

# **Appia Confirms Outstanding Desorption Results From Its Ionic Adsorption Clay Targets Maia, Electra, Taygeta and Merope in Goias, Brazil**

20.08.2024 | [Newsfile](#)

Toronto, August 20, 2024 - [Appia Rare Earths & Uranium Corp.](#) (CSE: API) (OTCQX: APAAF) (FSE: A010) (MUN: A010) (BER: A010) (the "Company" or "Appia") announced today the initial desorption test results from the Ionic Adsorption Clay (IAC) rare earth elements (REE) targets Maia, Electra, Taygeta and Merope at the PCH project. A total of 89 samples from 13 auger drillholes were sent to ALS Laboratories in Lima, Peru (ALS), and the results consistently confirmed the REE IAC mineralization style on all targets developed over the Ipora Granite. The results show very good recoveries of Magnet Rare Earth Oxides (MREO) and Heavy Rare Earth Oxides (HREO).

Stephen Burega, President, said, "The four (4) new targets are showing higher levels of heavy rare earths as we continue to explore to the East of the property, with excellent Dy and Tb recovery values at Merope and Taygeta targets, representing a significant increase in desorption levels. These are important results that demonstrate further that we have discovered a notable ionic clay rare earths deposit. Our project has many superior characteristics including its hosting in easy to dig clays, a desirable diversity of metals including the "rare" rare earths, the high grades encountered and the large scope of the project. Industry has a growing need for rare earths in a stable and western jurisdiction and we are committed to offer a solution."

Drill crews are working daily in order to expand the IAC mineralization over this significant project area. The Company continues to see very favourable kinetics across all of the ALS desorption testing. With these increases in Dysprosium (Dy) and Terbium (Tb) recoveries, the PCH project continues to demonstrate its potential as a future source for these extremely important minerals for the permanent magnet industry.

## Highlights

- Discrete desorption interval samples from auger drillholes located on Ipora Granite lithology (see Map 1) returned recoveries up to:
- 72% ~~TREO~~ Significant additional ~~recovery~~ ~~recovery~~ up to 100% for intervals in the main mineralized zone were:
- 82% HREO on auger drillhole PCH-AH-202 from 3 to 4 metres.
- 84% ~~TREO~~ 5m @ 58% TREO 183190 HREO 485% NdPr 72% TbDy from 3m.
- 82% ~~TREO~~ 4m @ 56% TREO 159207 HREO 370% NdPr 56% TbDy from 2m.
  - PCH-AH-190 4m @ 47% TREO; 47% HREO; 61% NdPr; 55% TbDy from 1m.
  - PCH-AH-194 3m @ 40% TREO; 38% HREO; 68% NdPr; 36% TbDy from 3m.
  - PCH-AH-097 4m @ 34% TREO; 46% HREO; 55% NdPr; 48% TbDy from 2m.
  - PCH-AH-036 7m @ 37% TREO; 44% HREO; 63% NdPr; 47% TbDy from 3m.
- The results of the main mineralized zone and from the full auger drillhole length from all tested drillholes are presented in Table 1 below. The full set of results are available through this [LINK](#). The auger hole coordinates are presented in Table 2 below.
- Desorbability tests were conducted by ALS using an Ammonium Sulfate solution at 0.5M, pH2, for 20 minutes at room temperature.

Table 1 - Full length and main desorption zone (bold) recovery results of all drillholes tested. To view the full list of results, please [click here](#).

To view an enhanced version of this graphic, please visit:  
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\*Total Rare Earth Oxides: TREO =  $Y_2O_3 + Eu_2O_3 + Gd_2O_3 + Tb_4O_7 + Dy_2O_3 + Ho_2O_3 + Er_2O_3 + Tm_2O_3 + Yb_2O_3 + Lu_2O_3 + La_2O_3 + CeO_2 + Pr_6O_{11} + Nd_2O_3 + Sm_2O_3$

\*Heavy Rare Earth Oxides: HREO =  $Gd_2O_3 + Tb_4O_7 + Dy_2O_3 + Ho_2O_3 + Er_2O_3 + Tm_2O_3 + Yb_2O_3 + Lu_2O_3 + Y_2O_3$

\*NdPr =  $Nd_2O_3 + Pr_6O_{11}$

\*DyTb =  $Dy_2O_3 + Tb_4O_7$

\*Element to Oxide Conversion Factor - Cerium CeO<sub>2</sub> 1.2284, Dysprosium Dy<sub>2</sub>O<sub>3</sub> 1.1477, Erbium Er<sub>2</sub>O<sub>3</sub> 1.1435, Europium Eu<sub>2</sub>O<sub>3</sub> 1.1579, Gadolinium Gd<sub>2</sub>O<sub>3</sub> 1.1526, Holmium Ho<sub>2</sub>O<sub>3</sub> 1.1455, Lanthanum La<sub>2</sub>O<sub>3</sub> 1.1728, Lutetium Lu<sub>2</sub>O<sub>3</sub> 1.1371, Neodymium Nd<sub>2</sub>O<sub>3</sub> 1.1664, Praseodymium Pr<sub>6</sub>O<sub>11</sub> 1.2082, Samarium Sm<sub>2</sub>O<sub>3</sub> 1.1596, Terbium Tb<sub>2</sub>O<sub>3</sub> 1.1510, Terbium Tb<sub>4</sub>O<sub>7</sub> 1.1762, Thulium Tm<sub>2</sub>O<sub>3</sub> 1.1421, Yttrium Y<sub>2</sub>O<sub>3</sub> 1.2699, Ytterbium Yb<sub>2</sub>O<sub>3</sub> 1.1387

\* ppm=parts per million and D=the desorbed Amount

\* Desorability results were conducted using Ammonium Sulfate at 0.5M, pH2, for 20 minutes.

Map 1 - Location of auger drillholes entirely tested for REE desorption from Targets Maia, Electra, Merope and Taygeta.

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Table 2 - Sampled Auger holes coordinates

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Andre Costa, VP Exploration for Brazil, commented, "These exciting results confirm the potential for REE Ionic Desorption Clay mineralization on all tested new targets. All of them over the Ipora Granite. We are on the right path in characterizing the Maia, Electra, Taygeta and Merope targets in the PCH Project and we will continue to focus drilling on these new targets to determine recoverability and delineate their extension since they remain open on all directions."

On March 1<sup>st</sup>, 2024, the Company announced its maiden Mineral Resource Estimate (MRE) on Target IV and the Buriti Zone (Click here for the Press Release), and the companion NI 43-101 technical report on the PCH Project was filed on April 16<sup>th</sup>, 2024. (Click here for the Press Release)

QAQC

Auger drillholes are vertical and reported intervals are true thickness. The material produced from auger holes are sampled at one metre intervals, resulting in average sample sizes of 5-10 kg. Quartering of the material 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 bagged samples are sent to the ALS laboratory in Goiânia, Goias for initial preparation and sent to Lima Peru for final analysis. In addition to the internal QA/QC of the ALS Lab, Appia includes its own control samples in each batch of samples 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 two standard, one duplicate and one blank, introduced in each batch which comprises full-length hole(s). The rigorous procedures are implemented during the sample collection, preparation, and analytical stages to insure the robustness and reliability of the analytical results.

All analytical results reported herein have passed internal QA/QC review and compilation. All assay results of RC samples were provided by ALS, a Certified Laboratory, which performed their measure of the concentration of rare earth elements (REE) with the ME-MS81 analytical method that uses lithium borate fusion prior acid dissolution and Inductively Coupled Plasma Mass Spectrometry (ICP-MS). Major Element Oxides were done using ME\_ICP06 analytical method using lithium borate fusion and inductively coupled plasma atomic emission spectroscopy (ICP-AES). Desorption analysis with ME-MS19 analytical method with samples being leached with a solution of Ammonium Sulphate at 0.5 molar, pH 2, room temperature for 20 minutes. The leached solution content was analysed using ICP-AES/ICP-MS.

The technical information in this news release, including the information related to geology, drilling, and mineralization, has been reviewed and approved by Andre L. L. Costa, Appia's VP Exploration for Brazil, with more than 29 years of relevant experience. Mr. Costa is a APEGS Professional Geoscientist (P.Geo.) and a Fellow of Australian Institute of Geoscientists (FAIG), a Qualified Person (QP) as defined by National Instrument 43-101 - Standards of Disclosure for Mineral Projects.

#### About Appia Rare Earths & Uranium Corp. (Appia)

Appia is a publicly traded Canadian company in the rare earth element and uranium sectors. The Company holds the right to acquire up to a 70% interest in the PCH Ionic Adsorption Clay Project (See June 9<sup>th</sup>, 2023 Press Release - [Click HERE](#)) which is 40,963.18 ha. in size and located within the Goiás State of Brazil. (See January 11<sup>th</sup>, 2024 Press Release - [Click HERE](#)) The Company is also focusing on delineating high-grade critical rare earth elements and gallium on the Alces Lake property, and 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 94,982.39 hectares (234,706.59 acres) in Saskatchewan. The Company also has a 100% interest in 13,008 hectares (32,143 acres), with rare earth elements and uranium deposits over five mineralized zones in the Elliot Lake Camp, Ontario.

Appia has 136.8 million common shares outstanding, 145.5 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.

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For more information, visit [www.appiareu.com](http://www.appiareu.com)

As part of our ongoing effort to keep investors, interested parties and stakeholders updated, we have several communication portals. If you have any questions online (X, Facebook, LinkedIn) please feel free to send direct messages.

To book a one-on-one 30-minute Zoom video call, please [click here](#).

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