

Appia Reports New Assay Results Increasing the Total Weighted Average to 2,287 PPM TREO Across 57 RC Drill Holes at its PCH Ionic Clay Project, Brazil

written by Raj Shah | November 9, 2023

November 9, 2023 ([Source](#)) – Appia Rare Earths & Uranium Corp. (CSE: API) (OTCQX: APAAF) (FSE: A0I0.F) (FSE: A0I0.MU) FSE: A0I0.BE) (the “Company” or “Appia”) is pleased to announce the outstanding assay results from the latest 39 drill holes, part of a comprehensive 147-hole Reverse Circulation (RC) drilling program. **The total weighted average across 57 RC drill holes reported to date is 2,287 parts per million (PPM) or 0.23% Total Rare Earth Oxides (TREO).** The PCH Ionic Clay Project continues to showcase impressive distribution, width, and grades, underscoring its significant potential.

Summary:

- **Overall Grade:**Total weighted average of 2,287 parts per million (PPM) or 0.23% Total Rare Earth Oxides (TREO) across 57 RC drill holes reported to date, including:542 ppm or 0.054% Magnet Rare Earth Oxides (MREO), and167 ppm or 0.017% Heavy Rare Earth Oxides (HREO).
- **Highest-Grade Intercepts:**PCH-RC-051 from 0 to 11m End of Hole (EOH):9,279 ppm or 0.93% TREO, and 2,138 ppm or 0.21% MREO, and 464 ppm or 0.046% HREO, including:14,166 ppm or

1.42 % TREO across 4m (from 3m to 7m) with 3,217.05 ppm or 0.32% MREO, and 662 ppm or 0.066% HREO, and 10,098 ppm or 1.01% TREO across 3m (from 8m to 11m EOH) with 2,483 ppm or 0.25% MREO and 550 ppm or 0.05% HREO. PCH-RC-063 from 0 to 24m EOH 27,189 ppm or 2.72% TREO, 6,293 ppm or 0.63% MREO, 1,369 ppm or 0.14% HREO, and 25,819 ppm or 2.59% Light Rare Earth Oxides (LREO). (Previously reported. [See October 31, 2023 Press Release.](#))

“Appia has doubled the average depth of the mineralized zones to over 13 metres, and we now have a total weighted average of 2,287 ppm TREO across all reported drill holes each with significant magnet elements present,” commented Stephen Burega, President. “With this set of results, we can see that the potential of Target IV in terms of distribution, grade, and thickness of mineralization is well beyond our initial expectations.”

“Results from holes like PCH-RC-063 and PC-RC-051 with very high-grade mineralization further validate our understanding and excitement of the project’s geology,” commented Carlos Bastos, Geology Manager and Appia’s Brazilian Qualified Person.

“It is very encouraging for Appia to see more high-grade results occurring within the Target IV area,” stated Tom Drivas, CEO. “Appia will be working with SGS Geological Services to complete a comprehensive NI 43-101 technical report and Mineral Resource Estimate (MRE) on Target IV over the coming months, capitalizing on the promising results we are getting from our recent drilling.”

Appia will provide timely updates to shareholders and the general public as assay results are received from the remaining 90 RC, 106 Auger, and 1 diamond drill holes. The following tables exclude results from the pending 6 RC holes yet to be

received by the Company – RC-PCH-053, 054, 057, 058, 061, and 062.

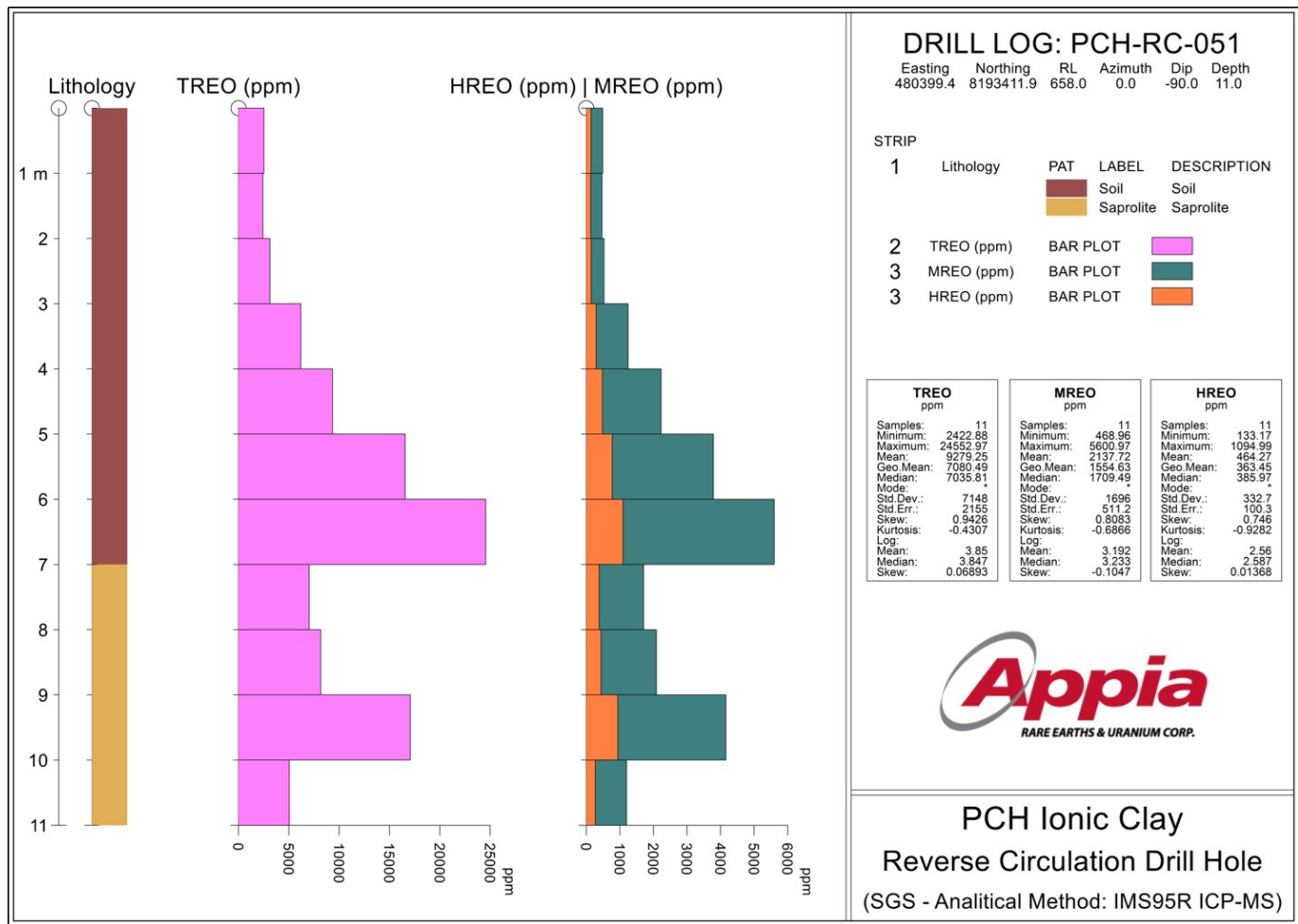


Chart #1 – PCH-RC-051 Drill Log

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/5416/186737_93cfdbbef4fcd866_005full.jpg

| Reverse Circulation Composite Assay (PPM) by SGS Geosol | | | | | | | | |
|---|------------|-------------|-------------|--------------|--------------|------------|------------|------------|
| Hole ID | From | To | Width | TREO | MREO | HREO | MREO/TREO | HREO/TREO |
| PCH-RC-001 | 0.0 | 15.0 | 15.0 | 1,915 | 510 | 292 | 27% | 15% |
| Including | 2.0 | 11.0 | 9.0 | 2,300 | 632 | 366 | 27% | 16% |
| PCH-RC-002 | 0.0 | 15.0 | 15.0 | 2,671 | 606 | 220 | 23% | 8% |
| Including | 8.0 | 14.0 | 6.0 | 5,389 | 1,190 | 412 | 23% | 8% |
| PCH-RC-003 | 0.0 | 11.0 | 11.0 | 488 | 132 | 68 | 27% | 14% |
| PCH-RC-004 | 0.0 | 10.0 | 10.0 | 427 | 115 | 61 | 27% | 14% |
| PCH-RC-005 | 0.0 | 15.0 | 15.0 | 518 | 143 | 70 | 28% | 14% |
| PCH-RC-006 | 0.0 | 15.0 | 15.0 | 383 | 105 | 55 | 27% | 14% |
| PCH-RC-007 | 0.0 | 14.0 | 14.0 | 943 | 250 | 119 | 26% | 13% |
| PCH-RC-008 | 0.0 | 18.0 | 18.0 | 2,752 | 741 | 404 | 27% | 15% |
| Including | 2.0 | 17.0 | 15.0 | 3,084 | 839 | 460 | 27% | 15% |
| PCH-RC-009 | 0.0 | 15.0 | 15.0 | 3,277 | 805 | 252 | 25% | 8% |
| Including | 1.0 | 13.0 | 12.0 | 3,594 | 886 | 275 | 24% | 8% |
| PCH-RC-010 | 0.0 | 12.0 | 12.0 | 1,050 | 260 | 101 | 25% | 10% |
| PCH-RC-011 | 0.0 | 15.0 | 15.0 | 3,717 | 913 | 286 | 25% | 8% |
| Including | 0.0 | 11.0 | 11.0 | 4,182 | 1,035 | 327 | 25% | 8% |
| PCH-RC-012 | 0.0 | 11.0 | 11.0 | 867 | 216 | 89 | 25% | 10% |
| Including | 0.0 | 2.0 | 2.0 | 1,557 | 308 | 112 | 20% | 7% |
| PCH-RC-013 | 0.0 | 14.0 | 14.0 | 1,039 | 226 | 73 | 22% | 7% |
| Including | 0.0 | 6.0 | 6.0 | 1,280 | 275 | 90 | 24% | 8% |
| PCH-RC-014 | 0.0 | 12.0 | 12.0 | 804 | 192 | 71 | 24% | 9% |
| Including | 1.0 | 5.0 | 4.0 | 1,408 | 310 | 111 | 22% | 8% |
| PCH-RC-015 | 0.0 | 13.0 | 13.0 | 1,530 | 393 | 156 | 26% | 10% |
| Including | 0.0 | 9.0 | 9.0 | 1,824 | 485 | 196 | 29% | 12% |
| PCH-RC-016 | 0.0 | 9.0 | 9.0 | 1,077 | 258 | 102 | 24% | 10% |
| Including | 0.0 | 6.0 | 6.0 | 1,362 | 320 | 123 | 26% | 10% |
| PCH-RC-017 | 0.0 | 9.0 | 9.0 | 1,550 | 313 | 110 | 20% | 7% |

Table #1 – Denotes weighted average chemical assay results of composites RC samples from PCH-RC-001 to PCH-RC-017.
(Previously reported. [See October 16, 2023 Press Release – Click Here](#))

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/5416/186737_appial.jpg

| Reverse Circulation Composite Assay (PPM) by SGS Geosol | | | | | | | | |
|---|-------------|-------------|-------------|--------------|--------------|------------|------------|------------|
| Hole ID | From | To | Width | TREO | MREO | HREO | MREO/TREO | HREO/TREO |
| PCH-RC-018 | 0.0 | 18.0 | 18.0 | 1,677 | 363 | 112 | 22% | 7% |
| Including | 2.0 | 14.0 | 12.0 | 1,812 | 395 | 122 | 22% | 7% |
| PCH-RC-019 | 0.0 | 5.0 | 5.0 | 1,655 | 384 | 127 | 23% | 8% |
| PCH-RC-020 | 0.0 | 7.0 | 7.0 | 1,001 | 217 | 81 | 23% | 9% |
| Including | 0.0 | 2.0 | 2.0 | 1,327 | 219 | 81 | 17% | 6% |
| PCH-RC-021 | 0.0 | 18.0 | 18.0 | 1,005 | 229 | 79 | 25% | 9% |
| Including | 6.0 | 14.0 | 8.0 | 1,378 | 296 | 91 | 23% | 8% |
| PCH-RC-022 | 0.0 | 16.0 | 16.0 | 560 | 161 | 79 | 29% | 15% |
| PCH-RC-023 | 0.0 | 15.0 | 15.0 | 1,287 | 320 | 140 | 25% | 11% |
| Including | 3.0 | 15.0 | 12.0 | 1,402 | 347 | 155 | 25% | 11% |
| PCH-RC-024 | 0.0 | 10.0 | 10.0 | 862 | 198 | 64 | 23% | 8% |
| Including | 5.0 | 7.0 | 2.0 | 1,238 | 275 | 74 | 22% | 6% |
| PCH-RC-025 | 0.0 | 16.0 | 16.0 | 549 | 138 | 56 | 26% | 11% |
| PCH-RC-026 | 0.0 | 21.0 | 21.0 | 1,042 | 222 | 85 | 25% | 11% |
| Including | 17.0 | 19.0 | 2.0 | 3,452 | 651 | 159 | 19% | 5% |
| PCH-RC-027 | 0.0 | 15.0 | 15.0 | 1,080 | 235 | 101 | 24% | 11% |
| Including | 0.0 | 6.0 | 6.0 | 1,621 | 312 | 121 | 21% | 8% |
| PCH-RC-028 | 0.0 | 14.0 | 14.0 | 685 | 174 | 88 | 26% | 13% |
| PCH-RC-029 | 0.0 | 16.0 | 16.0 | 685 | 181 | 84 | 28% | 14% |
| Including | 1.0 | 4.0 | 3.0 | 1,229 | 240 | 99 | 19% | 8% |
| PCH-RC-030 | 0.0 | 15.0 | 15.0 | 469 | 138 | 67 | 30% | 14% |
| PCH-RC-031 | 0.0 | 14.0 | 14.0 | 597 | 157 | 67 | 26% | 11% |
| PCH-RC-032 | 0.0 | 12.0 | 12.0 | 431 | 127 | 69 | 29% | 16% |
| PCH-RC-033 | 0.0 | 15.0 | 15.0 | 446 | 120 | 65 | 28% | 15% |
| PCH-RC-034 | 0.0 | 13.0 | 13.0 | 1,432 | 359 | 140 | 26% | 11% |
| Including | 8.0 | 12.0 | 4.0 | 2,955 | 739 | 282 | 25% | 10% |
| PCH-RC-035 | 0.0 | 5.0 | 5.0 | 2,366 | 426 | 124 | 20% | 7% |
| PCH-RC-036 | 0.0 | 5.0 | 5.0 | 1,272 | 278 | 99 | 22% | 8% |
| PCH-RC-037 | 0.0 | 9.0 | 9.0 | 1,444 | 308 | 102 | 21% | 7% |
| PCH-RC-038 | 0.0 | 10.0 | 10.0 | 1,081 | 182 | 59 | 17% | 6% |
| Including | 7.0 | 10.0 | 3.0 | 1,449 | 210 | 56 | 16% | 5% |
| PCH-RC-039 | 0.0 | 27.0 | 27.0 | 2,164 | 508 | 137 | 23% | 7% |
| Including | 2.0 | 5.0 | 3.0 | 1,303 | 256 | 90 | 20% | 7% |
| Including | 6.0 | 27.0 | 21.0 | 2,454 | 588 | 153 | 24% | 6% |
| PCH-RC-040 | 0.0 | 15.0 | 15.0 | 3,900 | 884 | 229 | 22% | 7% |
| Including | 3.0 | 6.0 | 3.0 | 7,984 | 1,858 | 398 | 23% | 5% |
| Including | 10.0 | 15.0 | 5.0 | 4,329 | 983 | 267 | 23% | 7% |
| PCH-RC-041 | 0.0 | 11.0 | 11.0 | 671 | 179 | 69 | 27% | 10% |
| PCH-RC-042 | 0.0 | 11.0 | 11.0 | 671 | 157 | 63 | 24% | 10% |

Table #2 – Denotes weighted average chemical assay results of

composites RC samples from PCH-RC-018 to PCH-RC-042.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/5416/186737_appiat2.jpg

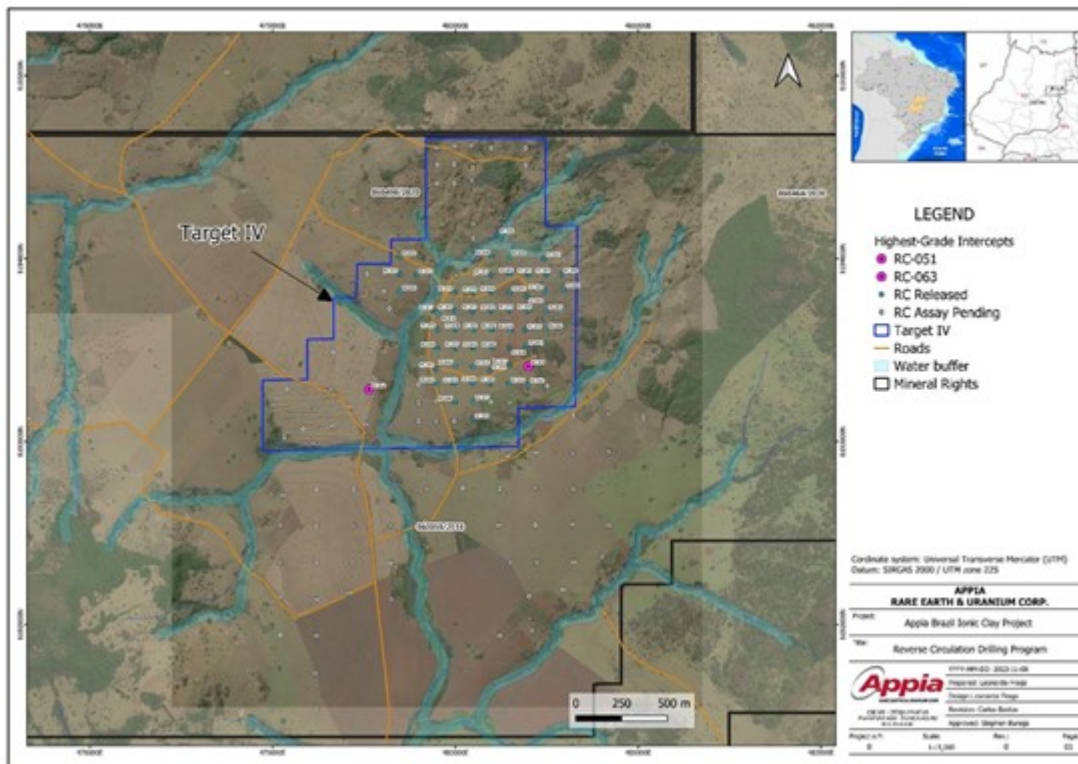
| Reverse Circulation Composite Assay (PPM) by SGS Geosol | | | | | | | | |
|---|-------------|-------------|-------------|---------------|--------------|------------|------------|------------|
| Hole ID | From | To | Width | TREO | MREO | HREO | MREO/TREO | HREO/TREO |
| PCH-RC-043 | 0.0 | 13.0 | 13.0 | 1,749 | 357 | 99 | 21% | 6% |
| Including | 0.0 | 11.0 | 11.0 | 1,939 | 395 | 108 | 21% | 6% |
| PCH-RC-044 | 0.0 | 11.0 | 11.0 | 1,147 | 263 | 83 | 23% | 8% |
| Including | 6.0 | 8.0 | 2.0 | 2,624 | 584 | 173 | 22% | 7% |
| PCH-RC-045 | 0.0 | 12.0 | 12.0 | 1,350 | 318 | 132 | 24% | 10% |
| Including | 0.0 | 3.0 | 3.0 | 1,485 | 193 | 68 | 14% | 5% |
| Including | 5.0 | 8.0 | 3.0 | 1,887 | 552 | 245 | 29% | 13% |
| PCH-RC-046 | 0.0 | 9.0 | 9.0 | 564 | 136 | 59 | 25% | 11% |
| PCH-RC-047 | 0.0 | 10.0 | 10.0 | 1,076 | 273 | 114 | 25% | 10% |
| Including | 4.0 | 8.0 | 4.0 | 1,619 | 452 | 193 | 29% | 13% |
| PCH-RC-048 | 0.0 | 7.0 | 7.0 | 698 | 176 | 74 | 26% | 11% |
| PCH-RC-049 | 0.0 | 9.0 | 9.0 | 791 | 199 | 89 | 26% | 12% |
| PCH-RC-050 | 0.0 | 11.0 | 11.0 | 807 | 222 | 95 | 28% | 12% |
| Including | 3.0 | 6.0 | 3.0 | 1,242 | 391 | 165 | 31% | 13% |
| PCH-RC-051 | 0.0 | 11.0 | 11.0 | 9,279 | 2,138 | 464 | 22% | 5% |
| Including | 3.0 | 7.0 | 4.0 | 14,166 | 3,217 | 662 | 22% | 5% |
| Including | 8.0 | 11.0 | 3.0 | 10,098 | 2,483 | 550 | 25% | 5% |
| PCH-RC-052 | 0.0 | 12.0 | 12.0 | 920 | 262 | 110 | 29% | 13% |
| Including | 0.0 | 3.0 | 3.0 | 1,241 | 295 | 102 | 24% | 8% |
| PCH-RC-055 | 0.0 | 11.0 | 11.0 | 1,560 | 452 | 162 | 28% | 10% |
| Including | 1.0 | 3.0 | 2.0 | 1,398 | 381 | 151 | 27% | 11% |
| Including | 4.0 | 8.0 | 4.0 | 2,152 | 662 | 216 | 30% | 10% |
| PCH-RC-056 | 0.0 | 11.0 | 11.0 | 1,471 | 358 | 122 | 25% | 9% |
| Including | 2.0 | 7.0 | 5.0 | 2,173 | 528 | 167 | 25% | 8% |
| PCH-RC-059 | 0.0 | 12.0 | 12.0 | 1,811 | 429 | 120 | 25% | 7% |
| Including | 0.0 | 6.0 | 6.0 | 2,116 | 494 | 130 | 23% | 6% |
| Including | 10.0 | 12.0 | 2.0 | 3,162 | 733 | 207 | 24% | 7% |
| PCH-RC-060 | 0.0 | 5.0 | 5.0 | 2,060 | 516 | 148 | 25% | 7% |
| PCH-RC-063 | 0.0 | 24.0 | 24.0 | 27,189 | 6,293 | 1,369 | 22% | 5% |

Table #3 – Denotes weighted average chemical assay results of composites RC samples from PCH-RC-043 to PCH-RC-063. (Hole PCH-RC-063 was previously reported. [See October 31, 2023 Press Release – Click Here](#))

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/5416/186737_appiat3.jpg

$$\begin{aligned} \text{TREO} = & ([\text{Ce}_{203} \text{ ppm}] + [\text{Dy}_{203} \text{ ppm}] + [\text{Er}_{203} \text{ ppm}] + [\text{Eu}_{203} \text{ ppm}] + \\ & [\text{Gd}_{203} \text{ ppm}] + [\text{Ho}_{203} \text{ ppm}] + [\text{La}_{203} \text{ ppm}] + [\text{Lu}_{203} \text{ ppm}] + [\text{Nd}_{203} \\ & \text{ppm}] + [\text{Pr}_{6011} \text{ ppm}] + [\text{Sm}_{203} \text{ ppm}] + [\text{Tb}_{407} \text{ ppm}] + [\text{Tm}_{203} \text{ ppm}] + \\ & [\text{Yb}_{203} \text{ ppm}]). \text{MREO} = ([\text{Dy}_{203} \text{ ppm}] + [\text{Pr}_{6011} \text{ ppm}] + [\text{Nd}_{203} \text{ ppm}] + \\ & [\text{Sm}_{203} \text{ ppm}] + [\text{Tb}_{407} \text{ ppm}]). \text{HREO} = [\text{Dy}_{203} \text{ ppm}] + [\text{Er}_{203} \text{ ppm}] + \\ & [\text{Eu}_{203} \text{ ppm}] + [\text{Gd}_{203} \text{ ppm}] + [\text{Ho}_{203} \text{ ppm}] + [\text{Lu}_{203} \text{ ppm}] + [\text{Sm}_{203} \\ & \text{ppm}] + [\text{Tb}_{407} \text{ ppm}] + [\text{Tm}_{203} \text{ ppm}] + [\text{Yb}_{203} \text{ ppm}]). \end{aligned}$$

For a full list of all assays released to date – [PLEASE CLICK HERE](#)



Map #1 – Location of Reverse Circulation Drilling Program, PCH Project, Goiás, Brazil

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/5416/186737_map1.jpg

Table #4. For a full listing of drill hole collar details –

SIRGAS 2000 – UTM zone 22S. [Please click here.](#)

Background on the PCH Project

The PCH Project is located within the Tocantins Structural Province in the Brasília Fold Belt, more specifically, the Arenópolis Magmatic Arc. The PCH Project is 17,551.07 ha in size and located within the Goiás State of Brazil. It is classified as an alkaline intrusive rock occurrence with highly anomalous REE and Niobium mineralization. This mineralization is related to alkaline lithologies of the Fazenda Buriti Plutonic Complex and the hydrothermal and surface alteration products of this complex by supergene enrichment in a tropical climate. The positive results of the recent geochemical exploration work carried out to date indicates the potential for REEs within lateritic ionic adsorption clays and Niobium.

QA/QC

Reverse circulation (RC) drill holes are vertical and reported intervals are true widths. Each are sampled at one metre intervals, resulting in higher average sample sizes of 5-25 kg. A small representative specimen was taken from each sample bag and placed into a chip tray for visual inspection and logging by the geologist. Quartering was performed at Appia's logging facility using a riffle splitter and continued splitting until a representative sample weighing approximately 500g each was obtained, bagged in a resistant plastic bag, labeled, photographed, and stored for shipment.

The samples were sent to the SGS laboratory in Vespasiano, Minas Gerais. In addition to the internal QA/QC of the SGS Lab, Appia has used its own control samples in each batch sent to the laboratory.

Quality control samples, such as blanks, duplicates, and

standards (CRM) were inserted into each analytical run. For all analysis methods, the minimum number of QA/QC samples is one standard, one duplicate and one blank, introduced every batch which comprise a full-length hole. The rigorous procedures implemented during the sample collection, preparation, and analysis stages underscore the robustness and reliability of the analytical results obtained.

All analytical results reported herein have passed internal QA/QC review and compilation. All assay results of RC samples were provided by SGS Geosol, an ISO/IEC 17025:2005 certified laboratory, which performed their measure of the concentration of rare earth elements (REE) analyses by Inductively Coupled Plasma Mass Spectrometry (ICP-MS) analytical methods.

The technical content in this news release was reviewed and approved by Mr. Don Hains, P.Geo, Consulting Geologist, and a Qualified Person as defined by National Instrument 43-101.

About Appia Rare Earths & Uranium Corp.

Appia is a publicly traded Canadian company in the rare earth element and uranium sectors. The Company is currently focusing on delineating high-grade critical rare earth elements and gallium on the Alces Lake property, as well as exploring for high-grade uranium in the prolific Athabasca Basin on its Otherside, Loranger, North Wollaston, and Eastside properties. The Company holds the surface rights to exploration for 113,837.15 hectares (281,297.72 acres) in Saskatchewan. The Company also has a 100% interest in 12,545 hectares (31,000 acres), with rare earth element and uranium deposits over five mineralized zones in the Elliot Lake Camp, Ontario. Lastly, the Company holds the right to acquire up to a 70% interest in the PCH Project which is 17,551.07 ha. in size and located within the Goiás State of Brazil. (See June 9th, 2023 Press Release

– [Click Here](#))

Appia has 130.5 million common shares outstanding, 143.3 million shares fully diluted.

Cautionary Note Regarding Forward-Looking Statements: *This News Release contains forward-looking statements which are typically preceded by, followed by or including the words “believes”, “expects”, “anticipates”, “estimates”, “intends”, “plans” or similar expressions. Forward-looking statements are not a guarantee of future performance as they involve risks, uncertainties and assumptions. We do not intend and do not assume any obligation to update these forward- looking statements and shareholders are cautioned not to put undue reliance on such statements.*

Neither the Canadian Securities Exchange nor its Market Regulator (as that term is defined in the policies of the CSE) accepts responsibility for the adequacy or accuracy of this release.

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