 14.5                                  | 2.3                                   | 6.2                                   | 0.8                                   | 4.4                                   | 0.5                                   | 71                                   | 44                                    | 45        | 6        |
| JPAC368 | 28        | 32      | 4             | 1353        | 305                                   | 563                     | 72                                     | 255                                   | 38                                    | 7.7                                   | 24                                    | 2.7                                   | 12.4                                  | 2.3                                   | 5.1                                   | 0.6                                   | 3.9                                   | 0.4                                   | 61                                   | 41                                    | 32        | 6        |
| JPAC368 | 32        | 36      | 4             | 1697        | 342                                   | 685                     | 98                                     | 357                                   | 53                                    | 11.2                                  | 33                                    | 3.6                                   | 17.2                                  | 2.8                                   | 7                                     | 0.9                                   | 4.8                                   | 0.6                                   | 81                                   | 45                                    | 25        | 6        |
| JPAC368 | 36        | 40      | 4             | 1765        | 312                                   | 698                     | 92                                     | 388                                   | 68                                    | 14.6                                  | 43                                    | 5.4                                   | 23.3                                  | 3.8                                   | 9.3                                   | 1.1                                   | 7.1                                   | 1                                     | 100                                  | 46                                    | 31        | 7        |
| JPAC368 | 40        | 44      | 4             | 1617        | 278                                   | 630                     | 76                                     | 322                                   | 55                                    | 12                                    | 42                                    | 5.1                                   | 23.6                                  | 4.6                                   | 12.4                                  | 1.6                                   | 9                                     | 1.1                                   | 145                                  | 47                                    | 25        | 6        |
| JPAC368 | 44        | 48      | 4             | 2491        | 434                                   | 884                     | 124                                    | 518                                   | 88                                    | 19.3                                  | 74                                    | 9.2                                   | 45.3                                  | 8.2                                   | 22                                    | 3                                     | 17.3                                  | 1.9                                   | 243                                  | 47                                    | 28        | 7        |
| JPAC368 | 48        | 52      | 4             | 2375        | 342                                   | 840                     | 119                                    | 532                                   | 104                                   | 22.4                                  | 81                                    | 9.9                                   | 45.1                                  | 8.2                                   | 21.4                                  | 2.8                                   | 18.7                                  | 2.4                                   | 227                                  | 41                                    | 25        | 8        |
| JPAC368 | 52        | 54      | 2             | 1391        | 228                                   | 517                     | 65                                     | 250                                   | 43                                    | 9.9                                   | 38                                    | 5                                     | 25.6                                  | 5.2                                   | 14.8                                  | 2.1                                   | 14.6                                  | 2.2                                   | 172                                  | 36                                    | 22        | 5        |
| JPAC370 | 20        | 24      | 4             | 811         | 226                                   | 306                     | 41                                     | 145                                   | 21                                    | 3.9                                   | 13                                    | 1.6                                   | 7.3                                   | 1.3                                   | 3.6                                   | 0.4                                   | 2.7                                   | 0.3                                   | 39                                   | 58                                    | 36        | 2        |
| JPAC370 | 24        | 28      | 4             | 1037        | 312                                   | 425                     | 51                                     | 165                                   | 20                                    | 4.4                                   | 12                                    | 1.3                                   | 6.2                                   | 1.1                                   | 2.9                                   | 0.4                                   | 2.2                                   | 0.3                                   | 34                                   | 53                                    | 36        | 2        |
| JPAC370 | 28        | 32      | 4             | 482         | 133                                   | 193                     | 26                                     | 86                                    | 12                                    | 2.4                                   | 7                                     | 0.7                                   | 3.6                                   | 0.6                                   | 1.4                                   | 0.2                                   | 1.2                                   | 0.1                                   | 17                                   | 40                                    | 25        | 2        |
| JPAC370 | 32        | 36      | 4             | 1085        | 223                                   | 511                     | 55                                     | 196                                   | 27                                    | 5.1                                   | 16                                    | 1.7                                   | 8                                     | 1.3                                   | 3.2                                   | 0.4                                   | 2.7                                   | 0.3                                   | 36                                   | 43                                    | 32        | 2        |
| JPAC370 | 36        | 40      | 4             | 693         | 158                                   | 328                     | 34                                     | 115                                   | 15                                    | 3.8                                   | 10                                    | 1                                     | 5.1                                   | 0.7                                   | 1.6                                   | 0.2                                   | 1.6                                   | 0.2                                   | 19                                   | 50                                    | 23        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC370 | 40        | 44      | 4             | 788         | 177                                   | 370                     | 38                                     | 124                                   | 15                                    | 4.9                                   | 9                                     | 1.1                                   | 5.6                                   | 1.1                                   | 2.8                                   | 0.4                                   | 2.7                                   | 0.3                                   | 37                                   | 48                                    | 22        | 2        |
| JPAC370 | 44        | 48      | 4             | 837         | 143                                   | 414                     | 40                                     | 164                                   | 22                                    | 6.3                                   | 11                                    | 1.1                                   | 5.1                                   | 0.8                                   | 2.5                                   | 0.4                                   | 2.4                                   | 0.4                                   | 26                                   | 43                                    | 17        | 2        |
| JPAC370 | 48        | 52      | 4             | 1106        | 265                                   | 507                     | 45                                     | 152                                   | 21                                    | 6.6                                   | 18                                    | 2                                     | 10.7                                  | 1.9                                   | 5.1                                   | 0.7                                   | 4.4                                   | 0.7                                   | 66                                   | 38                                    | 31        | 2        |
| JPAC370 | 52        | 56      | 4             | 1341        | 226                                   | 574                     | 69                                     | 250                                   | 42                                    | 9                                     | 29                                    | 3.6                                   | 18.2                                  | 3.3                                   | 8.5                                   | 1.2                                   | 6.8                                   | 1.2                                   | 101                                  | 39                                    | 22        | 4        |
| JPAC370 | 56        | 59      | 3             | 934         | 155                                   | 386                     | 45                                     | 171                                   | 27                                    | 6.6                                   | 20                                    | 2.7                                   | 13.3                                  | 2.6                                   | 6.7                                   | 1.1                                   | 6.3                                   | 1                                     | 91                                   | 33                                    | 16        | 3        |
| JPAC371 | 8         | 12      | 4             | 314         | 74                                    | 131                     | 15                                     | 49                                    | 8                                     | 1.7                                   | 5                                     | 0.7                                   | 3.9                                   | 0.8                                   | 1.8                                   | 0.2                                   | 1.5                                   | 0.2                                   | 21                                   | 31                                    | 24        | 2        |
| JPAC371 | 12        | 16      | 4             | 1052        | 280                                   | 432                     | 52                                     | 180                                   | 25                                    | 5.2                                   | 15                                    | 1.7                                   | 8.7                                   | 1.4                                   | 3.8                                   | 0.5                                   | 2.8                                   | 0.4                                   | 45                                   | 60                                    | 36        | 2        |
| JPAC371 | 16        | 20      | 4             | 1752        | 332                                   | 823                     | 85                                     | 316                                   | 49                                    | 9.7                                   | 27                                    | 3.3                                   | 16.3                                  | 2.6                                   | 6.7                                   | 0.8                                   | 4.1                                   | 0.5                                   | 77                                   | 56                                    | 32        | 2        |
| JPAC371 | 20        | 24      | 4             | 1742        | 345                                   | 814                     | 92                                     | 322                                   | 46                                    | 9.2                                   | 26                                    | 3                                     | 14.3                                  | 2.2                                   | 4.9                                   | 0.5                                   | 2.7                                   | 0.3                                   | 61                                   | 44                                    | 26        | 2        |
| JPAC371 | 24        | 28      | 4             | 1894        | 434                                   | 861                     | 105                                    | 338                                   | 43                                    | 8.9                                   | 26                                    | 2.9                                   | 13.7                                  | 1.9                                   | 4                                     | 0.5                                   | 2.8                                   | 0.4                                   | 52                                   | 47                                    | 28        | 4        |
| JPAC371 | 28        | 32      | 4             | 2229        | 449                                   | 946                     | 123                                    | 442                                   | 66                                    | 14                                    | 43                                    | 4.7                                   | 24.3                                  | 3.6                                   | 8.7                                   | 1                                     | 5.3                                   | 0.6                                   | 99                                   | 45                                    | 26        | 5        |
| JPAC371 | 32        | 36      | 4             | 2081        | 386                                   | 860                     | 110                                    | 415                                   | 61                                    | 13.3                                  | 40                                    | 4.8                                   | 24.6                                  | 4.3                                   | 10.5                                  | 1.5                                   | 8.5                                   | 0.9                                   | 142                                  | 44                                    | 24        | 6        |
| JPAC371 | 36        | 40      | 4             | 1780        | 318                                   | 795                     | 94                                     | 355                                   | 52                                    | 11.2                                  | 33                                    | 3.8                                   | 18.7                                  | 3                                     | 7.1                                   | 0.9                                   | 5.6                                   | 0.6                                   | 84                                   | 43                                    | 24        | 6        |
| JPAC371 | 40        | 44      | 4             | 1597        | 272                                   | 749                     | 73                                     | 276                                   | 45                                    | 10.2                                  | 33                                    | 3.7                                   | 19.1                                  | 3.1                                   | 8.4                                   | 1.1                                   | 7                                     | 0.9                                   | 96                                   | 47                                    | 28        | 5        |
| JPAC371 | 44        | 48      | 4             | 1343        | 217                                   | 644                     | 63                                     | 243                                   | 38                                    | 7.9                                   | 23                                    | 2.6                                   | 14.6                                  | 2.4                                   | 6.7                                   | 0.9                                   | 5.9                                   | 0.9                                   | 74                                   | 41                                    | 18        | 3        |
| JPAC371 | 48        | 52      | 4             | 1767        | 318                                   | 747                     | 96                                     | 379                                   | 58                                    | 12.6                                  | 35                                    | 4.1                                   | 20                                    | 3                                     | 7.7                                   | 0.9                                   | 5.9                                   | 0.8                                   | 79                                   | 40                                    | 23        | 4        |
| JPAC371 | 52        | 56      | 4             | 1409        | 254                                   | 580                     | 76                                     | 302                                   | 49                                    | 10.6                                  | 31                                    | 3.5                                   | 17.7                                  | 2.6                                   | 6                                     | 0.8                                   | 4.7                                   | 0.7                                   | 70                                   | 38                                    | 16        | 3        |
| JPAC371 | 56        | 60      | 4             | 1269        | 225                                   | 545                     | 66                                     | 261                                   | 40                                    | 9                                     | 27                                    | 3.2                                   | 15.7                                  | 2.4                                   | 5.9                                   | 0.7                                   | 4.5                                   | 0.6                                   | 64                                   | 37                                    | 17        | 4        |
| JPAC371 | 60        | 64      | 4             | 1179        | 220                                   | 511                     | 61                                     | 236                                   | 38                                    | 7.4                                   | 22                                    | 2.7                                   | 13                                    | 2.1                                   | 5.2                                   | 0.7                                   | 3.7                                   | 0.5                                   | 55                                   | 34                                    | 17        | 4        |
| JPAC371 | 64        | 66      | 2             | 1225        | 226                                   | 525                     | 61                                     | 239                                   | 38                                    | 8                                     | 24                                    | 2.9                                   | 14.5                                  | 2.5                                   | 6.5                                   | 0.8                                   | 4.7                                   | 0.8                                   | 72                                   | 32                                    | 19        | 4        |
| JPAC372 | 8         | 12      | 4             | 367         | 84                                    | 152                     | 18                                     | 63                                    | 9                                     | 2.2                                   | 6                                     | 0.8                                   | 3.8                                   | 0.7                                   | 1.8                                   | 0.3                                   | 1.5                                   | 0.3                                   | 25                                   | 36                                    | 15        | 2        |
| JPAC372 | 12        | 16      | 4             | 797         | 124                                   | 447                     | 31                                     | 106                                   | 17                                    | 5.6                                   | 11                                    | 1.4                                   | 7.3                                   | 1.3                                   | 3.6                                   | 0.4                                   | 2.8                                   | 0.3                                   | 40                                   | 47                                    | 15        | 2        |
| JPAC372 | 16        | 20      | 4             | 633         | 114                                   | 279                     | 28                                     | 107                                   | 19                                    | 6.2                                   | 13                                    | 1.8                                   | 8.5                                   | 1.5                                   | 4.2                                   | 0.6                                   | 3.3                                   | 0.5                                   | 47                                   | 35                                    | 18        | 2        |
| JPAC372 | 20        | 24      | 4             | 419         | 118                                   | 162                     | 24                                     | 73                                    | 10                                    | 3.5                                   | 6                                     | 0.7                                   | 3.2                                   | 0.5                                   | 1.4                                   | 0.2                                   | 1.2                                   | 0.2                                   | 16                                   | 42                                    | 16        | 2        |
| JPAC372 | 24        | 28      | 4             | 165         | 43                                    | 78                      | 7                                      | 21                                    | 4                                     | 1.7                                   | 2                                     | 0.3                                   | 1.4                                   | 0.3                                   | 0.7                                   | 0.1                                   | 0.6                                   | 0.1                                   | 6                                    | 41                                    | 14        | 2        |
| JPAC372 | 28        | 32      | 4             | 358         | 91                                    | 188                     | 13                                     | 43                                    | 5                                     | 2.2                                   | 3                                     | 0.4                                   | 2                                     | 0.3                                   | 1.1                                   | 0.2                                   | 1                                     | 0.2                                   | 9                                    | 46                                    | 19        | 2        |
| JPAC372 | 32        | 36      | 4             | 2048        | 441                                   | 903                     | 111                                    | 394                                   | 50                                    | 12.4                                  | 31                                    | 3.5                                   | 16.9                                  | 2.6                                   | 6.5                                   | 0.8                                   | 4.1                                   | 0.5                                   | 71                                   | 45                                    | 25        | 5        |
| JPAC372 | 36        | 40      | 4             | 1330        | 233                                   | 611                     | 72                                     | 271                                   | 42                                    | 8.6                                   | 23                                    | 2.6                                   | 12.7                                  | 1.9                                   | 4.5                                   | 0.6                                   | 3.5                                   | 0.4                                   | 45                                   | 43                                    | 26        | 5        |
| JPAC372 | 40        | 44      | 4             | 2571        | 433                                   | 1126                    | 143                                    | 567                                   | 85                                    | 17.1                                  | 52                                    | 5.7                                   | 25.9                                  | 3.8                                   | 9                                     | 1                                     | 7.2                                   | 0.8                                   | 95                                   | 39                                    | 22        | 5        |
| JPAC372 | 44        | 48      | 4             | 918         | 111                                   | 366                     | 46                                     | 206                                   | 37                                    | 9                                     | 24                                    | 2.7                                   | 14.7                                  | 2.4                                   | 6.8                                   | 1                                     | 6.2                                   | 0.9                                   | 86                                   | 32                                    | 13        | 3        |
| JPAC373 | 16        | 20      | 4             | 59          | 16                                    | 23                      | 3                                      | 9                                     | 1                                     | 0.4                                   | 1                                     | 0.2                                   | 0.9                                   | 0.2                                   | 0.7                                   | 0.1                                   | 0.9                                   | 0.1                                   | 4                                    | 44                                    | 7         | 1        |
| JPAC373 | 20        | 24      | 4             | 73          | 19                                    | 33                      | 3                                      | 7                                     | 1                                     | 0.3                                   | 1                                     | 0.2                                   | 1.4                                   | 0.3                                   | 0.9                                   | 0.2                                   | 1.3                                   | 0.2                                   | 6                                    | 43                                    | 7         | 1        |
| JPAC373 | 24        | 28      | 4             | 77          | 18                                    | 32                      | 3                                      | 10                                    | 2                                     | 0.5                                   | 1                                     | 0.3                                   | 1.5                                   | 0.3                                   | 0.8                                   | 0.2                                   | 1                                     | 0.1                                   | 6                                    | 41                                    | 6         | 1        |
| JPAC373 | 28        | 32      | 4             | 197         | 35                                    | 90                      | 9                                      | 34                                    | 6                                     | 1.5                                   | 4                                     | 0.6                                   | 2.7                                   | 0.5                                   | 1.2                                   | 0.2                                   | 1.3                                   | 0.1                                   | 12                                   | 35                                    | 6         | 2        |
| JPAC373 | 32        | 36      | 4             | 963         | 218                                   | 501                     | 44                                     | 141                                   | 16                                    | 3.7                                   | 9                                     | 1.1                                   | 5.2                                   | 0.9                                   | 2.2                                   | 0.3                                   | 1.9                                   | 0.2                                   | 19                                   | 33                                    | 5         | 2        |
| JPAC373 | 36        | 40      | 4             | 1517        | 72                                    | 296                     | 44                                     | 237                                   | 60                                    | 18.8                                  | 80                                    | 13.6                                  | 83.6                                  | 16.7                                  | 48.7                                  | 6.2                                   | 35.5                                  | 5.3                                   | 500                                  | 33                                    | 4         | 3        |
| JPAC373 | 40        | 44      | 4             | 543         | 16                                    | 51                      | 9                                      | 63                                    | 25                                    | 8.9                                   | 37                                    | 5.7                                   | 33.6                                  | 6.5                                   | 18.9                                  | 2.4                                   | 14.6                                  | 2                                     | 250                                  | 30                                    | 3         | 2        |
| JPAC373 | 44        | 45      | 1             | 155         | 17                                    | 39                      | 5                                      | 23                                    | 6                                     | 1.8                                   | 7                                     | 1.1                                   | 6.5                                   | 1.3                                   | 3.4                                   | 0.4                                   | 2.7                                   | 0.4                                   | 41                                   | 27                                    | 3         | 1        |
| JPAC374 | 8         | 12      | 4             | 455         | 93                                    | 195                     | 23                                     | 85                                    | 12                                    | 2.5                                   | 9                                     | 1                                     | 5.5                                   | 0.8                                   | 2.2                                   | 0.3                                   | 1.7                                   | 0.3                                   | 24                                   | 33                                    | 20        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC374 | 12        | 16      | 4             | 1355        | 256                                   | 618                     | 72                                     | 268                                   | 39                                    | 8                                     | 25                                    | 2.8                                   | 13.3                                  | 1.9                                   | 4.1                                   | 0.5                                   | 2.6                                   | 0.3                                   | 45                                   | 48                                    | 26        | 2        |
| JPAC374 | 16        | 20      | 4             | 1924        | 362                                   | 893                     | 102                                    | 384                                   | 56                                    | 11.4                                  | 33                                    | 3.5                                   | 16.8                                  | 2.3                                   | 5.1                                   | 0.6                                   | 3.5                                   | 0.4                                   | 51                                   | 47                                    | 33        | 3        |
| JPAC374 | 20        | 24      | 4             | 1623        | 308                                   | 749                     | 83                                     | 310                                   | 47                                    | 9.6                                   | 27                                    | 3.2                                   | 14.3                                  | 2.2                                   | 5.6                                   | 0.7                                   | 4.1                                   | 0.5                                   | 58                                   | 46                                    | 36        | 3        |
| JPAC374 | 24        | 28      | 4             | 1185        | 211                                   | 513                     | 57                                     | 230                                   | 36                                    | 8.3                                   | 24                                    | 2.8                                   | 14                                    | 2.4                                   | 6.2                                   | 0.8                                   | 6.1                                   | 0.9                                   | 73                                   | 38                                    | 19        | 3        |
| JPAC374 | 28        | 32      | 4             | 1624        | 292                                   | 715                     | 84                                     | 342                                   | 51                                    | 10.1                                  | 30                                    | 3.2                                   | 15.4                                  | 2.4                                   | 5.7                                   | 0.7                                   | 5.7                                   | 0.8                                   | 67                                   | 34                                    | 21        | 4        |
| JPAC374 | 32        | 36      | 4             | 1702        | 215                                   | 521                     | 68                                     | 295                                   | 57                                    | 16.7                                  | 60                                    | 8.4                                   | 50.4                                  | 9.7                                   | 27.8                                  | 4.1                                   | 28.6                                  | 3.8                                   | 338                                  | 30                                    | 16        | 5        |
| JPAC374 | 36        | 40      | 4             | 1317        | 206                                   | 493                     | 59                                     | 237                                   | 43                                    | 10.8                                  | 37                                    | 4.4                                   | 25.6                                  | 4.8                                   | 13.1                                  | 1.8                                   | 11.7                                  | 1.9                                   | 169                                  | 31                                    | 17        | 5        |
| JPAC374 | 40        | 42      | 2             | 861         | 152                                   | 353                     | 41                                     | 161                                   | 25                                    | 6.4                                   | 20                                    | 2.5                                   | 12.2                                  | 2.1                                   | 5.5                                   | 0.8                                   | 5.2                                   | 0.6                                   | 75                                   | 24                                    | 13        | 3        |
| JPAC375 | 8         | 12      | 4             | 1025        | 157                                   | 550                     | 42                                     | 163                                   | 26                                    | 5.1                                   | 16                                    | 1.9                                   | 9.8                                   | 1.7                                   | 4.1                                   | 0.5                                   | 3.4                                   | 0.4                                   | 44                                   | 33                                    | 19        | 2        |
| JPAC375 | 12        | 16      | 4             | 1474        | 280                                   | 738                     | 73                                     | 269                                   | 36                                    | 6.8                                   | 17                                    | 1.8                                   | 8.1                                   | 1.4                                   | 3.7                                   | 0.5                                   | 3                                     | 0.4                                   | 35                                   | 30                                    | 16        | 3        |
| JPAC375 | 16        | 19      | 3             | 920         | 147                                   | 355                     | 43                                     | 170                                   | 31                                    | 6.8                                   | 24                                    | 3.2                                   | 17.3                                  | 3.2                                   | 8.7                                   | 1.1                                   | 7                                     | 0.9                                   | 103                                  | 27                                    | 14        | 3        |
| JPAC376 | 8         | 12      | 4             | 586         | 119                                   | 248                     | 30                                     | 113                                   | 17                                    | 3.2                                   | 10                                    | 1.2                                   | 6.2                                   | 1.1                                   | 2.9                                   | 0.3                                   | 2.2                                   | 0.3                                   | 31                                   | 25                                    | 19        | 2        |
| JPAC377 | 8         | 9       | 1             | 316         | 68                                    | 121                     | 16                                     | 59                                    | 10                                    | 1.7                                   | 6                                     | 0.8                                   | 4.7                                   | 0.7                                   | 2.2                                   | 0.3                                   | 1.9                                   | 0.3                                   | 25                                   | 27                                    | 22        | 2        |
| JPAC378 | 8         | 12      | 4             | 628         | 171                                   | 319                     | 28                                     | 80                                    | 8                                     | 1.6                                   | 3                                     | 0.4                                   | 2                                     | 0.3                                   | 0.9                                   | 0.1                                   | 0.8                                   | 0.1                                   | 12                                   | 26                                    | 26        | 1        |
| JPAC378 | 12        | 16      | 4             | 427         | 86                                    | 244                     | 17                                     | 52                                    | 6                                     | 2                                     | 4                                     | 0.4                                   | 2.7                                   | 0.4                                   | 1                                     | 0.1                                   | 0.7                                   | 0.1                                   | 12                                   | 31                                    | 12        | 1        |
| JPAC378 | 16        | 20      | 4             | 784         | 192                                   | 402                     | 35                                     | 113                                   | 14                                    | 3.1                                   | 7                                     | 0.7                                   | 3.6                                   | 0.5                                   | 1.3                                   | 0.1                                   | 1                                     | 0.1                                   | 12                                   | 37                                    | 28        | 2        |
| JPAC378 | 20        | 24      | 4             | 803         | 240                                   | 348                     | 40                                     | 125                                   | 14                                    | 2.5                                   | 8                                     | 0.8                                   | 3.9                                   | 0.7                                   | 1.4                                   | 0.2                                   | 1.2                                   | 0.1                                   | 19                                   | 34                                    | 35        | 2        |
| JPAC378 | 24        | 28      | 4             | 863         | 227                                   | 389                     | 43                                     | 139                                   | 17                                    | 3.1                                   | 10                                    | 1.1                                   | 5.7                                   | 0.9                                   | 2.3                                   | 0.2                                   | 1.3                                   | 0.2                                   | 24                                   | 32                                    | 34        | 2        |
| JPAC378 | 28        | 32      | 4             | 869         | 198                                   | 403                     | 41                                     | 141                                   | 19                                    | 3.9                                   | 12                                    | 1.4                                   | 7.2                                   | 1.2                                   | 3.1                                   | 0.4                                   | 2.4                                   | 0.3                                   | 35                                   | 26                                    | 30        | 2        |
| JPAC378 | 32        | 36      | 4             | 1059        | 207                                   | 498                     | 57                                     | 208                                   | 26                                    | 5.1                                   | 14                                    | 1.5                                   | 7.3                                   | 1.1                                   | 2.6                                   | 0.3                                   | 2.3                                   | 0.3                                   | 29                                   | 27                                    | 27        | 3        |
| JPAC378 | 36        | 38      | 2             | 840         | 157                                   | 364                     | 46                                     | 180                                   | 26                                    | 4.9                                   | 14                                    | 1.6                                   | 7.7                                   | 1.2                                   | 2.9                                   | 0.3                                   | 2.3                                   | 0.3                                   | 34                                   | 25                                    | 23        | 3        |
| JPAC379 | 8         | 12      | 4             | 482         | 106                                   | 186                     | 24                                     | 93                                    | 13                                    | 3                                     | 9                                     | 1.1                                   | 6.5                                   | 1.1                                   | 2.7                                   | 0.4                                   | 2.7                                   | 0.3                                   | 34                                   | 33                                    | 19        | 2        |
| JPAC379 | 12        | 16      | 4             | 1390        | 327                                   | 537                     | 75                                     | 272                                   | 42                                    | 8.8                                   | 27                                    | 3                                     | 15.1                                  | 2.4                                   | 5.9                                   | 0.8                                   | 4.8                                   | 0.7                                   | 70                                   | 48                                    | 29        | 3        |
| JPAC379 | 16        | 20      | 4             | 1940        | 402                                   | 940                     | 91                                     | 315                                   | 50                                    | 9.8                                   | 30                                    | 3.4                                   | 16.1                                  | 2.5                                   | 6.5                                   | 0.7                                   | 4                                     | 0.4                                   | 69                                   | 42                                    | 34        | 3        |
| JPAC379 | 20        | 24      | 4             | 1809        | 373                                   | 846                     | 93                                     | 314                                   | 46                                    | 8.6                                   | 26                                    | 2.7                                   | 13.7                                  | 2.1                                   | 6                                     | 0.7                                   | 4.2                                   | 0.6                                   | 73                                   | 41                                    | 29        | 3        |
| JPAC379 | 24        | 28      | 4             | 1608        | 285                                   | 747                     | 84                                     | 309                                   | 48                                    | 9                                     | 28                                    | 3                                     | 13.8                                  | 2.1                                   | 5.9                                   | 0.8                                   | 4.9                                   | 0.9                                   | 68                                   | 38                                    | 25        | 3        |
| JPAC379 | 28        | 32      | 4             | 1637        | 279                                   | 861                     | 81                                     | 289                                   | 40                                    | 6.8                                   | 20                                    | 1.9                                   | 8.9                                   | 1.3                                   | 3.4                                   | 0.5                                   | 2.9                                   | 0.5                                   | 41                                   | 29                                    | 18        | 6        |
| JPAC379 | 32        | 36      | 4             | 1222        | 178                                   | 474                     | 58                                     | 236                                   | 43                                    | 8.9                                   | 33                                    | 4.2                                   | 21.7                                  | 3.8                                   | 10.6                                  | 1.4                                   | 8.1                                   | 1.3                                   | 141                                  | 26                                    | 17        | 4        |
| JPAC379 | 36        | 40      | 4             | 936         | 165                                   | 383                     | 46                                     | 176                                   | 29                                    | 6.4                                   | 22                                    | 2.5                                   | 12.9                                  | 2.3                                   | 5.8                                   | 0.8                                   | 4.6                                   | 0.7                                   | 78                                   | 26                                    | 16        | 4        |
| JPAC380 | 4         | 8       | 4             | 351         | 72                                    | 151                     | 16                                     | 58                                    | 9                                     | 1.9                                   | 6                                     | 0.8                                   | 4.7                                   | 0.8                                   | 2.5                                   | 0.3                                   | 2.1                                   | 0.3                                   | 26                                   | 28                                    | 21        | 2        |
| JPAC380 | 8         | 12      | 4             | 657         | 130                                   | 300                     | 38                                     | 138                                   | 17                                    | 2.8                                   | 7                                     | 0.8                                   | 3.3                                   | 0.5                                   | 1.5                                   | 0.2                                   | 1.5                                   | 0.2                                   | 18                                   | 30                                    | 19        | 4        |
| JPAC380 | 12        | 16      | 4             | 1000        | 185                                   | 470                     | 57                                     | 212                                   | 28                                    | 4.8                                   | 12                                    | 1.1                                   | 4.4                                   | 0.7                                   | 1.9                                   | 0.2                                   | 1.8                                   | 0.2                                   | 21                                   | 30                                    | 16        | 4        |
| JPAC380 | 16        | 20      | 4             | 1001        | 155                                   | 387                     | 50                                     | 208                                   | 36                                    | 8                                     | 25                                    | 3.3                                   | 16.6                                  | 3                                     | 8.1                                   | 0.9                                   | 5.4                                   | 0.7                                   | 95                                   | 26                                    | 14        | 4        |
| JPAC380 | 20        | 24      | 4             | 968         | 168                                   | 410                     | 49                                     | 193                                   | 32                                    | 6.3                                   | 21                                    | 2.5                                   | 12.5                                  | 2                                     | 5.2                                   | 0.6                                   | 3.7                                   | 0.5                                   | 62                                   | 27                                    | 15        | 3        |
| JPAC380 | 24        | 26      | 2             | 833         | 137                                   | 350                     | 41                                     | 165                                   | 29                                    | 6                                     | 19                                    | 2.3                                   | 11.5                                  | 1.9                                   | 5.5                                   | 0.6                                   | 3.8                                   | 0.5                                   | 61                                   | 24                                    | 13        | 4        |
| JPAC381 | 8         | 12      | 4             | 206         | 59                                    | 68                      | 11                                     | 35                                    | 5                                     | 1                                     | 4                                     | 0.5                                   | 2.7                                   | 0.5                                   | 1.5                                   | 0.2                                   | 1.4                                   | 0.2                                   | 17                                   | 28                                    | 21        | 2        |
| JPAC381 | 12        | 16      | 4             | 399         | 128                                   | 179                     | 17                                     | 48                                    | 6                                     | 1.5                                   | 4                                     | 0.5                                   | 2.1                                   | 0.3                                   | 1                                     | 0.1                                   | 0.7                                   | 0.1                                   | 11                                   | 33                                    | 32        | 1        |
| JPAC381 | 16        | 20      | 4             | 502         | 144                                   | 276                     | 18                                     | 47                                    | 5                                     | 1.1                                   | 3                                     | 0.3                                   | 1.5                                   | 0.3                                   | 0.6                                   | 0.1                                   | 0.6                                   | 0.1                                   | 6                                    | 29                                    | 37        | 1        |
| JPAC381 | 20        | 24      | 4             | 806         | 202                                   | 440                     | 30                                     | 87                                    | 10                                    | 2.3                                   | 6                                     | 0.8                                   | 3.9                                   | 0.7                                   | 1.9                                   | 0.2                                   | 1.4                                   | 0.2                                   | 20                                   | 36                                    | 40        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC381 | 24        | 28      | 4             | 1848        | 400                                   | 785                     | 101                                    | 359                                   | 54                                    | 10.5                                  | 30                                    | 3.9                                   | 18.1                                  | 3                                     | 7.4                                   | 0.9                                   | 4.7                                   | 0.6                                   | 70                                   | 46                                    | 46        | 4        |
| JPAC381 | 28        | 32      | 4             | 1440        | 257                                   | 806                     | 62                                     | 205                                   | 28                                    | 5                                     | 16                                    | 2                                     | 8.7                                   | 1.5                                   | 3.7                                   | 0.5                                   | 3                                     | 0.5                                   | 41                                   | 42                                    | 51        | 3        |
| JPAC381 | 32        | 36      | 4             | 992         | 168                                   | 486                     | 49                                     | 184                                   | 29                                    | 5.8                                   | 15                                    | 2                                     | 9                                     | 1.5                                   | 3.9                                   | 0.5                                   | 3.2                                   | 0.5                                   | 36                                   | 29                                    | 35        | 1        |
| JPAC381 | 36        | 38      | 2             | 551         | 125                                   | 274                     | 25                                     | 83                                    | 11                                    | 2.2                                   | 6                                     | 0.7                                   | 3.1                                   | 0.6                                   | 1.7                                   | 0.2                                   | 1.6                                   | 0.2                                   | 16                                   | 23                                    | 24        | 1        |
| JPAC382 | 4         | 8       | 4             | 313         | 63                                    | 134                     | 15                                     | 52                                    | 9                                     | 1.7                                   | 6                                     | 0.7                                   | 4.6                                   | 0.9                                   | 2.6                                   | 0.3                                   | 1.9                                   | 0.3                                   | 22                                   | 27                                    | 22        | 2        |
| JPAC382 | 8         | 12      | 4             | 2558        | 310                                   | 1800                    | 83                                     | 264                                   | 33                                    | 5.5                                   | 15                                    | 1.7                                   | 7.3                                   | 1.2                                   | 2.9                                   | 0.4                                   | 2.3                                   | 0.3                                   | 33                                   | 30                                    | 25        | 2        |
| JPAC382 | 12        | 16      | 4             | 1624        | 284                                   | 894                     | 68                                     | 241                                   | 34                                    | 7.6                                   | 21                                    | 2.6                                   | 11.8                                  | 2                                     | 4.6                                   | 0.5                                   | 3.1                                   | 0.5                                   | 49                                   | 44                                    | 35        | 3        |
| JPAC382 | 16        | 20      | 4             | 928         | 192                                   | 499                     | 40                                     | 134                                   | 16                                    | 4.5                                   | 9                                     | 1.1                                   | 5.1                                   | 0.8                                   | 2                                     | 0.3                                   | 1.7                                   | 0.3                                   | 24                                   | 40                                    | 30        | 2        |
| JPAC382 | 20        | 24      | 4             | 1187        | 183                                   | 730                     | 45                                     | 154                                   | 22                                    | 5.9                                   | 10                                    | 1.2                                   | 5.5                                   | 0.9                                   | 2.5                                   | 0.4                                   | 2.5                                   | 0.4                                   | 25                                   | 35                                    | 26        | 2        |
| JPAC382 | 24        | 28      | 4             | 829         | 154                                   | 442                     | 36                                     | 128                                   | 16                                    | 4.8                                   | 9                                     | 1.1                                   | 4.9                                   | 0.9                                   | 2.2                                   | 0.4                                   | 2.1                                   | 0.4                                   | 29                                   | 34                                    | 31        | 2        |
| JPAC382 | 28        | 32      | 4             | 509         | 88                                    | 268                     | 23                                     | 82                                    | 11                                    | 4                                     | 6                                     | 0.8                                   | 3.5                                   | 0.6                                   | 1.8                                   | 0.3                                   | 1.7                                   | 0.3                                   | 19                                   | 31                                    | 21        | 2        |
| JPAC382 | 32        | 33      | 1             | 771         | 142                                   | 424                     | 35                                     | 126                                   | 16                                    | 3.9                                   | 7                                     | 0.7                                   | 2.8                                   | 0.4                                   | 1                                     | 0.1                                   | 0.9                                   | 0.2                                   | 11                                   | 28                                    | 22        | 2        |
| JPAC383 | 4         | 8       | 4             | 271         | 55                                    | 132                     | 12                                     | 37                                    | 6                                     | 1.3                                   | 4                                     | 0.5                                   | 3.2                                   | 0.6                                   | 1.8                                   | 0.3                                   | 1.8                                   | 0.3                                   | 17                                   | 27                                    | 23        | 2        |
| JPAC383 | 8         | 12      | 4             | 597         | 116                                   | 249                     | 30                                     | 110                                   | 17                                    | 3.9                                   | 11                                    | 1.6                                   | 7.1                                   | 1.3                                   | 3.5                                   | 0.5                                   | 2.8                                   | 0.4                                   | 43                                   | 32                                    | 23        | 3        |
| JPAC383 | 12        | 16      | 4             | 1284        | 244                                   | 646                     | 61                                     | 212                                   | 32                                    | 7.2                                   | 19                                    | 2.3                                   | 10.5                                  | 1.6                                   | 3.5                                   | 0.5                                   | 2.6                                   | 0.4                                   | 43                                   | 46                                    | 20        | 2        |
| JPAC383 | 16        | 20      | 4             | 787         | 169                                   | 349                     | 42                                     | 149                                   | 24                                    | 5.1                                   | 13                                    | 1.7                                   | 7.5                                   | 1                                     | 2.3                                   | 0.3                                   | 1.8                                   | 0.3                                   | 23                                   | 42                                    | 23        | 2        |
| JPAC383 | 20        | 24      | 4             | 1458        | 286                                   | 744                     | 73                                     | 248                                   | 35                                    | 7.9                                   | 18                                    | 2.1                                   | 9.2                                   | 1.2                                   | 2.9                                   | 0.4                                   | 2.2                                   | 0.3                                   | 27                                   | 36                                    | 24        | 3        |
| JPAC383 | 24        | 28      | 4             | 1404        | 242                                   | 654                     | 79                                     | 293                                   | 41                                    | 8.5                                   | 22                                    | 2.6                                   | 11.2                                  | 1.8                                   | 4                                     | 0.6                                   | 4                                     | 0.6                                   | 41                                   | 31                                    | 19        | 3        |
| JPAC383 | 28        | 32      | 4             | 1262        | 185                                   | 510                     | 68                                     | 278                                   | 43                                    | 9.6                                   | 27                                    | 3                                     | 15.4                                  | 2.8                                   | 7.8                                   | 1.2                                   | 8.8                                   | 1.4                                   | 103                                  | 27                                    | 17        | 3        |
| JPAC383 | 32        | 36      | 4             | 874         | 127                                   | 318                     | 42                                     | 164                                   | 30                                    | 7.2                                   | 24                                    | 3.3                                   | 17.7                                  | 3.3                                   | 8.9                                   | 1.2                                   | 6.9                                   | 1                                     | 120                                  | 25                                    | 14        | 2        |
| JPAC383 | 36        | 38      | 2             | 948         | 160                                   | 397                     | 49                                     | 186                                   | 30                                    | 6.8                                   | 20                                    | 2.5                                   | 12.3                                  | 2.2                                   | 5.5                                   | 0.7                                   | 4.2                                   | 0.6                                   | 73                                   | 26                                    | 18        | 3        |
| JPAC384 | 12        | 16      | 4             | 330         | 111                                   | 109                     | 16                                     | 54                                    | 7                                     | 2.5                                   | 5                                     | 0.7                                   | 3.5                                   | 0.6                                   | 1.5                                   | 0.3                                   | 1.3                                   | 0.3                                   | 18                                   | 38                                    | 15        | 2        |
| JPAC384 | 16        | 20      | 4             | 366         | 123                                   | 139                     | 18                                     | 51                                    | 7                                     | 2.6                                   | 4                                     | 0.6                                   | 2.7                                   | 0.5                                   | 1.4                                   | 0.2                                   | 1.3                                   | 0.2                                   | 15                                   | 39                                    | 31        | 2        |
| JPAC384 | 20        | 24      | 4             | 443         | 139                                   | 178                     | 22                                     | 66                                    | 8                                     | 3.1                                   | 5                                     | 0.6                                   | 3                                     | 0.6                                   | 1.3                                   | 0.2                                   | 1.5                                   | 0.2                                   | 15                                   | 35                                    | 26        | 2        |
| JPAC384 | 24        | 28      | 4             | 388         | 105                                   | 176                     | 19                                     | 57                                    | 8                                     | 2.1                                   | 4                                     | 0.5                                   | 2.2                                   | 0.4                                   | 1.3                                   | 0.2                                   | 1.2                                   | 0.2                                   | 13                                   | 26                                    | 23        | 1        |
| JPAC384 | 28        | 32      | 4             | 581         | 127                                   | 275                     | 27                                     | 91                                    | 12                                    | 3                                     | 8                                     | 0.9                                   | 4.6                                   | 0.8                                   | 2.1                                   | 0.3                                   | 2.1                                   | 0.4                                   | 27                                   | 23                                    | 26        | 1        |
| JPAC384 | 32        | 35      | 3             | 1749        | 289                                   | 839                     | 90                                     | 327                                   | 48                                    | 9.5                                   | 28                                    | 3.3                                   | 15.2                                  | 2.6                                   | 6.3                                   | 0.9                                   | 5                                     | 0.8                                   | 86                                   | 27                                    | 27        | 4        |
| JPAC385 | 8         | 12      | 4             | 244         | 53                                    | 103                     | 12                                     | 40                                    | 6                                     | 1.2                                   | 4                                     | 0.5                                   | 3                                     | 0.5                                   | 1.6                                   | 0.2                                   | 1.2                                   | 0.2                                   | 17                                   | 24                                    | 17        | 2        |
| JPAC385 | 12        | 16      | 4             | 903         | 205                                   | 407                     | 44                                     | 150                                   | 23                                    | 4.1                                   | 13                                    | 1.7                                   | 8                                     | 1.4                                   | 3.2                                   | 0.4                                   | 2.5                                   | 0.4                                   | 39                                   | 35                                    | 35        | 2        |
| JPAC385 | 16        | 20      | 4             | 439         | 116                                   | 222                     | 18                                     | 54                                    | 7                                     | 1.8                                   | 4                                     | 0.5                                   | 2.4                                   | 0.4                                   | 1                                     | 0.1                                   | 0.8                                   | 0.1                                   | 12                                   | 31                                    | 36        | 2        |
| JPAC385 | 20        | 24      | 4             | 385         | 122                                   | 182                     | 17                                     | 45                                    | 5                                     | 1.5                                   | 2                                     | 0.3                                   | 1.5                                   | 0.2                                   | 0.6                                   | 0.1                                   | 0.6                                   | 0.1                                   | 7                                    | 28                                    | 35        | 1        |
| JPAC385 | 24        | 28      | 4             | 290         | 84                                    | 149                     | 11                                     | 31                                    | 4                                     | 1.2                                   | 2                                     | 0.2                                   | 1.1                                   | 0.2                                   | 0.5                                   | 0.1                                   | 0.4                                   | 0.1                                   | 5                                    | 28                                    | 31        | 1        |
| JPAC385 | 28        | 32      | 4             | 296         | 90                                    | 138                     | 14                                     | 39                                    | 4                                     | 1.6                                   | 2                                     | 0.3                                   | 1                                     | 0.2                                   | 0.5                                   | 0.1                                   | 0.5                                   | 0.1                                   | 5                                    | 27                                    | 31        | 1        |
| JPAC385 | 32        | 36      | 4             | 381         | 109                                   | 191                     | 16                                     | 44                                    | 5                                     | 1.5                                   | 3                                     | 0.4                                   | 1.7                                   | 0.3                                   | 0.7                                   | 0.1                                   | 0.7                                   | 0.1                                   | 9                                    | 31                                    | 39        | 2        |
| JPAC385 | 36        | 40      | 4             | 426         | 130                                   | 175                     | 23                                     | 67                                    | 8                                     | 1.9                                   | 4                                     | 0.5                                   | 2.4                                   | 0.4                                   | 0.9                                   | 0.1                                   | 0.9                                   | 0.1                                   | 12                                   | 31                                    | 35        | 2        |
| JPAC385 | 40        | 44      | 4             | 1186        | 317                                   | 397                     | 79                                     | 273                                   | 38                                    | 6.3                                   | 19                                    | 2.2                                   | 9.5                                   | 1.5                                   | 3.3                                   | 0.5                                   | 3                                     | 0.4                                   | 38                                   | 39                                    | 45        | 3        |
| JPAC385 | 44        | 48      | 4             | 1252        | 342                                   | 472                     | 73                                     | 250                                   | 35                                    | 6.4                                   | 17                                    | 2                                     | 8.9                                   | 1.4                                   | 3.3                                   | 0.4                                   | 3                                     | 0.5                                   | 38                                   | 31                                    | 47        | 3        |
| JPAC385 | 48        | 52      | 4             | 858         | 182                                   | 423                     | 37                                     | 135                                   | 19                                    | 4.2                                   | 13                                    | 1.4                                   | 6.5                                   | 1.1                                   | 2.8                                   | 0.4                                   | 2.3                                   | 0.4                                   | 31                                   | 27                                    | 32        | 2        |
| JPAC385 | 52        | 53      | 1             | 376         | 83                                    | 163                     | 15                                     | 50                                    | 6                                     | 1.5                                   | 6                                     | 0.8                                   | 4.3                                   | 0.9                                   | 2.5                                   | 0.4                                   | 2.6                                   | 0.4                                   | 39                                   | 25                                    | 31        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC386 | 12        | 16      | 4             | 260         | 97                                    | 72                      | 16                                     | 49                                    | 6                                     | 1.3                                   | 4                                     | 0.4                                   | 2                                     | 0.3                                   | 0.8                                   | 0.1                                   | 0.6                                   | 0.1                                   | 11                                   | 35                                    | 20        | 1        |
| JPAC386 | 16        | 20      | 4             | 365         | 127                                   | 95                      | 25                                     | 78                                    | 10                                    | 2.1                                   | 6                                     | 0.7                                   | 3.2                                   | 0.5                                   | 1.2                                   | 0.1                                   | 0.8                                   | 0.1                                   | 16                                   | 32                                    | 29        | 1        |
| JPAC386 | 20        | 24      | 4             | 317         | 93                                    | 156                     | 13                                     | 38                                    | 4                                     | 1.1                                   | 2                                     | 0.3                                   | 1.5                                   | 0.2                                   | 0.5                                   | 0.1                                   | 0.4                                   | 0.1                                   | 7                                    | 28                                    | 35        | 1        |
| JPAC386 | 24        | 28      | 4             | 494         | 163                                   | 235                     | 22                                     | 56                                    | 5                                     | 1.4                                   | 3                                     | 0.3                                   | 1.4                                   | 0.2                                   | 0.5                                   | 0.1                                   | 0.4                                   | 0.1                                   | 5                                    | 31                                    | 30        | 1        |
| JPAC386 | 28        | 32      | 4             | 799         | 278                                   | 311                     | 42                                     | 120                                   | 13                                    | 2.8                                   | 8                                     | 0.8                                   | 4                                     | 0.6                                   | 1.5                                   | 0.2                                   | 0.9                                   | 0.1                                   | 18                                   | 31                                    | 33        | 1        |
| JPAC386 | 32        | 36      | 4             | 666         | 184                                   | 290                     | 33                                     | 100                                   | 14                                    | 2.8                                   | 8                                     | 1                                     | 4.7                                   | 0.8                                   | 1.9                                   | 0.3                                   | 1.4                                   | 0.2                                   | 26                                   | 32                                    | 38        | 2        |
| JPAC386 | 36        | 40      | 4             | 1081        | 236                                   | 576                     | 45                                     | 144                                   | 20                                    | 4.3                                   | 12                                    | 1.4                                   | 6.5                                   | 1                                     | 2.3                                   | 0.3                                   | 1.8                                   | 0.2                                   | 31                                   | 33                                    | 43        | 2        |
| JPAC386 | 40        | 44      | 4             | 1847        | 375                                   | 920                     | 91                                     | 299                                   | 43                                    | 8.1                                   | 21                                    | 2.8                                   | 13.1                                  | 2.2                                   | 5.4                                   | 0.7                                   | 4.5                                   | 0.7                                   | 61                                   | 44                                    | 43        | 6        |
| JPAC386 | 44        | 48      | 4             | 1298        | 285                                   | 518                     | 75                                     | 267                                   | 41                                    | 7.7                                   | 21                                    | 2.5                                   | 11.8                                  | 2                                     | 4.8                                   | 0.7                                   | 4.2                                   | 0.6                                   | 58                                   | 44                                    | 41        | 4        |
| JPAC386 | 48        | 52      | 4             | 1361        | 337                                   | 641                     | 65                                     | 215                                   | 27                                    | 6.5                                   | 15                                    | 1.7                                   | 8                                     | 1.3                                   | 3.3                                   | 0.5                                   | 2.9                                   | 0.5                                   | 37                                   | 47                                    | 67        | 4        |
| JPAC386 | 52        | 56      | 4             | 823         | 209                                   | 355                     | 41                                     | 139                                   | 18                                    | 5.2                                   | 10                                    | 1.2                                   | 5.9                                   | 1                                     | 2.8                                   | 0.4                                   | 2.7                                   | 0.5                                   | 32                                   | 41                                    | 39        | 4        |
| JPAC386 | 56        | 60      | 4             | 835         | 184                                   | 381                     | 40                                     | 139                                   | 20                                    | 5                                     | 12                                    | 1.5                                   | 6.8                                   | 1.2                                   | 3.2                                   | 0.5                                   | 2.8                                   | 0.4                                   | 39                                   | 40                                    | 37        | 4        |
| JPAC386 | 60        | 64      | 4             | 636         | 140                                   | 285                     | 30                                     | 107                                   | 16                                    | 4.6                                   | 10                                    | 1.2                                   | 6                                     | 1                                     | 2.6                                   | 0.4                                   | 2.1                                   | 0.3                                   | 32                                   | 38                                    | 26        | 3        |
| JPAC386 | 64        | 68      | 4             | 660         | 158                                   | 312                     | 30                                     | 96                                    | 13                                    | 4.1                                   | 8                                     | 0.9                                   | 4.7                                   | 0.8                                   | 2.1                                   | 0.3                                   | 1.7                                   | 0.3                                   | 29                                   | 37                                    | 28        | 3        |
| JPAC386 | 68        | 72      | 4             | 672         | 139                                   | 314                     | 32                                     | 111                                   | 18                                    | 3.4                                   | 10                                    | 1.4                                   | 6.1                                   | 1                                     | 2.8                                   | 0.4                                   | 2.3                                   | 0.3                                   | 31                                   | 41                                    | 28        | 3        |
| JPAC386 | 73        | 76      | 3             | 1141        | 229                                   | 470                     | 57                                     | 215                                   | 32                                    | 6.4                                   | 21                                    | 2.6                                   | 12.6                                  | 2.2                                   | 6                                     | 0.9                                   | 5.1                                   | 0.8                                   | 81                                   | 32                                    | 41        | 5        |
| JPAC386 | 76        | 78      | 2             | 962         | 177                                   | 382                     | 46                                     | 178                                   | 27                                    | 6                                     | 19                                    | 2.4                                   | 12.1                                  | 2.2                                   | 6.5                                   | 1                                     | 5.8                                   | 0.9                                   | 97                                   | 26                                    | 57        | 4        |
| JPAC387 | 4         | 8       | 4             | 397         | 86                                    | 164                     | 19                                     | 65                                    | 10                                    | 1.9                                   | 7                                     | 0.9                                   | 4.8                                   | 1                                     | 2.6                                   | 0.4                                   | 2.4                                   | 0.3                                   | 33                                   | 29                                    | 25        | 2        |
| JPAC387 | 8         | 12      | 4             | 562         | 123                                   | 236                     | 29                                     | 105                                   | 15                                    | 3.3                                   | 9                                     | 1.1                                   | 5.6                                   | 0.9                                   | 2.4                                   | 0.3                                   | 1.9                                   | 0.3                                   | 30                                   | 32                                    | 26        | 3        |
| JPAC387 | 12        | 16      | 4             | 1826        | 365                                   | 800                     | 96                                     | 365                                   | 54                                    | 11                                    | 33                                    | 3.6                                   | 15.7                                  | 2.5                                   | 5.4                                   | 0.6                                   | 3.4                                   | 0.5                                   | 72                                   | 49                                    | 30        | 3        |
| JPAC387 | 16        | 20      | 4             | 2668        | 479                                   | 1177                    | 135                                    | 549                                   | 85                                    | 17                                    | 51                                    | 5.7                                   | 25.7                                  | 4                                     | 9                                     | 1.1                                   | 5.8                                   | 0.8                                   | 123                                  | 47                                    | 31        | 4        |
| JPAC387 | 20        | 24      | 4             | 2049        | 339                                   | 854                     | 101                                    | 426                                   | 75                                    | 16.8                                  | 51                                    | 5.9                                   | 26.7                                  | 4.4                                   | 9.5                                   | 1.1                                   | 5.5                                   | 0.7                                   | 133                                  | 44                                    | 29        | 4        |
| JPAC387 | 24        | 28      | 4             | 1812        | 331                                   | 838                     | 91                                     | 334                                   | 57                                    | 13.3                                  | 37                                    | 4.2                                   | 18                                    | 3                                     | 6.4                                   | 0.7                                   | 4.1                                   | 0.5                                   | 75                                   | 51                                    | 30        | 5        |
| JPAC387 | 28        | 32      | 4             | 1967        | 310                                   | 867                     | 92                                     | 350                                   | 63                                    | 13.5                                  | 46                                    | 5.8                                   | 29.5                                  | 5.5                                   | 13.2                                  | 1.6                                   | 10.1                                  | 1.4                                   | 159                                  | 42                                    | 45        | 7        |
| JPAC387 | 32        | 36      | 4             | 1599        | 286                                   | 677                     | 76                                     | 282                                   | 50                                    | 10                                    | 33                                    | 4.2                                   | 20.5                                  | 4                                     | 9.8                                   | 1.4                                   | 9.1                                   | 1.4                                   | 135                                  | 35                                    | 13        | 4        |
| JPAC387 | 36        | 40      | 4             | 1645        | 311                                   | 711                     | 74                                     | 273                                   | 45                                    | 9.4                                   | 31                                    | 3.7                                   | 18.4                                  | 3.8                                   | 10.2                                  | 1.4                                   | 9.3                                   | 1.4                                   | 143                                  | 38                                    | 38        | 3        |
| JPAC387 | 40        | 44      | 4             | 1445        | 263                                   | 644                     | 72                                     | 268                                   | 46                                    | 9.5                                   | 30                                    | 3.2                                   | 14.7                                  | 2.5                                   | 6.3                                   | 0.8                                   | 4.6                                   | 0.6                                   | 82                                   | 32                                    | 17        | 2        |
| JPAC387 | 44        | 48      | 4             | 1089        | 238                                   | 490                     | 53                                     | 189                                   | 30                                    | 5.5                                   | 18                                    | 1.9                                   | 9.2                                   | 1.5                                   | 3.4                                   | 0.5                                   | 3                                     | 0.4                                   | 46                                   | 39                                    | 12        | 2        |
| JPAC387 | 48        | 52      | 4             | 869         | 174                                   | 376                     | 44                                     | 167                                   | 28                                    | 5.5                                   | 16                                    | 1.7                                   | 8                                     | 1.2                                   | 3.1                                   | 0.4                                   | 2.4                                   | 0.3                                   | 42                                   | 29                                    | 14        | 2        |
| JPAC387 | 52        | 56      | 4             | 991         | 198                                   | 427                     | 50                                     | 194                                   | 32                                    | 6.8                                   | 19                                    | 2.1                                   | 9.1                                   | 1.5                                   | 3.5                                   | 0.4                                   | 2.6                                   | 0.3                                   | 46                                   | 31                                    | 16        | 2        |
| JPAC387 | 56        | 60      | 4             | 964         | 189                                   | 412                     | 49                                     | 184                                   | 30                                    | 6.7                                   | 19                                    | 2.3                                   | 9.9                                   | 1.9                                   | 4.3                                   | 0.5                                   | 3.2                                   | 0.4                                   | 53                                   | 31                                    | 15        | 3        |
| JPAC388 | 4         | 8       | 4             | 334         | 69                                    | 144                     | 16                                     | 54                                    | 10                                    | 1.7                                   | 6                                     | 0.8                                   | 4.1                                   | 0.8                                   | 2.1                                   | 0.3                                   | 2                                     | 0.3                                   | 25                                   | 29                                    | 22        | 2        |
| JPAC388 | 8         | 12      | 4             | 429         | 138                                   | 136                     | 25                                     | 76                                    | 11                                    | 2.3                                   | 7                                     | 0.8                                   | 3.8                                   | 0.7                                   | 1.9                                   | 0.2                                   | 1.4                                   | 0.2                                   | 25                                   | 39                                    | 26        | 2        |
| JPAC388 | 12        | 16      | 4             | 3286        | 600                                   | 1548                    | 169                                    | 584                                   | 92                                    | 16.5                                  | 56                                    | 6.7                                   | 31.3                                  | 5.4                                   | 12.3                                  | 1.6                                   | 8.5                                   | 0.9                                   | 154                                  | 47                                    | 38        | 3        |
| JPAC388 | 16        | 20      | 4             | 2884        | 365                                   | 1542                    | 120                                    | 451                                   | 78                                    | 14.8                                  | 48                                    | 5.7                                   | 28.1                                  | 5.5                                   | 14.9                                  | 2.1                                   | 13.3                                  | 1.8                                   | 196                                  | 43                                    | 34        | 3        |
| JPAC388 | 20        | 24      | 4             | 3145        | 521                                   | 1554                    | 159                                    | 568                                   | 96                                    | 16.4                                  | 54                                    | 6.2                                   | 27.9                                  | 4.5                                   | 10                                    | 1.1                                   | 6.4                                   | 0.7                                   | 121                                  | 49                                    | 52        | 6        |
| JPAC388 | 24        | 28      | 4             | 1916        | 323                                   | 945                     | 97                                     | 338                                   | 56                                    | 9.4                                   | 31                                    | 3.9                                   | 18.1                                  | 2.9                                   | 6.7                                   | 0.7                                   | 4.5                                   | 0.5                                   | 81                                   | 52                                    | 54        | 4        |
| JPAC388 | 28        | 32      | 4             | 2466        | 437                                   | 1166                    | 121                                    | 451                                   | 80                                    | 14.1                                  | 49                                    | 5.5                                   | 25.2                                  | 4.1                                   | 8.1                                   | 1                                     | 5.7                                   | 0.6                                   | 97                                   | 48                                    | 54        | 4        |
| JPAC388 | 32        | 36      | 4             | 2186        | 419                                   | 1065                    | 110                                    | 377                                   | 63                                    | 10.2                                  | 34                                    | 4                                     | 17.7                                  | 2.8                                   | 6.2                                   | 0.7                                   | 4.7                                   | 0.6                                   | 72                                   | 47                                    | 56        | 4        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC388 | 36        | 40      | 4             | 2770        | 504                                   | 1321                    | 145                                    | 517                                   | 83                                    | 13.2                                  | 45                                    | 5.2                                   | 24                                    | 3.8                                   | 8.4                                   | 1                                     | 6.3                                   | 0.9                                   | 94                                   | 40                                    | 51        | 5        |
| JPAC388 | 40        | 44      | 4             | 1623        | 281                                   | 737                     | 79                                     | 297                                   | 56                                    | 10.1                                  | 34                                    | 4.1                                   | 17.7                                  | 3.1                                   | 7.1                                   | 1                                     | 6.1                                   | 0.9                                   | 89                                   | 40                                    | 32        | 4        |
| JPAC388 | 44        | 48      | 4             | 2211        | 418                                   | 929                     | 114                                    | 416                                   | 72                                    | 11.8                                  | 43                                    | 5.1                                   | 23.8                                  | 4.4                                   | 11.1                                  | 1.6                                   | 10.9                                  | 1.6                                   | 149                                  | 36                                    | 56        | 6        |
| JPAC388 | 48        | 52      | 4             | 1290        | 229                                   | 577                     | 66                                     | 246                                   | 43                                    | 7.2                                   | 24                                    | 3                                     | 13.3                                  | 2.3                                   | 5.4                                   | 0.8                                   | 4.7                                   | 0.7                                   | 68                                   | 29                                    | 34        | 4        |
| JPAC388 | 52        | 54      | 2             | 1547        | 265                                   | 654                     | 74                                     | 275                                   | 49                                    | 9                                     | 34                                    | 4.3                                   | 20.4                                  | 4                                     | 10.3                                  | 1.4                                   | 9.2                                   | 1.4                                   | 137                                  | 28                                    | 34        | 4        |
| JPAC389 | 4         | 8       | 4             | 364         | 76                                    | 146                     | 18                                     | 62                                    | 11                                    | 2                                     | 7                                     | 1                                     | 5                                     | 0.9                                   | 2.5                                   | 0.3                                   | 2.5                                   | 0.3                                   | 31                                   | 28                                    | 25        | 2        |
| JPAC389 | 8         | 12      | 4             | 1412        | 265                                   | 689                     | 65                                     | 240                                   | 39                                    | 8                                     | 24                                    | 2.7                                   | 11.8                                  | 1.9                                   | 4.8                                   | 0.5                                   | 3.5                                   | 0.5                                   | 56                                   | 47                                    | 27        | 3        |
| JPAC389 | 12        | 16      | 4             | 4346        | 476                                   | 2936                    | 129                                    | 478                                   | 88                                    | 18.2                                  | 55                                    | 6.6                                   | 30                                    | 4.6                                   | 9.6                                   | 1.2                                   | 6.9                                   | 0.8                                   | 107                                  | 62                                    | 33        | 3        |
| JPAC389 | 16        | 20      | 4             | 1488        | 259                                   | 754                     | 60                                     | 214                                   | 39                                    | 8.2                                   | 27                                    | 3.4                                   | 17.4                                  | 3.1                                   | 7.5                                   | 1                                     | 5.6                                   | 0.6                                   | 89                                   | 31                                    | 27        | 2        |
| JPAC389 | 20        | 24      | 4             | 1992        | 415                                   | 926                     | 101                                    | 370                                   | 63                                    | 13.1                                  | 33                                    | 3.6                                   | 14.2                                  | 1.8                                   | 3.8                                   | 0.4                                   | 2.3                                   | 0.3                                   | 44                                   | 42                                    | 43        | 2        |
| JPAC389 | 24        | 28      | 4             | 2298        | 435                                   | 1040                    | 120                                    | 457                                   | 78                                    | 15.5                                  | 44                                    | 4.9                                   | 20.8                                  | 3.2                                   | 6.9                                   | 0.7                                   | 4                                     | 0.4                                   | 68                                   | 44                                    | 29        | 3        |
| JPAC389 | 28        | 32      | 4             | 2127        | 430                                   | 1026                    | 110                                    | 392                                   | 54                                    | 10.6                                  | 29                                    | 3.2                                   | 13.5                                  | 2.2                                   | 5.2                                   | 0.6                                   | 3.3                                   | 0.4                                   | 48                                   | 38                                    | 28        | 5        |
| JPAC389 | 32        | 33      | 1             | 794         | 151                                   | 335                     | 39                                     | 147                                   | 24                                    | 5.3                                   | 17                                    | 2.1                                   | 11.6                                  | 2.3                                   | 5.4                                   | 0.6                                   | 3.4                                   | 0.4                                   | 50                                   | 19                                    | 15        | 3        |
| JPAC390 | 16        | 20      | 4             | 125         | 36                                    | 52                      | 5                                      | 16                                    | 2                                     | 0.5                                   | 2                                     | 0.3                                   | 1.6                                   | 0.3                                   | 0.9                                   | 0.1                                   | 1.1                                   | 0.2                                   | 7                                    | 40                                    | 26        | 3        |
| JPAC390 | 20        | 24      | 4             | 661         | 118                                   | 354                     | 32                                     | 108                                   | 15                                    | 2.9                                   | 7                                     | 0.8                                   | 3.7                                   | 0.6                                   | 1.7                                   | 0.3                                   | 1.8                                   | 0.2                                   | 16                                   | 52                                    | 33        | 4        |
| JPAC390 | 24        | 28      | 4             | 1896        | 340                                   | 996                     | 85                                     | 313                                   | 47                                    | 10.2                                  | 27                                    | 3.3                                   | 14.2                                  | 2.1                                   | 5.2                                   | 0.7                                   | 4.1                                   | 0.5                                   | 48                                   | 56                                    | 39        | 5        |
| JPAC390 | 28        | 32      | 4             | 1815        | 330                                   | 893                     | 88                                     | 310                                   | 51                                    | 10.3                                  | 29                                    | 3.6                                   | 16.6                                  | 2.9                                   | 6.3                                   | 0.8                                   | 4.8                                   | 0.5                                   | 70                                   | 49                                    | 35        | 5        |
| JPAC390 | 32        | 36      | 4             | 1402        | 212                                   | 700                     | 65                                     | 251                                   | 42                                    | 9.3                                   | 28                                    | 3.6                                   | 15.6                                  | 2.6                                   | 5.5                                   | 0.6                                   | 3.4                                   | 0.4                                   | 64                                   | 37                                    | 25        | 3        |
| JPAC390 | 36        | 40      | 4             | 1609        | 226                                   | 741                     | 72                                     | 286                                   | 49                                    | 11.2                                  | 35                                    | 4.6                                   | 21.9                                  | 4.1                                   | 11.3                                  | 1.5                                   | 10                                    | 1.7                                   | 133                                  | 36                                    | 20        | 4        |
| JPAC390 | 40        | 44      | 4             | 991         | 145                                   | 472                     | 46                                     | 181                                   | 33                                    | 7.1                                   | 20                                    | 2.6                                   | 12.3                                  | 2.2                                   | 5.5                                   | 0.8                                   | 5.6                                   | 0.7                                   | 58                                   | 39                                    | 34        | 6        |
| JPAC390 | 44        | 48      | 4             | 1795        | 260                                   | 716                     | 91                                     | 378                                   | 68                                    | 14.7                                  | 45                                    | 5.7                                   | 27.8                                  | 5                                     | 13.3                                  | 1.9                                   | 13                                    | 2                                     | 154                                  | 32                                    | 21        | 5        |
| JPAC390 | 48        | 52      | 4             | 1101        | 185                                   | 453                     | 55                                     | 206                                   | 34                                    | 7.8                                   | 24                                    | 3.1                                   | 15.3                                  | 2.8                                   | 7.8                                   | 1.1                                   | 7.2                                   | 1                                     | 97                                   | 34                                    | 16        | 4        |
| JPAC390 | 52        | 56      | 4             | 1103        | 191                                   | 462                     | 57                                     | 211                                   | 34                                    | 7.7                                   | 23                                    | 3                                     | 13.9                                  | 2.6                                   | 6.9                                   | 1                                     | 5.5                                   | 0.9                                   | 83                                   | 33                                    | 16        | 4        |
| JPAC390 | 56        | 60      | 4             | 1039        | 175                                   | 434                     | 53                                     | 198                                   | 33                                    | 6.9                                   | 22                                    | 2.8                                   | 13.9                                  | 2.5                                   | 6.7                                   | 0.9                                   | 5.6                                   | 0.8                                   | 84                                   | 28                                    | 15        | 5        |
| JPAC390 | 60        | 62      | 2             | 965         | 148                                   | 403                     | 49                                     | 187                                   | 32                                    | 7                                     | 22                                    | 2.9                                   | 14.8                                  | 2.7                                   | 6.8                                   | 0.9                                   | 5.7                                   | 0.9                                   | 83                                   | 25                                    | 13        | 7        |
| JPAC391 | 12        | 17      | 5             | 140         | 38                                    | 51                      | 6                                      | 22                                    | 3                                     | 0.8                                   | 3                                     | 0.4                                   | 1.8                                   | 0.3                                   | 1.1                                   | 0.2                                   | 1.5                                   | 0.2                                   | 11                                   | 43                                    | 21        | 3        |
| JPAC391 | 17        | 20      | 3             | 703         | 180                                   | 258                     | 40                                     | 136                                   | 21                                    | 4.1                                   | 12                                    | 1.5                                   | 7.6                                   | 1.3                                   | 3                                     | 0.4                                   | 2.2                                   | 0.3                                   | 36                                   | 53                                    | 37        | 2        |
| JPAC391 | 20        | 24      | 4             | 731         | 203                                   | 247                     | 43                                     | 143                                   | 20                                    | 4.1                                   | 13                                    | 1.6                                   | 7.8                                   | 1.3                                   | 3.4                                   | 0.4                                   | 2.3                                   | 0.3                                   | 40                                   | 50                                    | 52        | 2        |
| JPAC391 | 24        | 28      | 4             | 874         | 258                                   | 271                     | 53                                     | 177                                   | 26                                    | 5.2                                   | 16                                    | 1.9                                   | 9.2                                   | 1.5                                   | 4                                     | 0.5                                   | 2.8                                   | 0.3                                   | 47                                   | 48                                    | 47        | 2        |
| JPAC391 | 28        | 32      | 4             | 762         | 237                                   | 216                     | 49                                     | 160                                   | 22                                    | 4.9                                   | 14                                    | 1.7                                   | 8.5                                   | 1.4                                   | 3.2                                   | 0.4                                   | 2.3                                   | 0.3                                   | 41                                   | 56                                    | 34        | 3        |
| JPAC391 | 32        | 36      | 4             | 657         | 197                                   | 225                     | 40                                     | 127                                   | 17                                    | 3.4                                   | 10                                    | 1.1                                   | 5.5                                   | 0.9                                   | 2                                     | 0.3                                   | 1.6                                   | 0.2                                   | 27                                   | 33                                    | 33        | 2        |
| JPAC391 | 36        | 40      | 4             | 757         | 185                                   | 367                     | 37                                     | 114                                   | 14                                    | 2.6                                   | 7                                     | 0.9                                   | 4                                     | 0.7                                   | 1.8                                   | 0.2                                   | 1.8                                   | 0.2                                   | 22                                   | 28                                    | 49        | 2        |
| JPAC391 | 40        | 44      | 4             | 2507        | 369                                   | 1339                    | 119                                    | 435                                   | 66                                    | 12.9                                  | 35                                    | 4.2                                   | 19.1                                  | 3.1                                   | 7.9                                   | 1.1                                   | 7                                     | 0.9                                   | 89                                   | 42                                    | 37        | 6        |
| JPAC391 | 44        | 48      | 4             | 1597        | 222                                   | 840                     | 65                                     | 243                                   | 38                                    | 8.4                                   | 29                                    | 3.6                                   | 18.6                                  | 3.4                                   | 9                                     | 1.2                                   | 8.2                                   | 1.1                                   | 108                                  | 26                                    | 35        | 4        |
| JPAC391 | 48        | 50      | 2             | 917         | 154                                   | 458                     | 36                                     | 127                                   | 20                                    | 4.1                                   | 15                                    | 2                                     | 11.1                                  | 2.2                                   | 6.2                                   | 0.8                                   | 5.3                                   | 0.7                                   | 75                                   | 27                                    | 37        | 3        |
| JPAC392 | 4         | 8       | 4             | 507         | 89                                    | 256                     | 22                                     | 75                                    | 12                                    | 2.6                                   | 8                                     | 1.1                                   | 6.1                                   | 1.1                                   | 3                                     | 0.4                                   | 2.7                                   | 0.4                                   | 30                                   | 29                                    | 27        | 2        |
| JPAC392 | 8         | 12      | 4             | 939         | 262                                   | 380                     | 50                                     | 158                                   | 21                                    | 4.1                                   | 13                                    | 1.5                                   | 6.8                                   | 1.1                                   | 2.8                                   | 0.4                                   | 2                                     | 0.2                                   | 38                                   | 47                                    | 30        | 2        |
| JPAC392 | 12        | 16      | 4             | 1793        | 403                                   | 841                     | 88                                     | 293                                   | 43                                    | 9.4                                   | 28                                    | 3.4                                   | 14.6                                  | 2.3                                   | 4.9                                   | 0.6                                   | 2.8                                   | 0.4                                   | 59                                   | 44                                    | 30        | 2        |
| JPAC392 | 16        | 20      | 4             | 2235        | 473                                   | 1033                    | 111                                    | 372                                   | 52                                    | 10.9                                  | 33                                    | 4.1                                   | 21.7                                  | 3.8                                   | 9.1                                   | 1.1                                   | 6.1                                   | 0.6                                   | 104                                  | 47                                    | 28        | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC392 | 20        | 24      | 4             | 2053        | 396                                   | 962                     | 107                                    | 371                                   | 50                                    | 10.6                                  | 31                                    | 3.8                                   | 17.3                                  | 2.9                                   | 6.7                                   | 0.9                                   | 5                                     | 0.6                                   | 89                                   | 45                                    | 28        | 4        |
| JPAC392 | 24        | 28      | 4             | 1808        | 365                                   | 827                     | 94                                     | 339                                   | 50                                    | 9.8                                   | 27                                    | 3.1                                   | 14.2                                  | 2.3                                   | 6.2                                   | 0.7                                   | 4                                     | 0.5                                   | 65                                   | 42                                    | 28        | 4        |
| JPAC392 | 28        | 32      | 4             | 1868        | 398                                   | 845                     | 90                                     | 336                                   | 55                                    | 10.9                                  | 33                                    | 3.5                                   | 15.8                                  | 2.7                                   | 6.3                                   | 0.7                                   | 3.7                                   | 0.4                                   | 69                                   | 49                                    | 27        | 5        |
| JPAC392 | 32        | 36      | 4             | 2264        | 447                                   | 1012                    | 117                                    | 427                                   | 70                                    | 14.1                                  | 39                                    | 4.4                                   | 20.5                                  | 3.3                                   | 8.3                                   | 1.1                                   | 6                                     | 0.9                                   | 94                                   | 46                                    | 26        | 6        |
| JPAC392 | 36        | 40      | 4             | 2503        | 419                                   | 1139                    | 129                                    | 488                                   | 80                                    | 16.6                                  | 48                                    | 5.3                                   | 25.9                                  | 4.4                                   | 11                                    | 1.4                                   | 8.6                                   | 1.3                                   | 127                                  | 40                                    | 23        | 5        |
| JPAC392 | 40        | 44      | 4             | 1512        | 276                                   | 626                     | 77                                     | 289                                   | 47                                    | 10.2                                  | 32                                    | 3.7                                   | 18                                    | 3.4                                   | 9.5                                   | 1.3                                   | 7.4                                   | 1.2                                   | 111                                  | 35                                    | 21        | 3        |
| JPAC392 | 44        | 48      | 4             | 1374        | 264                                   | 583                     | 70                                     | 260                                   | 42                                    | 8.6                                   | 26                                    | 2.9                                   | 14.7                                  | 2.6                                   | 7                                     | 0.9                                   | 5.6                                   | 0.9                                   | 86                                   | 34                                    | 20        | 2        |
| JPAC392 | 48        | 52      | 4             | 1198        | 231                                   | 515                     | 62                                     | 229                                   | 36                                    | 7.9                                   | 23                                    | 2.6                                   | 13                                    | 2.2                                   | 6.2                                   | 0.8                                   | 4.2                                   | 0.7                                   | 67                                   | 34                                    | 16        | 2        |
| JPAC392 | 52        | 56      | 4             | 1101        | 208                                   | 470                     | 57                                     | 212                                   | 33                                    | 7.4                                   | 22                                    | 2.5                                   | 11.6                                  | 2.2                                   | 5.9                                   | 0.7                                   | 4.4                                   | 0.6                                   | 65                                   | 31                                    | 15        | 2        |
| JPAC392 | 56        | 60      | 4             | 1139        | 217                                   | 483                     | 58                                     | 220                                   | 36                                    | 7.4                                   | 23                                    | 2.6                                   | 13.1                                  | 2.2                                   | 5.7                                   | 0.8                                   | 4.2                                   | 0.6                                   | 66                                   | 34                                    | 16        | 2        |
| JPAC392 | 60        | 64      | 4             | 1085        | 206                                   | 464                     | 55                                     | 208                                   | 34                                    | 7.1                                   | 21                                    | 2.5                                   | 12.3                                  | 2.1                                   | 5.7                                   | 0.7                                   | 4.2                                   | 0.6                                   | 62                                   | 31                                    | 15        | 2        |
| JPAC392 | 64        | 68      | 4             | 1124        | 215                                   | 477                     | 58                                     | 218                                   | 35                                    | 7.5                                   | 22                                    | 2.5                                   | 12.5                                  | 2.2                                   | 5.6                                   | 0.7                                   | 3.9                                   | 0.6                                   | 64                                   | 32                                    | 15        | 2        |
| JPAC392 | 68        | 69      | 1             | 808         | 148                                   | 350                     | 42                                     | 154                                   | 26                                    | 5.2                                   | 16                                    | 1.7                                   | 8.8                                   | 1.6                                   | 4.5                                   | 0.5                                   | 3.2                                   | 0.5                                   | 47                                   | 37                                    | 11        | 3        |
| JPAC393 | 8         | 12      | 4             | 339         | 108                                   | 105                     | 19                                     | 62                                    | 10                                    | 1.8                                   | 6                                     | 0.8                                   | 3.9                                   | 0.7                                   | 1.7                                   | 0.2                                   | 1.2                                   | 0.2                                   | 20                                   | 39                                    | 23        | 2        |
| JPAC393 | 12        | 16      | 4             | 553         | 207                                   | 161                     | 34                                     | 100                                   | 14                                    | 3                                     | 7                                     | 0.8                                   | 4                                     | 0.6                                   | 1.5                                   | 0.2                                   | 1                                     | 0.2                                   | 18                                   | 51                                    | 33        | 2        |
| JPAC393 | 16        | 20      | 4             | 1670        | 481                                   | 447                     | 116                                    | 405                                   | 66                                    | 12.8                                  | 38                                    | 4.2                                   | 18.8                                  | 2.9                                   | 6.6                                   | 0.8                                   | 3.6                                   | 0.5                                   | 68                                   | 49                                    | 40        | 3        |
| JPAC393 | 20        | 24      | 4             | 2975        | 768                                   | 995                     | 185                                    | 657                                   | 105                                   | 19.6                                  | 61                                    | 6.8                                   | 31.9                                  | 5                                     | 11.5                                  | 1.3                                   | 6.6                                   | 0.8                                   | 121                                  | 42                                    | 52        | 4        |
| JPAC393 | 24        | 28      | 4             | 2352        | 552                                   | 891                     | 144                                    | 527                                   | 83                                    | 16                                    | 44                                    | 4.8                                   | 20.1                                  | 2.8                                   | 6.1                                   | 0.6                                   | 3.5                                   | 0.4                                   | 58                                   | 45                                    | 44        | 4        |
| JPAC393 | 28        | 32      | 4             | 1835        | 368                                   | 919                     | 85                                     | 295                                   | 48                                    | 9.4                                   | 28                                    | 3.1                                   | 13.6                                  | 2.4                                   | 5.1                                   | 0.6                                   | 3.5                                   | 0.4                                   | 55                                   | 40                                    | 38        | 5        |
| JPAC393 | 32        | 36      | 4             | 2938        | 613                                   | 1456                    | 144                                    | 484                                   | 77                                    | 15.3                                  | 42                                    | 4.4                                   | 19.7                                  | 3                                     | 6.9                                   | 0.8                                   | 4.1                                   | 0.6                                   | 69                                   | 40                                    | 38        | 7        |
| JPAC393 | 36        | 40      | 4             | 5162        | 1075                                  | 2402                    | 278                                    | 990                                   | 151                                   | 28.6                                  | 76                                    | 7.7                                   | 32.5                                  | 4.5                                   | 9.3                                   | 1                                     | 5.4                                   | 0.6                                   | 101                                  | 41                                    | 46        | 9        |
| JPAC393 | 40        | 44      | 4             | 3702        | 677                                   | 1744                    | 190                                    | 756                                   | 124                                   | 24                                    | 65                                    | 6.7                                   | 28.6                                  | 3.8                                   | 7.4                                   | 0.7                                   | 4.6                                   | 0.5                                   | 71                                   | 38                                    | 46        | 6        |
| JPAC393 | 44        | 48      | 4             | 2365        | 434                                   | 1146                    | 115                                    | 453                                   | 78                                    | 15.2                                  | 41                                    | 4.1                                   | 17.4                                  | 2.5                                   | 5.2                                   | 0.5                                   | 3.3                                   | 0.4                                   | 51                                   | 43                                    | 46        | 5        |
| JPAC393 | 48        | 52      | 4             | 2899        | 547                                   | 1321                    | 150                                    | 568                                   | 93                                    | 18.5                                  | 56                                    | 6                                     | 26.3                                  | 4                                     | 9.3                                   | 1                                     | 5.3                                   | 0.6                                   | 94                                   | 41                                    | 48        | 5        |
| JPAC393 | 52        | 56      | 4             | 3195        | 545                                   | 1474                    | 156                                    | 625                                   | 110                                   | 21.5                                  | 66                                    | 6.8                                   | 31.4                                  | 4.9                                   | 11.7                                  | 1.3                                   | 7.2                                   | 0.9                                   | 133                                  | 36                                    | 51        | 5        |
| JPAC393 | 56        | 60      | 4             | 2348        | 437                                   | 1002                    | 122                                    | 477                                   | 84                                    | 16.7                                  | 51                                    | 5.6                                   | 24                                    | 3.8                                   | 9                                     | 1.1                                   | 5.8                                   | 0.7                                   | 107                                  | 32                                    | 32        | 4        |
| JPAC393 | 60        | 64      | 4             | 2506        | 467                                   | 1092                    | 132                                    | 509                                   | 89                                    | 17.4                                  | 53                                    | 5.7                                   | 24.2                                  | 3.6                                   | 9.2                                   | 1.1                                   | 5.4                                   | 0.8                                   | 98                                   | 32                                    | 31        | 5        |
| JPAC393 | 64        | 68      | 4             | 1744        | 300                                   | 792                     | 87                                     | 329                                   | 56                                    | 11.6                                  | 35                                    | 3.8                                   | 18                                    | 3.1                                   | 7.5                                   | 1.1                                   | 5.6                                   | 0.9                                   | 94                                   | 33                                    | 31        | 4        |
| JPAC393 | 68        | 70      | 2             | 1293        | 238                                   | 554                     | 69                                     | 255                                   | 44                                    | 8.8                                   | 26                                    | 3                                     | 14                                    | 2.2                                   | 5.8                                   | 0.7                                   | 3.9                                   | 0.5                                   | 68                                   | 29                                    | 19        | 3        |
| JPAC393 | 70        | 72      | 2             | 1289        | 236                                   | 549                     | 68                                     | 259                                   | 43                                    | 8.8                                   | 27                                    | 3                                     | 13.8                                  | 2.3                                   | 5.8                                   | 0.7                                   | 4.3                                   | 0.5                                   | 68                                   | 27                                    | 19        | 3        |
| JPAC394 | 16        | 20      | 4             | 292         | 50                                    | 167                     | 11                                     | 38                                    | 5                                     | 1.2                                   | 3                                     | 0.5                                   | 2.3                                   | 0.4                                   | 1.2                                   | 0.2                                   | 1.4                                   | 0.2                                   | 11                                   | 53                                    | 45        | 3        |
| JPAC394 | 20        | 24      | 4             | 1412        | 256                                   | 796                     | 61                                     | 206                                   | 27                                    | 5.7                                   | 15                                    | 1.8                                   | 7.8                                   | 1.3                                   | 3                                     | 0.4                                   | 2.6                                   | 0.3                                   | 29                                   | 63                                    | 54        | 4        |
| JPAC394 | 24        | 28      | 4             | 1536        | 247                                   | 846                     | 66                                     | 247                                   | 38                                    | 8                                     | 22                                    | 2.4                                   | 11.5                                  | 1.8                                   | 4.4                                   | 0.6                                   | 3.7                                   | 0.5                                   | 37                                   | 56                                    | 44        | 4        |
| JPAC394 | 28        | 32      | 4             | 1242        | 240                                   | 564                     | 65                                     | 247                                   | 38                                    | 8.2                                   | 22                                    | 2.5                                   | 10.3                                  | 1.6                                   | 3.4                                   | 0.5                                   | 2.5                                   | 0.3                                   | 37                                   | 22                                    | 18        | 2        |
| JPAC394 | 32        | 36      | 4             | 1099        | 179                                   | 450                     | 52                                     | 220                                   | 36                                    | 9.3                                   | 26                                    | 3.3                                   | 16.8                                  | 3                                     | 7.9                                   | 1.1                                   | 5.3                                   | 0.6                                   | 89                                   | 34                                    | 18        | 2        |
| JPAC394 | 36        | 40      | 4             | 2472        | 339                                   | 1351                    | 101                                    | 388                                   | 61                                    | 13.5                                  | 41                                    | 5.1                                   | 24.7                                  | 4.2                                   | 10.3                                  | 1.4                                   | 7                                     | 0.9                                   | 125                                  | 45                                    | 22        | 4        |
| JPAC394 | 40        | 44      | 4             | 2390        | 342                                   | 1296                    | 103                                    | 399                                   | 63                                    | 12.6                                  | 38                                    | 4.6                                   | 20.2                                  | 3.5                                   | 7.9                                   | 1                                     | 5.5                                   | 0.7                                   | 93                                   | 45                                    | 39        | 6        |
| JPAC394 | 44        | 48      | 4             | 2358        | 348                                   | 1228                    | 106                                    | 406                                   | 66                                    | 13.2                                  | 41                                    | 4.8                                   | 22.1                                  | 3.8                                   | 8.6                                   | 1.1                                   | 6.7                                   | 0.9                                   | 103                                  | 48                                    | 38        | 8        |
| JPAC394 | 48        | 52      | 4             | 2161        | 327                                   | 1135                    | 98                                     | 373                                   | 60                                    | 12.2                                  | 35                                    | 4.2                                   | 18.8                                  | 3                                     | 7.1                                   | 1                                     | 5.3                                   | 0.8                                   | 81                                   | 51                                    | 40        | 8        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC394 | 52        | 56      | 4             | 1607        | 243                                   | 837                     | 75                                     | 285                                   | 44                                    | 9.6                                   | 28                                    | 3.2                                   | 15.1                                  | 2.3                                   | 5.1                                   | 0.7                                   | 3.8                                   | 0.5                                   | 57                                   | 44                                    | 28        | 8        |
| JPAC394 | 56        | 60      | 4             | 1624        | 262                                   | 806                     | 82                                     | 303                                   | 47                                    | 10.1                                  | 28                                    | 3.3                                   | 14.7                                  | 2.3                                   | 5                                     | 0.6                                   | 3.4                                   | 0.5                                   | 57                                   | 50                                    | 30        | 8        |
| JPAC394 | 60        | 64      | 4             | 1178        | 203                                   | 534                     | 61                                     | 227                                   | 36                                    | 7.9                                   | 23                                    | 2.7                                   | 12.7                                  | 2.2                                   | 5.2                                   | 0.7                                   | 3.8                                   | 0.6                                   | 59                                   | 50                                    | 30        | 8        |
| JPAC394 | 64        | 68      | 4             | 1228        | 219                                   | 563                     | 64                                     | 240                                   | 36                                    | 7.7                                   | 23                                    | 2.7                                   | 12.5                                  | 2.1                                   | 4.5                                   | 0.6                                   | 3.5                                   | 0.4                                   | 50                                   | 46                                    | 29        | 8        |
| JPAC394 | 68        | 72      | 4             | 972         | 201                                   | 436                     | 49                                     | 170                                   | 26                                    | 5.5                                   | 18                                    | 2.1                                   | 10.1                                  | 1.7                                   | 4.1                                   | 0.6                                   | 3.2                                   | 0.4                                   | 46                                   | 46                                    | 39        | 9        |
| JPAC394 | 72        | 76      | 4             | 2394        | 362                                   | 1151                    | 117                                    | 457                                   | 76                                    | 16.3                                  | 50                                    | 5.9                                   | 26.2                                  | 4.3                                   | 9.7                                   | 1.1                                   | 5.8                                   | 0.7                                   | 111                                  | 46                                    | 34        | 8        |
| JPAC394 | 76        | 80      | 4             | 1417        | 238                                   | 692                     | 67                                     | 252                                   | 40                                    | 8.5                                   | 25                                    | 3                                     | 13.8                                  | 2.5                                   | 6                                     | 0.7                                   | 3.9                                   | 0.5                                   | 65                                   | 49                                    | 28        | 7        |
| JPAC394 | 80        | 84      | 4             | 1208        | 201                                   | 582                     | 59                                     | 223                                   | 35                                    | 7.5                                   | 22                                    | 2.7                                   | 12.3                                  | 2                                     | 5.1                                   | 0.6                                   | 4                                     | 0.5                                   | 51                                   | 48                                    | 29        | 6        |
| JPAC394 | 84        | 88      | 4             | 1362        | 243                                   | 608                     | 70                                     | 260                                   | 42                                    | 9.1                                   | 28                                    | 3.4                                   | 15.9                                  | 2.7                                   | 6.4                                   | 0.8                                   | 5.2                                   | 0.7                                   | 67                                   | 42                                    | 25        | 5        |
| JPAC394 | 88        | 90      | 2             | 1419        | 257                                   | 622                     | 73                                     | 275                                   | 44                                    | 9.4                                   | 30                                    | 3.6                                   | 16.9                                  | 3                                     | 6.8                                   | 1                                     | 5.6                                   | 0.8                                   | 72                                   | 42                                    | 26        | 4        |
| JPAC394 | 90        | 91      | 1             | 1548        | 272                                   | 706                     | 76                                     | 292                                   | 47                                    | 10.2                                  | 31                                    | 3.8                                   | 17.1                                  | 3                                     | 7                                     | 0.9                                   | 6                                     | 0.7                                   | 76                                   | 47                                    | 28        | 5        |
| JPAC395 | 8         | 12      | 4             | 502         | 100                                   | 224                     | 24                                     | 87                                    | 13                                    | 2.7                                   | 9                                     | 1.2                                   | 5.7                                   | 1                                     | 3                                     | 0.4                                   | 2.3                                   | 0.3                                   | 29                                   | 36                                    | 25        | 2        |
| JPAC395 | 12        | 16      | 4             | 471         | 143                                   | 204                     | 21                                     | 63                                    | 9                                     | 2                                     | 6                                     | 0.7                                   | 3.6                                   | 0.6                                   | 1.5                                   | 0.2                                   | 1.3                                   | 0.2                                   | 17                                   | 54                                    | 37        | 3        |
| JPAC395 | 16        | 20      | 4             | 1343        | 128                                   | 1082                    | 22                                     | 67                                    | 11                                    | 2.3                                   | 6                                     | 0.9                                   | 4.2                                   | 0.7                                   | 1.9                                   | 0.3                                   | 2.2                                   | 0.3                                   | 14                                   | 73                                    | 54        | 5        |
| JPAC395 | 20        | 24      | 4             | 1761        | 315                                   | 715                     | 108                                    | 415                                   | 68                                    | 14.2                                  | 37                                    | 4.3                                   | 18                                    | 2.9                                   | 6.4                                   | 0.9                                   | 5.6                                   | 0.8                                   | 51                                   | 95                                    | 61        | 9        |
| JPAC395 | 24        | 28      | 4             | 844         | 196                                   | 349                     | 43                                     | 150                                   | 24                                    | 5.6                                   | 16                                    | 2.2                                   | 9.3                                   | 1.6                                   | 3.8                                   | 0.5                                   | 3.1                                   | 0.5                                   | 40                                   | 79                                    | 70        | 9        |
| JPAC395 | 28        | 32      | 4             | 1151        | 362                                   | 412                     | 66                                     | 206                                   | 28                                    | 5.9                                   | 16                                    | 2                                     | 8                                     | 1.3                                   | 3.2                                   | 0.4                                   | 2.3                                   | 0.3                                   | 38                                   | 56                                    | 56        | 5        |
| JPAC395 | 32        | 36      | 4             | 550         | 168                                   | 201                     | 30                                     | 97                                    | 13                                    | 2.7                                   | 8                                     | 1                                     | 5                                     | 0.8                                   | 1.7                                   | 0.2                                   | 1.5                                   | 0.2                                   | 21                                   | 49                                    | 39        | 2        |
| JPAC395 | 36        | 40      | 4             | 231         | 70                                    | 84                      | 13                                     | 39                                    | 5                                     | 1.1                                   | 3                                     | 0.5                                   | 2.2                                   | 0.4                                   | 1                                     | 0.1                                   | 0.9                                   | 0.1                                   | 11                                   | 32                                    | 28        | 1        |
| JPAC395 | 40        | 44      | 4             | 362         | 78                                    | 121                     | 23                                     | 86                                    | 12                                    | 2.7                                   | 8                                     | 1                                     | 4.3                                   | 0.7                                   | 2                                     | 0.3                                   | 1.8                                   | 0.3                                   | 23                                   | 39                                    | 35        | 3        |
| JPAC395 | 44        | 48      | 4             | 539         | 86                                    | 290                     | 19                                     | 73                                    | 12                                    | 2.8                                   | 10                                    | 1.2                                   | 6.1                                   | 1.1                                   | 3.1                                   | 0.5                                   | 3.1                                   | 0.5                                   | 33                                   | 45                                    | 23        | 5        |
| JPAC395 | 48        | 52      | 4             | 1842        | 362                                   | 609                     | 114                                    | 454                                   | 74                                    | 15.9                                  | 44                                    | 5.3                                   | 23.6                                  | 4.1                                   | 10.3                                  | 1.5                                   | 9.2                                   | 1.3                                   | 114                                  | 43                                    | 21        | 8        |
| JPAC395 | 52        | 56      | 4             | 909         | 65                                    | 611                     | 23                                     | 104                                   | 20                                    | 4.7                                   | 15                                    | 2                                     | 9.8                                   | 1.5                                   | 4.3                                   | 0.6                                   | 4                                     | 0.6                                   | 44                                   | 38                                    | 14        | 9        |
| JPAC395 | 56        | 60      | 4             | 1743        | 262                                   | 878                     | 76                                     | 304                                   | 53                                    | 11.3                                  | 33                                    | 4.2                                   | 19.2                                  | 3.1                                   | 8.1                                   | 1.1                                   | 6.6                                   | 1                                     | 83                                   | 46                                    | 24        | 12       |
| JPAC395 | 60        | 64      | 4             | 1216        | 234                                   | 461                     | 68                                     | 265                                   | 43                                    | 10.4                                  | 29                                    | 3.3                                   | 16.8                                  | 2.7                                   | 7                                     | 0.9                                   | 6                                     | 0.8                                   | 71                                   | 39                                    | 28        | 6        |
| JPAC395 | 64        | 68      | 4             | 1391        | 265                                   | 543                     | 77                                     | 295                                   | 47                                    | 10.3                                  | 31                                    | 3.8                                   | 18.6                                  | 3.1                                   | 7.9                                   | 1.1                                   | 6.7                                   | 1                                     | 81                                   | 40                                    | 25        | 6        |
| JPAC395 | 68        | 72      | 4             | 1094        | 178                                   | 511                     | 52                                     | 201                                   | 32                                    | 7.1                                   | 20                                    | 2.5                                   | 13.1                                  | 2.2                                   | 6                                     | 0.7                                   | 4.6                                   | 0.6                                   | 64                                   | 40                                    | 22        | 5        |
| JPAC395 | 72        | 76      | 4             | 1198        | 213                                   | 495                     | 63                                     | 243                                   | 39                                    | 8.5                                   | 24                                    | 3                                     | 14.7                                  | 2.5                                   | 6.9                                   | 0.8                                   | 4.8                                   | 0.7                                   | 80                                   | 35                                    | 19        | 4        |
| JPAC395 | 76        | 80      | 4             | 972         | 167                                   | 419                     | 50                                     | 188                                   | 29                                    | 6.3                                   | 20                                    | 2.4                                   | 11.7                                  | 2                                     | 5.7                                   | 0.7                                   | 4.1                                   | 0.6                                   | 66                                   | 31                                    | 16        | 4        |
| JPAC395 | 80        | 83      | 3             | 970         | 168                                   | 421                     | 50                                     | 189                                   | 30                                    | 6.3                                   | 19                                    | 2.4                                   | 11.5                                  | 1.9                                   | 5.6                                   | 0.7                                   | 3.8                                   | 0.5                                   | 61                                   | 31                                    | 16        | 4        |
| JPAC396 | 8         | 12      | 4             | 470         | 114                                   | 216                     | 21                                     | 71                                    | 10                                    | 2.1                                   | 7                                     | 0.8                                   | 3.9                                   | 0.7                                   | 1.9                                   | 0.3                                   | 1.5                                   | 0.2                                   | 21                                   | 42                                    | 30        | 3        |
| JPAC396 | 12        | 16      | 4             | 1468        | 284                                   | 872                     | 61                                     | 190                                   | 22                                    | 4                                     | 10                                    | 1                                     | 4.4                                   | 0.7                                   | 1.8                                   | 0.2                                   | 1.2                                   | 0.2                                   | 17                                   | 59                                    | 38        | 5        |
| JPAC396 | 16        | 20      | 4             | 1905        | 498                                   | 864                     | 107                                    | 342                                   | 38                                    | 6.3                                   | 15                                    | 1.6                                   | 7                                     | 1                                     | 2.4                                   | 0.3                                   | 1.7                                   | 0.2                                   | 22                                   | 53                                    | 36        | 5        |
| JPAC396 | 20        | 24      | 4             | 1676        | 544                                   | 579                     | 106                                    | 323                                   | 40                                    | 8.2                                   | 20                                    | 2.3                                   | 10.9                                  | 1.7                                   | 4.1                                   | 0.5                                   | 3.3                                   | 0.5                                   | 33                                   | 62                                    | 41        | 5        |
| JPAC396 | 24        | 28      | 4             | 2370        | 513                                   | 997                     | 122                                    | 468                                   | 72                                    | 15.2                                  | 43                                    | 4.9                                   | 21.2                                  | 3.5                                   | 8.6                                   | 1                                     | 5.1                                   | 0.7                                   | 96                                   | 68                                    | 37        | 7        |
| JPAC396 | 28        | 32      | 4             | 2900        | 608                                   | 1226                    | 149                                    | 563                                   | 86                                    | 19                                    | 57                                    | 6.1                                   | 30.3                                  | 5                                     | 11.9                                  | 1.2                                   | 6.2                                   | 0.9                                   | 131                                  | 52                                    | 27        | 5        |
| JPAC396 | 32        | 36      | 4             | 2822        | 504                                   | 1216                    | 153                                    | 614                                   | 98                                    | 20.3                                  | 59                                    | 6.1                                   | 26.7                                  | 4.1                                   | 9.4                                   | 0.9                                   | 4.6                                   | 0.5                                   | 105                                  | 45                                    | 32        | 5        |
| JPAC396 | 36        | 40      | 4             | 1852        | 300                                   | 835                     | 89                                     | 369                                   | 59                                    | 12.3                                  | 39                                    | 4.2                                   | 20.3                                  | 3.5                                   | 8.7                                   | 0.9                                   | 4.6                                   | 0.6                                   | 107                                  | 34                                    | 27        | 5        |
| JPAC396 | 40        | 44      | 4             | 2672        | 443                                   | 1235                    | 130                                    | 533                                   | 83                                    | 17.4                                  | 53                                    | 5.6                                   | 24.9                                  | 4.1                                   | 10                                    | 1                                     | 6                                     | 0.7                                   | 126                                  | 43                                    | 22        | 8        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC396 | 44        | 48      | 4             | 1796        | 312                                   | 780                     | 90                                     | 367                                   | 60                                    | 12.6                                  | 38                                    | 4                                     | 18.3                                  | 3                                     | 7.7                                   | 0.9                                   | 5.3                                   | 0.8                                   | 96                                   | 31                                    | 19        | 4        |
| JPAC396 | 48        | 52      | 4             | 1366        | 253                                   | 574                     | 71                                     | 280                                   | 44                                    | 10                                    | 28                                    | 3                                     | 14.2                                  | 2.4                                   | 6                                     | 0.7                                   | 4                                     | 0.6                                   | 77                                   | 29                                    | 17        | 2        |
| JPAC396 | 52        | 56      | 4             | 1367        | 258                                   | 568                     | 71                                     | 280                                   | 45                                    | 9.9                                   | 28                                    | 3.2                                   | 14.5                                  | 2.4                                   | 6                                     | 0.7                                   | 3.9                                   | 0.7                                   | 77                                   | 28                                    | 17        | 2        |
| JPAC396 | 56        | 58      | 2             | 829         | 150                                   | 354                     | 42                                     | 160                                   | 25                                    | 5.4                                   | 17                                    | 2.1                                   | 9.4                                   | 1.7                                   | 4.6                                   | 0.6                                   | 3                                     | 0.4                                   | 56                                   | 24                                    | 17        | 2        |
| JPAC397 | 12        | 16      | 4             | 486         | 92                                    | 318                     | 14                                     | 38                                    | 5                                     | 1                                     | 3                                     | 0.4                                   | 2                                     | 0.4                                   | 1.1                                   | 0.1                                   | 1.2                                   | 0.2                                   | 10                                   | 65                                    | 42        | 4        |
| JPAC397 | 16        | 20      | 4             | 1372        | 231                                   | 899                     | 48                                     | 142                                   | 16                                    | 3.1                                   | 8                                     | 1                                     | 4.2                                   | 0.7                                   | 1.9                                   | 0.2                                   | 1.6                                   | 0.2                                   | 16                                   | 87                                    | 57        | 10       |
| JPAC397 | 20        | 24      | 4             | 1738        | 491                                   | 699                     | 105                                    | 331                                   | 38                                    | 6.8                                   | 17                                    | 2                                     | 8.6                                   | 1.4                                   | 3.1                                   | 0.4                                   | 2.7                                   | 0.4                                   | 31                                   | 79                                    | 52        | 8        |
| JPAC397 | 24        | 28      | 4             | 3271        | 705                                   | 1394                    | 189                                    | 684                                   | 97                                    | 18.9                                  | 47                                    | 5.4                                   | 24.2                                  | 3.4                                   | 8.6                                   | 1.1                                   | 6.1                                   | 0.8                                   | 88                                   | 51                                    | 37        | 6        |
| JPAC397 | 28        | 32      | 4             | 4963        | 1057                                  | 2334                    | 246                                    | 902                                   | 134                                   | 27.3                                  | 72                                    | 8.2                                   | 36                                    | 5.2                                   | 12                                    | 1.5                                   | 7.5                                   | 1                                     | 121                                  | 58                                    | 35        | 7        |
| JPAC397 | 32        | 36      | 4             | 4528        | 1003                                  | 1941                    | 243                                    | 888                                   | 133                                   | 27.6                                  | 78                                    | 8.5                                   | 37.5                                  | 5.5                                   | 12.8                                  | 1.4                                   | 7.1                                   | 0.8                                   | 142                                  | 64                                    | 37        | 6        |
| JPAC397 | 36        | 40      | 4             | 3268        | 566                                   | 1499                    | 170                                    | 659                                   | 103                                   | 22.1                                  | 64                                    | 6.9                                   | 31.8                                  | 4.8                                   | 11.3                                  | 1.2                                   | 6.4                                   | 0.8                                   | 122                                  | 43                                    | 33        | 8        |
| JPAC397 | 40        | 44      | 4             | 3278        | 523                                   | 1536                    | 178                                    | 691                                   | 107                                   | 21.8                                  | 61                                    | 6.7                                   | 29                                    | 4.3                                   | 10.1                                  | 1.1                                   | 5.8                                   | 0.7                                   | 105                                  | 46                                    | 45        | 10       |
| JPAC397 | 44        | 48      | 4             | 3107        | 539                                   | 1499                    | 156                                    | 607                                   | 88                                    | 17.4                                  | 49                                    | 5.4                                   | 24.2                                  | 3.7                                   | 9                                     | 1                                     | 5.5                                   | 0.6                                   | 102                                  | 35                                    | 20        | 8        |
| JPAC397 | 48        | 52      | 4             | 3631        | 631                                   | 1585                    | 190                                    | 769                                   | 122                                   | 25.7                                  | 75                                    | 8.4                                   | 36.3                                  | 5.6                                   | 13.7                                  | 1.6                                   | 9.6                                   | 1.3                                   | 159                                  | 47                                    | 21        | 12       |
| JPAC397 | 52        | 56      | 4             | 2360        | 413                                   | 986                     | 113                                    | 469                                   | 77                                    | 16.3                                  | 52                                    | 6                                     | 28.7                                  | 4.9                                   | 13.1                                  | 1.7                                   | 9.2                                   | 1.3                                   | 170                                  | 38                                    | 17        | 7        |
| JPAC397 | 56        | 60      | 4             | 1996        | 374                                   | 859                     | 97                                     | 395                                   | 63                                    | 13                                    | 38                                    | 4.2                                   | 19.5                                  | 3.4                                   | 8.4                                   | 1                                     | 5.8                                   | 0.7                                   | 114                                  | 39                                    | 15        | 5        |
| JPAC397 | 60        | 64      | 4             | 1564        | 319                                   | 679                     | 79                                     | 314                                   | 48                                    | 9.4                                   | 30                                    | 3.3                                   | 14.1                                  | 2                                     | 4.6                                   | 0.6                                   | 3.2                                   | 0.4                                   | 58                                   | 35                                    | 13        | 3        |
| JPAC397 | 64        | 68      | 4             | 1559        | 317                                   | 694                     | 76                                     | 301                                   | 45                                    | 9                                     | 28                                    | 3                                     | 13                                    | 2                                     | 4.9                                   | 0.6                                   | 3.4                                   | 0.5                                   | 62                                   | 32                                    | 12        | 3        |
| JPAC397 | 68        | 72      | 4             | 1533        | 300                                   | 682                     | 77                                     | 299                                   | 46                                    | 9.3                                   | 28                                    | 3.2                                   | 14.1                                  | 2.2                                   | 5.1                                   | 0.6                                   | 3.5                                   | 0.4                                   | 63                                   | 30                                    | 14        | 3        |
| JPAC397 | 72        | 76      | 4             | 1433        | 283                                   | 617                     | 74                                     | 294                                   | 47                                    | 9.4                                   | 27                                    | 2.9                                   | 12.9                                  | 1.9                                   | 4.5                                   | 0.5                                   | 2.8                                   | 0.4                                   | 57                                   | 29                                    | 14        | 2        |
| JPAC397 | 76        | 80      | 4             | 1241        | 242                                   | 536                     | 64                                     | 251                                   | 41                                    | 8.4                                   | 25                                    | 2.6                                   | 11.2                                  | 1.6                                   | 4.1                                   | 0.4                                   | 2.6                                   | 0.4                                   | 53                                   | 27                                    | 15        | 2        |
| JPAC397 | 80        | 84      | 4             | 1395        | 254                                   | 598                     | 73                                     | 294                                   | 48                                    | 9.5                                   | 28                                    | 2.9                                   | 13.9                                  | 2.1                                   | 4.7                                   | 0.6                                   | 3.1                                   | 0.4                                   | 62                                   | 24                                    | 16        | 2        |
| JPAC397 | 84        | 88      | 4             | 1224        | 239                                   | 529                     | 63                                     | 247                                   | 40                                    | 7.8                                   | 24                                    | 2.6                                   | 11.4                                  | 1.7                                   | 3.9                                   | 0.5                                   | 2.7                                   | 0.4                                   | 52                                   | 24                                    | 10        | 2        |
| JPAC397 | 88        | 89      | 1             | 1375        | 267                                   | 596                     | 70                                     | 281                                   | 44                                    | 8.8                                   | 27                                    | 2.7                                   | 12.2                                  | 2                                     | 4.4                                   | 0.5                                   | 3.1                                   | 0.3                                   | 57                                   | 24                                    | 11        | 3        |
| JPAC398 | 24        | 28      | 4             | 463         | 37                                    | 361                     | 8                                      | 30                                    | 5                                     | 0.9                                   | 3                                     | 0.4                                   | 2.5                                   | 0.4                                   | 1.4                                   | 0.2                                   | 1.4                                   | 0.2                                   | 11                                   | 56                                    | 54        | 4        |
| JPAC398 | 28        | 32      | 4             | 674         | 95                                    | 457                     | 20                                     | 67                                    | 10                                    | 1.6                                   | 5                                     | 0.6                                   | 3.1                                   | 0.5                                   | 1.5                                   | 0.3                                   | 1.7                                   | 0.2                                   | 12                                   | 59                                    | 57        | 4        |
| JPAC398 | 32        | 36      | 4             | 1414        | 418                                   | 693                     | 62                                     | 174                                   | 18                                    | 3.5                                   | 9                                     | 1.2                                   | 5.6                                   | 0.9                                   | 2.5                                   | 0.3                                   | 2.5                                   | 0.4                                   | 24                                   | 58                                    | 54        | 3        |
| JPAC398 | 36        | 40      | 4             | 1295        | 326                                   | 581                     | 61                                     | 205                                   | 29                                    | 5.7                                   | 17                                    | 2.1                                   | 10.3                                  | 1.7                                   | 4.4                                   | 0.6                                   | 3.3                                   | 0.4                                   | 48                                   | 40                                    | 28        | 3        |
| JPAC398 | 40        | 44      | 4             | 887         | 179                                   | 399                     | 43                                     | 153                                   | 23                                    | 4.9                                   | 15                                    | 1.8                                   | 9.4                                   | 1.5                                   | 4.3                                   | 0.6                                   | 2.9                                   | 0.4                                   | 49                                   | 35                                    | 40        | 5        |
| JPAC398 | 44        | 48      | 4             | 1549        | 287                                   | 728                     | 77                                     | 282                                   | 44                                    | 8.3                                   | 24                                    | 2.9                                   | 13.7                                  | 2.2                                   | 6                                     | 0.8                                   | 4.7                                   | 0.6                                   | 67                                   | 30                                    | 27        | 6        |
| JPAC398 | 48        | 52      | 4             | 1017        | 181                                   | 427                     | 52                                     | 196                                   | 31                                    | 6                                     | 20                                    | 2.4                                   | 12.3                                  | 2.3                                   | 6.3                                   | 0.9                                   | 5.1                                   | 0.6                                   | 75                                   | 25                                    | 19        | 5        |
| JPAC398 | 52        | 54      | 2             | 1394        | 239                                   | 603                     | 72                                     | 269                                   | 40                                    | 8.4                                   | 26                                    | 3.2                                   | 16.4                                  | 2.8                                   | 7.8                                   | 1                                     | 6.1                                   | 0.8                                   | 97                                   | 26                                    | 33        | 9        |
| JPAC399 | 24        | 28      | 4             | 127         | 29                                    | 55                      | 5                                      | 20                                    | 3                                     | 0.6                                   | 2                                     | 0.3                                   | 1.6                                   | 0.3                                   | 1                                     | 0.1                                   | 1                                     | 0.1                                   | 8                                    | 49                                    | 49        | 3        |
| JPAC399 | 28        | 32      | 4             | 409         | 123                                   | 165                     | 19                                     | 65                                    | 9                                     | 1.9                                   | 5                                     | 0.7                                   | 3.4                                   | 0.5                                   | 1.4                                   | 0.2                                   | 1.1                                   | 0.1                                   | 14                                   | 41                                    | 40        | 2        |
| JPAC399 | 32        | 36      | 4             | 478         | 172                                   | 147                     | 26                                     | 81                                    | 11                                    | 2.8                                   | 8                                     | 0.9                                   | 4.3                                   | 0.7                                   | 1.8                                   | 0.2                                   | 1.3                                   | 0.1                                   | 20                                   | 41                                    | 20        | 1        |
| JPAC399 | 36        | 40      | 4             | 1656        | 535                                   | 543                     | 92                                     | 309                                   | 41                                    | 8.8                                   | 25                                    | 3                                     | 14                                    | 2.2                                   | 5.4                                   | 0.6                                   | 3.3                                   | 0.4                                   | 73                                   | 34                                    | 32        | 3        |
| JPAC399 | 40        | 44      | 4             | 635         | 179                                   | 264                     | 24                                     | 80                                    | 11                                    | 2.8                                   | 9                                     | 1.1                                   | 6.5                                   | 1.3                                   | 3.7                                   | 0.5                                   | 2.8                                   | 0.4                                   | 50                                   | 32                                    | 28        | 2        |
| JPAC399 | 44        | 48      | 4             | 742         | 205                                   | 335                     | 32                                     | 102                                   | 14                                    | 3.1                                   | 9                                     | 1.1                                   | 5.7                                   | 1                                     | 2.6                                   | 0.3                                   | 1.7                                   | 0.2                                   | 30                                   | 31                                    | 12        | 2        |
| JPAC399 | 48        | 52      | 4             | 600         | 194                                   | 202                     | 35                                     | 106                                   | 13                                    | 3.4                                   | 8                                     | 0.9                                   | 4.9                                   | 0.8                                   | 2.3                                   | 0.3                                   | 1.6                                   | 0.2                                   | 27                                   | 32                                    | 9         | 2        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC399 | 52        | 56      | 4             | 739         | 175                                   | 375                     | 34                                     | 103                                   | 13                                    | 2.8                                   | 6                                     | 0.8                                   | 3.8                                   | 0.7                                   | 1.9                                   | 0.3                                   | 1.5                                   | 0.2                                   | 22                                   | 33                                    | 14        | 2        |
| JPAC399 | 56        | 60      | 4             | 1751        | 317                                   | 838                     | 90                                     | 332                                   | 45                                    | 9.1                                   | 22                                    | 2.7                                   | 12.7                                  | 2.2                                   | 6.1                                   | 0.8                                   | 5.2                                   | 0.7                                   | 68                                   | 31                                    | 13        | 4        |
| JPAC399 | 60        | 64      | 4             | 1796        | 283                                   | 1104                    | 68                                     | 238                                   | 31                                    | 5.5                                   | 15                                    | 1.7                                   | 7.6                                   | 1.3                                   | 3.2                                   | 0.4                                   | 2.5                                   | 0.3                                   | 36                                   | 35                                    | 16        | 5        |
| JPAC399 | 64        | 68      | 4             | 1635        | 225                                   | 1098                    | 51                                     | 175                                   | 23                                    | 4.6                                   | 11                                    | 1.2                                   | 6.7                                   | 1.1                                   | 3                                     | 0.4                                   | 2.5                                   | 0.3                                   | 32                                   | 28                                    | 17        | 4        |
| JPAC399 | 68        | 72      | 4             | 564         | 116                                   | 267                     | 29                                     | 103                                   | 13                                    | 2.9                                   | 7                                     | 0.8                                   | 3.6                                   | 0.6                                   | 1.8                                   | 0.3                                   | 1.5                                   | 0.3                                   | 20                                   | 24                                    | 12        | 2        |
| JPAC399 | 72        | 75      | 3             | 388         | 91                                    | 115                     | 23                                     | 92                                    | 12                                    | 3.5                                   | 7                                     | 1                                     | 4.7                                   | 0.9                                   | 2.9                                   | 0.4                                   | 2.4                                   | 0.4                                   | 33                                   | 24                                    | 6         | 1        |
| JPAC400 | 32        | 36      | 4             | 360         | 113                                   | 125                     | 19                                     | 62                                    | 9                                     | 2.6                                   | 6                                     | 0.7                                   | 3.4                                   | 0.5                                   | 1.2                                   | 0.2                                   | 1.2                                   | 0.2                                   | 17                                   | 43                                    | 61        | 3        |
| JPAC400 | 36        | 40      | 4             | 622         | 199                                   | 205                     | 35                                     | 110                                   | 17                                    | 4.3                                   | 10                                    | 1.3                                   | 6.1                                   | 1.1                                   | 2.3                                   | 0.3                                   | 1.8                                   | 0.3                                   | 29                                   | 45                                    | 63        | 3        |
| JPAC400 | 40        | 44      | 4             | 989         | 273                                   | 396                     | 53                                     | 171                                   | 24                                    | 5.8                                   | 14                                    | 1.6                                   | 7.4                                   | 1.3                                   | 3                                     | 0.4                                   | 2.4                                   | 0.4                                   | 37                                   | 42                                    | 68        | 5        |
| JPAC400 | 44        | 48      | 4             | 1223        | 335                                   | 538                     | 61                                     | 195                                   | 27                                    | 6.6                                   | 14                                    | 1.7                                   | 7.2                                   | 1.1                                   | 2.6                                   | 0.4                                   | 2.1                                   | 0.4                                   | 32                                   | 47                                    | 39        | 5        |
| JPAC400 | 48        | 52      | 4             | 1160        | 354                                   | 427                     | 61                                     | 196                                   | 28                                    | 7.8                                   | 18                                    | 2.1                                   | 10.3                                  | 1.6                                   | 4.4                                   | 0.5                                   | 3.1                                   | 0.4                                   | 47                                   | 40                                    | 29        | 5        |
| JPAC400 | 52        | 56      | 4             | 3697        | 700                                   | 2094                    | 146                                    | 499                                   | 68                                    | 14.4                                  | 36                                    | 3.8                                   | 18.8                                  | 3                                     | 8                                     | 1                                     | 6.5                                   | 1                                     | 96                                   | 41                                    | 61        | 8        |
| JPAC400 | 56        | 60      | 4             | 3491        | 568                                   | 1726                    | 162                                    | 636                                   | 104                                   | 20.2                                  | 62                                    | 6.5                                   | 31.4                                  | 4.9                                   | 12.8                                  | 1.5                                   | 9                                     | 1.2                                   | 146                                  | 32                                    | 48        | 5        |
| JPAC400 | 60        | 64      | 4             | 2431        | 369                                   | 1087                    | 122                                    | 498                                   | 87                                    | 16.8                                  | 56                                    | 5.9                                   | 29.3                                  | 4.5                                   | 11.9                                  | 1.5                                   | 9.8                                   | 1.4                                   | 131                                  | 28                                    | 30        | 5        |
| JPAC400 | 64        | 68      | 4             | 1850        | 308                                   | 819                     | 88                                     | 342                                   | 56                                    | 11.1                                  | 38                                    | 4.3                                   | 22.4                                  | 3.7                                   | 10.9                                  | 1.4                                   | 9.6                                   | 1.4                                   | 135                                  | 29                                    | 27        | 5        |
| JPAC400 | 68        | 70      | 2             | 1635        | 271                                   | 743                     | 78                                     | 293                                   | 49                                    | 10                                    | 33                                    | 3.5                                   | 18.2                                  | 3.1                                   | 8.8                                   | 1.2                                   | 7.4                                   | 1.1                                   | 116                                  | 29                                    | 28        | 4        |
| JPAC401 | 16        | 20      | 4             | 232         | 74                                    | 85                      | 11                                     | 35                                    | 5                                     | 1.1                                   | 4                                     | 0.4                                   | 2.1                                   | 0.3                                   | 1.2                                   | 0.2                                   | 1                                     | 0.2                                   | 12                                   | 51                                    | 29        | 3        |
| JPAC401 | 20        | 24      | 4             | 1820        | 487                                   | 728                     | 98                                     | 329                                   | 48                                    | 9.7                                   | 31                                    | 3                                     | 13.8                                  | 2                                     | 5                                     | 0.5                                   | 3                                     | 0.4                                   | 63                                   | 59                                    | 49        | 3        |
| JPAC401 | 24        | 28      | 4             | 2367        | 522                                   | 1024                    | 117                                    | 434                                   | 73                                    | 14                                    | 45                                    | 4.6                                   | 20.2                                  | 3.1                                   | 7.5                                   | 0.8                                   | 4.4                                   | 0.7                                   | 97                                   | 51                                    | 58        | 4        |
| JPAC401 | 28        | 32      | 4             | 2466        | 491                                   | 1176                    | 114                                    | 425                                   | 69                                    | 13.5                                  | 44                                    | 4.4                                   | 19.3                                  | 2.9                                   | 7.2                                   | 0.8                                   | 4.4                                   | 0.6                                   | 95                                   | 43                                    | 47        | 4        |
| JPAC401 | 32        | 36      | 4             | 3050        | 595                                   | 1486                    | 140                                    | 506                                   | 78                                    | 13.3                                  | 48                                    | 4.9                                   | 23.6                                  | 3.7                                   | 9.8                                   | 1.1                                   | 7                                     | 1                                     | 133                                  | 43                                    | 25        | 6        |
| JPAC401 | 36        | 40      | 4             | 2561        | 547                                   | 1178                    | 124                                    | 453                                   | 75                                    | 14.3                                  | 44                                    | 4.4                                   | 20                                    | 2.8                                   | 6.9                                   | 0.8                                   | 4.2                                   | 0.7                                   | 87                                   | 44                                    | 45        | 7        |
| JPAC401 | 40        | 44      | 4             | 2529        | 483                                   | 1166                    | 124                                    | 478                                   | 82                                    | 15.8                                  | 50                                    | 4.8                                   | 21.1                                  | 3.1                                   | 7.2                                   | 0.9                                   | 5.5                                   | 0.8                                   | 87                                   | 40                                    | 116       | 10       |
| JPAC401 | 44        | 48      | 4             | 2408        | 449                                   | 1112                    | 115                                    | 434                                   | 74                                    | 13.9                                  | 47                                    | 4.6                                   | 21.1                                  | 3.4                                   | 8.6                                   | 1.1                                   | 7                                     | 1.1                                   | 118                                  | 33                                    | 76        | 8        |
| JPAC401 | 48        | 52      | 4             | 3527        | 536                                   | 1707                    | 171                                    | 658                                   | 114                                   | 22.3                                  | 72                                    | 7.9                                   | 35.5                                  | 5.6                                   | 14.1                                  | 1.8                                   | 10.9                                  | 1.6                                   | 170                                  | 29                                    | 68        | 6        |
| JPAC401 | 52        | 56      | 4             | 3504        | 296                                   | 924                     | 98                                     | 422                                   | 87                                    | 21.5                                  | 111                                   | 17.2                                  | 120.5                                 | 28.2                                  | 86.6                                  | 11.2                                  | 66.6                                  | 11.1                                  | 1205                                 | 26                                    | 44        | 10       |
| JPAC401 | 56        | 60      | 4             | 1335        | 251                                   | 554                     | 68                                     | 272                                   | 50                                    | 10.4                                  | 31                                    | 3.1                                   | 14.9                                  | 2.1                                   | 5.1                                   | 0.6                                   | 3.4                                   | 0.5                                   | 70                                   | 28                                    | 23        | 4        |
| JPAC401 | 60        | 64      | 4             | 1732        | 332                                   | 769                     | 86                                     | 325                                   | 54                                    | 10.2                                  | 35                                    | 3.6                                   | 16.9                                  | 2.5                                   | 6.4                                   | 0.7                                   | 4.6                                   | 0.6                                   | 86                                   | 32                                    | 16        | 3        |
| JPAC401 | 64        | 68      | 4             | 1459        | 285                                   | 634                     | 74                                     | 280                                   | 47                                    | 8.8                                   | 30                                    | 3                                     | 14.6                                  | 2.4                                   | 5.5                                   | 0.7                                   | 3.6                                   | 0.5                                   | 71                                   | 32                                    | 15        | 3        |
| JPAC401 | 68        | 72      | 4             | 1368        | 269                                   | 591                     | 70                                     | 271                                   | 46                                    | 8.5                                   | 30                                    | 2.8                                   | 12.9                                  | 1.9                                   | 4.7                                   | 0.6                                   | 3.2                                   | 0.5                                   | 58                                   | 26                                    | 16        | 3        |
| JPAC401 | 72        | 76      | 4             | 1301        | 250                                   | 554                     | 66                                     | 259                                   | 45                                    | 8.6                                   | 30                                    | 2.8                                   | 13                                    | 1.9                                   | 5.1                                   | 0.6                                   | 3.4                                   | 0.6                                   | 62                                   | 30                                    | 17        | 3        |
| JPAC401 | 76        | 80      | 4             | 1187        | 217                                   | 504                     | 60                                     | 246                                   | 43                                    | 8.7                                   | 27                                    | 2.8                                   | 12.6                                  | 1.9                                   | 4.2                                   | 0.5                                   | 3.1                                   | 0.5                                   | 57                                   | 28                                    | 17        | 3        |
| JPAC401 | 80        | 82      | 2             | 1056        | 205                                   | 450                     | 54                                     | 213                                   | 38                                    | 8.4                                   | 23                                    | 2.4                                   | 10.4                                  | 1.5                                   | 3.8                                   | 0.5                                   | 2.4                                   | 0.4                                   | 46                                   | 28                                    | 23        | 3        |
| JPAC402 | 12        | 16      | 4             | 519         | 153                                   | 154                     | 31                                     | 110                                   | 18                                    | 3.3                                   | 10                                    | 1.3                                   | 5.8                                   | 1                                     | 2.3                                   | 0.2                                   | 1.5                                   | 0.2                                   | 29                                   | 44                                    | 25        | 2        |
| JPAC402 | 16        | 20      | 4             | 1431        | 382                                   | 568                     | 74                                     | 244                                   | 39                                    | 7.4                                   | 23                                    | 2.9                                   | 13.3                                  | 2.3                                   | 5.1                                   | 0.6                                   | 3.4                                   | 0.4                                   | 66                                   | 47                                    | 29        | 3        |
| JPAC402 | 20        | 24      | 4             | 1540        | 361                                   | 738                     | 69                                     | 223                                   | 34                                    | 6.4                                   | 20                                    | 2.7                                   | 12.3                                  | 2.2                                   | 4.9                                   | 0.6                                   | 3.7                                   | 0.5                                   | 62                                   | 50                                    | 28        | 5        |
| JPAC402 | 24        | 28      | 4             | 2088        | 432                                   | 1079                    | 90                                     | 297                                   | 44                                    | 9                                     | 27                                    | 3.5                                   | 15.4                                  | 2.7                                   | 6.4                                   | 0.7                                   | 4.3                                   | 0.6                                   | 78                                   | 45                                    | 32        | 5        |
| JPAC402 | 28        | 32      | 4             | 942         | 254                                   | 377                     | 53                                     | 159                                   | 24                                    | 5.7                                   | 13                                    | 1.6                                   | 7.8                                   | 1.3                                   | 3                                     | 0.4                                   | 2.1                                   | 0.3                                   | 40                                   | 53                                    | 21        | 3        |
| JPAC402 | 32        | 36      | 4             | 2210        | 569                                   | 806                     | 148                                    | 481                                   | 61                                    | 11.9                                  | 31                                    | 3.8                                   | 16.2                                  | 2.5                                   | 5.7                                   | 0.7                                   | 4.3                                   | 0.6                                   | 70                                   | 49                                    | 27        | 5        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC402 | 36        | 40      | 4             | 2373        | 406                                   | 864                     | 144                                    | 597                                   | 88                                    | 18.4                                  | 53                                    | 6.2                                   | 26.9                                  | 4.8                                   | 11.5                                  | 1.6                                   | 8.8                                   | 1.2                                   | 143                                  | 49                                    | 25        | 5        |
| JPAC402 | 40        | 44      | 4             | 1722        | 310                                   | 765                     | 91                                     | 341                                   | 48                                    | 9.7                                   | 28                                    | 3.4                                   | 15.1                                  | 2.7                                   | 7.3                                   | 1.1                                   | 6.7                                   | 0.9                                   | 93                                   | 47                                    | 28        | 5        |
| JPAC402 | 44        | 48      | 4             | 1688        | 283                                   | 712                     | 91                                     | 380                                   | 62                                    | 12.8                                  | 36                                    | 4.4                                   | 18.4                                  | 2.9                                   | 7.1                                   | 1                                     | 6                                     | 0.8                                   | 71                                   | 41                                    | 28        | 4        |
| JPAC402 | 48        | 52      | 4             | 1609        | 274                                   | 645                     | 81                                     | 343                                   | 65                                    | 13.4                                  | 38                                    | 4.8                                   | 21.6                                  | 3.6                                   | 9.7                                   | 1.5                                   | 8.9                                   | 1.3                                   | 100                                  | 43                                    | 26        | 4        |
| JPAC402 | 52        | 56      | 4             | 1237        | 213                                   | 509                     | 61                                     | 244                                   | 44                                    | 9.7                                   | 30                                    | 4                                     | 18.2                                  | 3.1                                   | 8.1                                   | 1.2                                   | 8                                     | 1.1                                   | 84                                   | 36                                    | 20        | 3        |
| JPAC402 | 56        | 60      | 4             | 1225        | 218                                   | 499                     | 62                                     | 232                                   | 40                                    | 8.6                                   | 27                                    | 3.4                                   | 17                                    | 3.1                                   | 8.4                                   | 1.3                                   | 8.1                                   | 1.4                                   | 99                                   | 35                                    | 20        | 4        |
| JPAC402 | 60        | 64      | 4             | 1184        | 212                                   | 505                     | 58                                     | 215                                   | 38                                    | 7.7                                   | 24                                    | 3.2                                   | 14.6                                  | 2.7                                   | 7.3                                   | 1.2                                   | 7.3                                   | 1.2                                   | 87                                   | 38                                    | 22        | 4        |
| JPAC402 | 64        | 68      | 4             | 1213        | 215                                   | 511                     | 61                                     | 227                                   | 40                                    | 9.1                                   | 27                                    | 3.4                                   | 15                                    | 2.7                                   | 7.3                                   | 1                                     | 6.9                                   | 0.9                                   | 86                                   | 39                                    | 19        | 4        |
| JPAC402 | 68        | 72      | 4             | 245         | 54                                    | 98                      | 11                                     | 40                                    | 6                                     | 1.2                                   | 5                                     | 0.6                                   | 3.1                                   | 0.7                                   | 1.8                                   | 0.2                                   | 1.5                                   | 0.2                                   | 23                                   | 25                                    | 16        | 2        |
| JPAC402 | 72        | 74      | 2             | 1173        | 216                                   | 501                     | 60                                     | 219                                   | 37                                    | 7.7                                   | 22                                    | 2.9                                   | 13.3                                  | 2.3                                   | 6                                     | 0.9                                   | 4.8                                   | 0.7                                   | 79                                   | 35                                    | 19        | 4        |
| JPAC403 | 0         | 4       | 4             | 1280        | 226                                   | 537                     | 65                                     | 248                                   | 43                                    | 8.8                                   | 26                                    | 3.4                                   | 15.7                                  | 2.9                                   | 7.7                                   | 1.1                                   | 6                                     | 1                                     | 90                                   | 39                                    | 22        | 5        |
| JPAC403 | 4         | 8       | 4             | 1045        | 260                                   | 494                     | 49                                     | 160                                   | 24                                    | 5.8                                   | 12                                    | 1.5                                   | 6.6                                   | 1.1                                   | 2.6                                   | 0.3                                   | 1.9                                   | 0.3                                   | 27                                   | 46                                    | 50        | 2        |
| JPAC403 | 8         | 12      | 4             | 2168        | 482                                   | 995                     | 115                                    | 387                                   | 56                                    | 10.9                                  | 28                                    | 3.3                                   | 13.8                                  | 2.4                                   | 5.4                                   | 0.7                                   | 3.7                                   | 0.6                                   | 64                                   | 48                                    | 55        | 7        |
| JPAC403 | 12        | 16      | 4             | 2411        | 447                                   | 1099                    | 127                                    | 475                                   | 75                                    | 16.5                                  | 42                                    | 5.1                                   | 21.9                                  | 3.6                                   | 7.7                                   | 0.9                                   | 4.1                                   | 0.5                                   | 87                                   | 42                                    | 43        | 8        |
| JPAC403 | 16        | 20      | 4             | 2001        | 393                                   | 884                     | 104                                    | 394                                   | 60                                    | 12.4                                  | 33                                    | 4                                     | 17.6                                  | 3                                     | 7.1                                   | 0.8                                   | 4.2                                   | 0.4                                   | 83                                   | 42                                    | 44        | 7        |
| JPAC403 | 20        | 24      | 4             | 1619        | 314                                   | 725                     | 88                                     | 317                                   | 46                                    | 9.8                                   | 25                                    | 3                                     | 13.4                                  | 2.3                                   | 5.6                                   | 0.7                                   | 4                                     | 0.6                                   | 65                                   | 39                                    | 38        | 5        |
| JPAC403 | 24        | 28      | 4             | 476         | 85                                    | 191                     | 24                                     | 88                                    | 15                                    | 3.7                                   | 10                                    | 1.4                                   | 6.8                                   | 1.3                                   | 3.3                                   | 0.6                                   | 3.8                                   | 0.6                                   | 43                                   | 29                                    | 26        | 4        |
| JPAC404 | 0         | 4       | 4             | 271         | 53                                    | 124                     | 11                                     | 39                                    | 7                                     | 1.5                                   | 5                                     | 0.7                                   | 4                                     | 0.7                                   | 2                                     | 0.3                                   | 1.7                                   | 0.3                                   | 23                                   | 27                                    | 17        | 2        |
| JPAC404 | 4         | 8       | 4             | 978         | 189                                   | 416                     | 51                                     | 197                                   | 33                                    | 6.9                                   | 18                                    | 2.1                                   | 9.2                                   | 1.5                                   | 3.7                                   | 0.5                                   | 2.6                                   | 0.4                                   | 47                                   | 26                                    | 15        | 2        |
| JPAC404 | 8         | 12      | 4             | 1507        | 296                                   | 646                     | 76                                     | 292                                   | 47                                    | 10.8                                  | 31                                    | 3.5                                   | 15.4                                  | 2.7                                   | 5.7                                   | 0.7                                   | 3.9                                   | 0.6                                   | 77                                   | 28                                    | 14        | 2        |
| JPAC404 | 12        | 14      | 2             | 1534        | 300                                   | 677                     | 77                                     | 293                                   | 46                                    | 10.5                                  | 29                                    | 3.3                                   | 14.5                                  | 2.4                                   | 5.4                                   | 0.7                                   | 3.6                                   | 0.5                                   | 71                                   | 31                                    | 20        | 3        |
| JPAC406 | 0         | 4       | 4             | 255         | 57                                    | 108                     | 11                                     | 38                                    | 6                                     | 1.1                                   | 5                                     | 0.6                                   | 3.6                                   | 0.6                                   | 1.7                                   | 0.2                                   | 1.8                                   | 0.3                                   | 21                                   | 22                                    | 16        | 2        |
| JPAC406 | 4         | 8       | 4             | 863         | 201                                   | 392                     | 43                                     | 148                                   | 21                                    | 4.1                                   | 12                                    | 1.4                                   | 6.5                                   | 1.1                                   | 2.4                                   | 0.3                                   | 2                                     | 0.2                                   | 29                                   | 30                                    | 18        | 2        |
| JPAC406 | 8         | 12      | 4             | 2240        | 518                                   | 1036                    | 114                                    | 395                                   | 56                                    | 11.1                                  | 30                                    | 3.4                                   | 13.9                                  | 1.9                                   | 4.4                                   | 0.5                                   | 2.4                                   | 0.2                                   | 53                                   | 38                                    | 21        | 3        |
| JPAC406 | 12        | 16      | 4             | 2412        | 498                                   | 1271                    | 108                                    | 353                                   | 50                                    | 9.9                                   | 29                                    | 3.3                                   | 13.3                                  | 2.3                                   | 5.3                                   | 0.7                                   | 3.5                                   | 0.5                                   | 64                                   | 41                                    | 24        | 4        |
| JPAC406 | 16        | 20      | 4             | 3061        | 508                                   | 1640                    | 123                                    | 440                                   | 70                                    | 14.9                                  | 46                                    | 5.6                                   | 25.6                                  | 4.6                                   | 11.9                                  | 1.7                                   | 9.9                                   | 1.4                                   | 160                                  | 39                                    | 40        | 3        |
| JPAC406 | 20        | 24      | 4             | 2329        | 428                                   | 1112                    | 120                                    | 447                                   | 65                                    | 13.4                                  | 36                                    | 4.3                                   | 17.3                                  | 2.5                                   | 5.8                                   | 0.7                                   | 3.9                                   | 0.6                                   | 74                                   | 41                                    | 31        | 4        |
| JPAC406 | 24        | 28      | 4             | 2218        | 382                                   | 924                     | 113                                    | 471                                   | 83                                    | 19.3                                  | 57                                    | 6.8                                   | 29.2                                  | 4.4                                   | 10                                    | 1.2                                   | 6.9                                   | 0.8                                   | 109                                  | 37                                    | 24        | 3        |
| JPAC406 | 28        | 32      | 4             | 1626        | 299                                   | 679                     | 80                                     | 332                                   | 61                                    | 13.7                                  | 43                                    | 4.9                                   | 19.7                                  | 3                                     | 7.3                                   | 0.9                                   | 5.9                                   | 0.7                                   | 77                                   | 33                                    | 17        | 3        |
| JPAC406 | 32        | 36      | 4             | 1665        | 277                                   | 628                     | 75                                     | 315                                   | 58                                    | 13.8                                  | 45                                    | 5.6                                   | 27.8                                  | 5.2                                   | 14                                    | 2.1                                   | 12.1                                  | 1.8                                   | 185                                  | 30                                    | 21        | 4        |
| JPAC406 | 36        | 40      | 4             | 1405        | 265                                   | 591                     | 69                                     | 269                                   | 44                                    | 9.8                                   | 30                                    | 3.4                                   | 14.6                                  | 2.6                                   | 6.3                                   | 0.9                                   | 4.8                                   | 0.7                                   | 95                                   | 26                                    | 16        | 3        |
| JPAC406 | 40        | 44      | 4             | 1302        | 250                                   | 544                     | 66                                     | 260                                   | 40                                    | 9.9                                   | 29                                    | 3.3                                   | 13.7                                  | 2.3                                   | 5.7                                   | 0.7                                   | 4.1                                   | 0.5                                   | 73                                   | 29                                    | 17        | 3        |
| JPAC406 | 44        | 48      | 4             | 1035        | 196                                   | 432                     | 52                                     | 205                                   | 33                                    | 7.8                                   | 22                                    | 2.8                                   | 11.8                                  | 1.9                                   | 4.9                                   | 0.6                                   | 3.7                                   | 0.5                                   | 61                                   | 26                                    | 19        | 4        |
| JPAC406 | 48        | 51      | 3             | 141         | 29                                    | 60                      | 5                                      | 18                                    | 3                                     | 0.5                                   | 3                                     | 0.4                                   | 2.2                                   | 0.4                                   | 1.3                                   | 0.2                                   | 1.1                                   | 0.1                                   | 16                                   | 20                                    | 31        | 2        |
| JPAC407 | 4         | 8       | 4             | 398         | 81                                    | 181                     | 17                                     | 63                                    | 10                                    | 2                                     | 7                                     | 0.9                                   | 5                                     | 0.9                                   | 2.1                                   | 0.3                                   | 2                                     | 0.4                                   | 27                                   | 29                                    | 21        | 2        |
| JPAC407 | 8         | 12      | 4             | 468         | 123                                   | 186                     | 23                                     | 82                                    | 12                                    | 2.2                                   | 8                                     | 1                                     | 4.1                                   | 0.8                                   | 2.1                                   | 0.3                                   | 1.8                                   | 0.2                                   | 23                                   | 41                                    | 24        | 2        |
| JPAC407 | 12        | 16      | 4             | 1396        | 362                                   | 555                     | 74                                     | 254                                   | 39                                    | 8.2                                   | 24                                    | 3                                     | 12.2                                  | 1.9                                   | 4.2                                   | 0.6                                   | 2.8                                   | 0.4                                   | 55                                   | 51                                    | 36        | 2        |
| JPAC407 | 16        | 20      | 4             | 2045        | 400                                   | 868                     | 103                                    | 401                                   | 67                                    | 14.1                                  | 43                                    | 5                                     | 21.5                                  | 3.6                                   | 8.7                                   | 1                                     | 5.5                                   | 0.6                                   | 104                                  | 44                                    | 32        | 2        |
| JPAC407 | 20        | 24      | 4             | 2010        | 415                                   | 973                     | 83                                     | 303                                   | 49                                    | 10.8                                  | 33                                    | 4.1                                   | 19.2                                  | 3.2                                   | 7.7                                   | 1                                     | 6.1                                   | 0.7                                   | 102                                  | 40                                    | 32        | 3        |

| Hole    | From<br>m | To<br>m | Interval<br>m | TREO<br>ppm | La <sub>2</sub> O <sub>3</sub><br>ppm | CeO <sub>2</sub><br>ppm | Pr <sub>6</sub> O <sub>11</sub><br>ppm | Nd <sub>2</sub> O <sub>3</sub><br>ppm | Sm <sub>2</sub> O <sub>3</sub><br>ppm | Eu <sub>2</sub> O <sub>3</sub><br>ppm | Gd <sub>2</sub> O <sub>3</sub><br>ppm | Tb <sub>4</sub> O <sub>7</sub><br>ppm | Dy <sub>2</sub> O <sub>3</sub><br>ppm | Ho <sub>2</sub> O <sub>3</sub><br>ppm | Er <sub>2</sub> O <sub>3</sub><br>ppm | Tm <sub>2</sub> O <sub>3</sub><br>ppm | Yb <sub>2</sub> O <sub>3</sub><br>ppm | Lu <sub>2</sub> O <sub>3</sub><br>ppm | Y <sub>2</sub> O <sub>3</sub><br>ppm | Ga <sub>2</sub> O <sub>3</sub><br>ppm | Th<br>ppm | U<br>ppm |
|---------|-----------|---------|---------------|-------------|---------------------------------------|-------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------|----------|
| JPAC407 | 24        | 28      | 4             | 388         | 84                                    | 179                     | 15                                     | 49                                    | 9                                     | 1.5                                   | 6                                     | 0.9                                   | 5                                     | 0.9                                   | 2.9                                   | 0.4                                   | 2.9                                   | 0.4                                   | 32                                   | 27                                    | 37        | 2        |
| JPAC407 | 28        | 32      | 4             | 577         | 131                                   | 247                     | 29                                     | 102                                   | 15                                    | 2.8                                   | 9                                     | 1.3                                   | 5.3                                   | 1                                     | 2.6                                   | 0.4                                   | 2.2                                   | 0.3                                   | 29                                   | 33                                    | 36        | 4        |
| JPAC407 | 32        | 36      | 4             | 1589        | 341                                   | 660                     | 92                                     | 323                                   | 47                                    | 9.4                                   | 27                                    | 3.2                                   | 14.5                                  | 2.1                                   | 4.9                                   | 0.6                                   | 3.2                                   | 0.4                                   | 61                                   | 39                                    | 27        | 5        |
| JPAC407 | 36        | 40      | 4             | 1323        | 304                                   | 555                     | 76                                     | 250                                   | 35                                    | 8                                     | 22                                    | 2.5                                   | 11.8                                  | 1.8                                   | 4.2                                   | 0.4                                   | 2.5                                   | 0.4                                   | 50                                   | 40                                    | 30        | 4        |
| JPAC407 | 40        | 42      | 2             | 2299        | 357                                   | 958                     | 124                                    | 510                                   | 83                                    | 17.9                                  | 56                                    | 7                                     | 31.1                                  | 4.9                                   | 11.9                                  | 1.2                                   | 6.9                                   | 0.6                                   | 131                                  | 36                                    | 29        | 3        |

## Appendix One: JORC Code, 2012 Edition |

### Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections)

| Criteria                  | JORC Code Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Commentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table Sampling techniques | <ul style="list-style-type: none"> <li>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.</li> <li>Measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report. 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.</li> </ul> | <ul style="list-style-type: none"> <li>Assay results for 145 Air Core (AC) holes drilled for 7,086 m are being reported. The holes were drilled for the purpose of resource definition for the Jupiter clay-hosted REE deposit.</li> <li>The AC drill cuttings were collected from the drill rig cyclone in 1 m intervals into green plastic bags and arranged in rows on site for assay sampling. Composite samples typically representing 4 m intervals (range 2 to 6 m) were collected as appropriate using a sampling spear from the bulk one metre samples.</li> <li>Drilling and sampling was supervised by a suitably qualified Critica Limited geologist.</li> <li>Samples were submitted to commercial assay laboratory ALS Geochemistry ("ALS") for assay.</li> </ul> |
| Drilling techniques       | <ul style="list-style-type: none"> <li>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.).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>This report is based on 145 holes drilled with a KL 150 AC rig operated by KTE Mining Services Pty Ltd.</li> <li>The AC drilling was conducted with a 90mm blade and holes were drilled vertical and to blade refusal in near fresh rock.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Drill sample recovery     | <ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>The bulk AC samples were visually assessed and weighed at the drill rig. Samples are considered to be representative with good recovery.</li> <li>Sample condition and recovery are recorded every metre.</li> <li>Water table is recorded when intersected. Where water is encountered, there is limited impact on sample recovery.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                          |
| Logging                   | <ul style="list-style-type: none"> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"> <li>All drill holes were qualitatively geologically logged by qualified Critica Limited geologists.</li> <li>AC chips are sampled into chip trays and photographed.</li> <li>Geological logging is of a standard considered appropriate for Mineral Resource Estimation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Criteria                                       | JORC Code Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Commentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                | <ul style="list-style-type: none"> <li>The total length and percentage of the relevant intersections logged.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sub-sampling techniques and sample preparation | <ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul> | <ul style="list-style-type: none"> <li>Drill composites of mainly 4 m length were collected using sampling spear from homogenised one metre samples.</li> <li>Assay sample weights ranged between 1.2 to 3.9 kg for 4 metre composite samples with an average of 2.4 kg. Sample sizes are considered appropriate for the material sampled.</li> <li>Commercial assay standards were included in the laboratory submittals at a rate of c. 1 per 13 samples with at least one standard included in each drill hole.</li> <li>Field duplicate samples were collected at a rate of c. 1 per c. 8 samples.</li> <li>Two duplicate samples per drill hole were inserted within the clay (upper saprolite) and saprolite (lower saprolite) zones to evaluate sampling error within the two dominant mineralised regolith units.</li> <li>The average 4 m sample lengths are considered appropriate for the clay-hosted REE mineralisation.</li> </ul> |
| Quality of assay data and laboratory tests     | <ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</li> </ul>                                                                             | <ul style="list-style-type: none"> <li>All samples were submitted to ALS Geochemistry, Perth ("ALS") where they were oven dried then pulverized to P80 - 75 microns (method PUL-23).</li> <li>Assaying of drill samples was conducted by ALS using a lithium borate fusion at 1025 deg C followed by nitric + hydrochloric + hydrofluoric acid digestion of the resultant glass bead and ICP-MS finish for 32 elements including full REE suite (ALS method ME-MS81).</li> <li>Matrix-matched commercial Certified Reference Materials comprising of Jupiter clay-hosted REE mineralisation were used and represent grade ranges typical of the Jupiter mineralisation.</li> <li>94% of the client assay standards reported within two standard deviations of the REE+Y certified reference values for the range of interest (&gt;1 ppm).</li> </ul>                                                                                            |
| Verification of sampling and assaying          | <ul style="list-style-type: none"> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>AC, RC and diamond drill-hole twinned has been completed in previous programs. No drill-hole twinning was completed in the reported program.</li> <li>The assay results are compatible with observed mineralogy.</li> <li>Primary data is stored and documented in industry standard ways.</li> <li>Critica Limited assay data is as reported by ALS and has not been adjusted in any way.</li> <li>Remnant assay pulps are currently held in</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Criteria                                                | JORC Code Explanation                                                                                                                                                                                                                                                                                                                                                                                                            | Commentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                  | storage by ALS to be returned to Critica Limited for storage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Location of data points                                 | <ul style="list-style-type: none"> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>                                                                                              | <ul style="list-style-type: none"> <li>Drill hole locations were determined using a Stonex S900A DGPS with a nominal accuracy of +/- 0.4 metres.</li> <li>All coordinates and maps presented here are in the MGA Zone 50 GDA94 system.</li> <li>Topographic control is provided by Worldwide 3 arc second SRTM spot height data.</li> </ul>                                                                                                                                                                                                                               |
| Data spacing and distribution                           | <ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>                                 | <ul style="list-style-type: none"> <li>Drill holes reported have been drilled at a 125 x 125 metre spacing and form part of a resource definition program. Drill hole spacing is considered appropriate for the mineralisation style and resource classification.</li> <li>The reported drilling is drilled along newly cleared tracks and existing pastoral station tracks on 125 metre spacing.</li> <li>The assay results reported here are for four metre intervals (1-5 m for end of hole sample) composited from the bulk one metre AC sample intervals.</li> </ul> |
| Orientation of data in relation to geological structure | <ul style="list-style-type: none"> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul> | <ul style="list-style-type: none"> <li>The AC holes were drilled vertically along cleared and existing tracks.</li> <li>The intersected clay and saprolite zones blanket weathered granitoid basement such that downhole thickness approximate true thickness.</li> </ul>                                                                                                                                                                                                                                                                                                 |
| Sample security                                         | <ul style="list-style-type: none"> <li>The measures taken to ensure sample security.</li> </ul>                                                                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>The chain of custody for all Critica Limited samples from collection to dispatch to assay laboratory was managed by Critica Limited personnel.</li> <li>Sample numbers are unique and do not include any locational or interval information useful to non-Critica Limited personnel.</li> <li>The level of security is considered appropriate for such exploration drilling.</li> </ul>                                                                                                                                            |
| Audits or reviews                                       | <ul style="list-style-type: none"> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>Duplicate sampling at a rate of c. 1 per c. 8 samples were used to evaluate sampling error and is considered acceptable for exploration and resource drilling.</li> <li>The new drilling results are compatible with Critica Limited' previously reported RC and AC drilling results.</li> </ul>                                                                                                                                                                                                                                   |

## Section 2 Reporting of Exploration Results

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

| Criteria                                | JORC Code Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Commentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mineral tenement and land tenure status | <ul style="list-style-type: none"> <li>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</li> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</li> </ul> | <ul style="list-style-type: none"> <li>The Brothers REE Project consists of granted Exploration Licences E59/ 629, E59/2421, E59/2463, E59/2710, E59/2711, E59/2819, E59/2821, E59/2827, E59/2889, E59/2890, E59/2907, E59/2927, E59/2928, E59/2930 and E59/2977. All are 100% held by Tasmanian Rare Earth Pty Ltd a wholly owned subsidiary of Critica Limited.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Exploration done by other parties       | <ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>Documented previous explorers within the area now covered by the Brothers Project include North Flinders Mines Ltd, CRA Exploration Pty Ltd, Spark Energy Pty Ltd, Arcadia Minerals Ltd, Babalya Gold Pty Ltd, Burmine Ltd, Equigold NL, Equinox Resources NL, Jervois Mining Ltd, Minjar Gold Pty Ltd, Mount Magnet South NL, Sons of Gwalia Ltd and David Ross.</li> <li>Refer to previous Critica Limited announcements to the ASX and also available from <a href="https://critica.limited">https://critica.limited</a></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Geology                                 | <ul style="list-style-type: none"> <li>Deposit type, geological setting and style of mineralisation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>The Jupiter deposit is located within the Archaean Murchison Domain of the Youanmi Terrane, Yilgarn Craton. The Archaean basement throughout the Jupiter area is generally deeply weathered and extensively covered by Cenozoic alluvial and colluvial sand and gravel.</li> <li>The Jupiter REE deposit and associated intrusion itself is completely concealed by alluvial and colluvial sand and hardpan within an area currently interpreted as the Big Bell Suite.</li> <li>Regolith thickness is up to 100 metres across the entire extent of the Jupiter geophysical anomaly that is extensively mineralised at the &gt;1,000 ppm TREO level. The regolith comprises of three main zones: transported cover, upper saprolitic clay and lower saprolite zone.</li> <li>The basement beneath the Jupiter deposit comprises a zoned, heterogeneous medium to coarse grained intrusion that ranges from alkali gabbro and pyroxene syenite through monzodiorite and monzonite to granite. Geological logging of this unit is complemented with a full-suite of bottom of hole multi-element geochemistry for every drill hole.</li> <li>Micro analytical testwork shows that the rare earth elements within the Jupiter deposit are hosted within the REE-phosphate minerals Florencite-Gorceixite-Goyazote, Monazite-Rhabdophane and Xenotime.</li> </ul> |
| Drill hole Information                  | <ul style="list-style-type: none"> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: <ul style="list-style-type: none"> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea</li> </ul> </li> </ul>                                                                                         | <ul style="list-style-type: none"> <li>Location and orientation details are given in Table 1.</li> <li>Drill hole locations were determined using a Stonex S900A DGPS with a nominal accuracy of +/- 0.4 metres.</li> <li>All coordinates and maps presented here are in the MGA Zone 50 GDA94 system.</li> <li>Topographic control is provided by Worldwide 3 arc second SRTM spot height data.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Criteria                                                         | JORC Code Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Commentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
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|                                                                  | <div>level in metres) of the drill hole collar</div> <div><div>- dip and azimuth of the hole</div><div>- down hole length and interception depth</div><div>- hole length.</div></div> <div><div>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.</div></div>                                                                                                                                         | <div><div>Refer to <i>ASX Announcements 9 May 2023, 1 August 2023, 9 November 2023, 29 November 2023, 9 February 2024, 8 March 2024, 16 April 2024, 23 May 2024, 5 June 2024, 17 June 2024, 17 July 2024 and 6 November 2024</i> for historical AC and RC drill results.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
| Data aggregation methods                                         | <div><div>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.</div><div>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.</div><div>The assumptions used for any reporting of metal equivalent values should be clearly stated.</div></div> | <div><div>Full sample assay interval results without aggregation methods are given in Table 2.</div><div>Metal equivalents have not been applied.</div><div>Refer to <i>ASX Announcements 9 May 2023, 1 August 2023, 9 November 2023, 29 November 2023, 9 February 2024, 8 March 2024, 16 April 2024, 23 May 2024, 5 June 2024, 17 June 2024, 17 July 2024 and 6 November 2024</i> for historical AC and RC drill results. Standard element to oxide conversion factors have been used. Individual REE values in Table 1 and 2 are rounded to appropriately reflect reporting precision and the TREO field was calculated on an unrounded basis.</div></div> <table><tr><td>La<sub>2</sub>O<sub>3</sub></td><td>1.173</td><td>Tb<sub>4</sub>O<sub>7</sub></td><td>1.176</td></tr><tr><td>CeO<sub>2</sub></td><td>1.228</td><td>Dy<sub>2</sub>O<sub>3</sub></td><td>1.148</td></tr><tr><td>Pr<sub>6</sub>O<sub>11</sub></td><td>1.208</td><td>Ho<sub>2</sub>O<sub>3</sub></td><td>1.146</td></tr><tr><td>Nd<sub>2</sub>O<sub>3</sub></td><td>1.166</td><td>Er<sub>2</sub>O<sub>3</sub></td><td>1.143</td></tr><tr><td>Sm<sub>2</sub>O<sub>3</sub></td><td>1.16</td><td>Tm<sub>2</sub>O<sub>3</sub></td><td>1.142</td></tr><tr><td>Eu<sub>2</sub>O<sub>3</sub></td><td>1.158</td><td>Yb<sub>2</sub>O<sub>3</sub></td><td>1.139</td></tr><tr><td>Gd<sub>2</sub>O<sub>3</sub></td><td>1.153</td><td>Lu<sub>2</sub>O<sub>3</sub></td><td>1.137</td></tr><tr><td></td><td></td><td>Y<sub>2</sub>O<sub>3</sub></td><td>1.27</td></tr></table> | La <sub>2</sub> O <sub>3</sub> | 1.173 | Tb <sub>4</sub> O <sub>7</sub> | 1.176 | CeO <sub>2</sub> | 1.228 | Dy <sub>2</sub> O <sub>3</sub> | 1.148 | Pr <sub>6</sub> O <sub>11</sub> | 1.208 | Ho <sub>2</sub> O <sub>3</sub> | 1.146 | Nd <sub>2</sub> O <sub>3</sub> | 1.166 | Er <sub>2</sub> O <sub>3</sub> | 1.143 | Sm <sub>2</sub> O <sub>3</sub> | 1.16 | Tm <sub>2</sub> O <sub>3</sub> | 1.142 | Eu <sub>2</sub> O <sub>3</sub> | 1.158 | Yb <sub>2</sub> O <sub>3</sub> | 1.139 | Gd <sub>2</sub> O <sub>3</sub> | 1.153 | Lu <sub>2</sub> O <sub>3</sub> | 1.137 |  |  | Y <sub>2</sub> O <sub>3</sub> | 1.27 |
| La <sub>2</sub> O <sub>3</sub>                                   | 1.173                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Tb <sub>4</sub> O <sub>7</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.176                          |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
| CeO <sub>2</sub>                                                 | 1.228                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Dy <sub>2</sub> O <sub>3</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.148                          |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
| Pr <sub>6</sub> O <sub>11</sub>                                  | 1.208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ho <sub>2</sub> O <sub>3</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.146                          |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
| Nd <sub>2</sub> O <sub>3</sub>                                   | 1.166                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Er <sub>2</sub> O <sub>3</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.143                          |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
| Sm <sub>2</sub> O <sub>3</sub>                                   | 1.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Tm <sub>2</sub> O <sub>3</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.142                          |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
| Eu <sub>2</sub> O <sub>3</sub>                                   | 1.158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yb <sub>2</sub> O <sub>3</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.139                          |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
| Gd <sub>2</sub> O <sub>3</sub>                                   | 1.153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Lu <sub>2</sub> O <sub>3</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.137                          |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Y <sub>2</sub> O <sub>3</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.27                           |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
| Relationship between mineralisation widths and intercept lengths | <div><div>These relationships are particularly important in the reporting of Exploration Results.</div><div>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</div><div>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’).</div></div>                                                                                                                                                                             | <div><div>The intersected clay and saprolite zones blanket a weathered granitoid basement such that downhole thickness approximate true thickness.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
| Diagrams                                                         | <div><div>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.</div></div>                                                                                                                                                                                                                                                                                                             | <div><div>Appropriate exploration maps are included in this release.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |
| Balanced reporting                                               | <div><div>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <div><div>Complete assay results for the announced intersections are included in Table 2.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |       |                                |       |                  |       |                                |       |                                 |       |                                |       |                                |       |                                |       |                                |      |                                |       |                                |       |                                |       |                                |       |                                |       |  |  |                               |      |

| Criteria                           | JORC Code Explanation                                                                                                                                                                                                                                                                                                                                                                                                                   | Commentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                                    | grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Other substantive exploration data | <ul style="list-style-type: none"> <li>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.</li> </ul> | <ul style="list-style-type: none"> <li>Refer to <i>ASX Announcements 9 May 2023, 1 August 2023, 9 November 2023, 29 November 2023, 9 February 2024, 8 March 2024, 16 April 2024, 23 May 2024, 5 June 2024, 17 June 2024, 17 July 2024 and 6 November 2024</i> for historical AC and RC drill results, geochemical results and geophysical survey information.</li> <li>A maiden inferred resource estimate of 1.78 billion tonnes at 1,651 ppm TREO at a 1,000 ppm TREO cut-off grade has been delivered. Refer to <i>ASX Announcement 11 February 2025</i>.</li> <li>The program is part of a grid-based resource definition drill out.</li> <li>Bulk density test work was completed in 2024/2025. Refer to <i>ASX Announcement 11 February 2025</i> for details and results.</li> <li>Significant metallurgical testwork has been completed to date, including beneficiation, flotation, hydrometallurgy, Mixed Rare Earth Oxide and Carbonate production, and pilot plant program development and execution. Refer to <i>ASX Announcements 23 January 2025, 28 May 2025, 29 September 2025, 28 October 2025, 10 November 2025, 2 December 2025, 16 February 2026, 14 April 2026, and 18 May 2026</i> for metallurgical test work results.</li> <li>Geotechnical and hydrogeological work have yet to be completed.</li> </ul> |
| Further work                       | <ul style="list-style-type: none"> <li>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>                                     | <ul style="list-style-type: none"> <li>Results presented here are being used by SRK to upgrade this area from an inferred to indicated Mineral Resource Estimation.</li> <li>Metallurgical test work to optimise the Jupiter flow sheet is ongoing with a pilot plant in operation at the GAVAQ metallurgical laboratory in Vietnam.</li> <li>Hydrometallurgical test work is also being undertaken at ANSTO and Minutec to optimise the production of Mixed Rare Earth Carbonate and Oxide products.</li> <li>Production of MREO and MREC for product qualification purposes.</li> <li>Ongoing test work to establish and optimises biproduct development pathways (Fe, Ga, Y).</li> <li>Appropriate exploration maps and cross sections are included in this release.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |