

# VR Resources confirms additional broad intersections of Critical Metals at its Hecla-Kilmer property and breccia target in Northern Ontario

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VANCOUVER, June 28, 2022 - [VR Resources Ltd.](#) (TSX.V: VRR, FSE: 5VR; OTCQB: VRRCF), the "Company", or "VR", has received the assay data from the first two drill holes from the recently completed third drill program at its Hecla-Kilmer ("H-K") property located in northern Ontario. New critical metal intersections are highlighted below. Results for the six remaining holes are expected over the next 2 – 4 weeks.

- 80 metres at 0.67% TREO within 131 metres at 0.41% TREO in Hole HK22-010;
- 13 metres at 0.94% TREO within 88 metres at 0.50% TREO in Hole HK22-011.

Individual one metre samples from the 13 metre intersection in Hole 11 contain up to 2.3% TREO (Total Rare Earth Oxide), up to 39.1% Fe<sub>2</sub>O<sub>3</sub>, and up to 11.2% P<sub>2</sub>O<sub>5</sub>.

Table 1. Summary of the broad intersections of Critical Metals made to date at Hecla-Kilmer.

Figure 1. Plan map with the location of all 17 drill holes completed in the first three drill programs at Hecla-Kilmer, plotted on an RTP magnetic basemap covering the entire complex.

Figure 2. Drill hole locations and key Critical Metal intersections in the northwestern portion of H-K, plotted on a 1VD magnetic map derived from the ultra- high resolution drone survey completed in 2022.

Figure 3. Down-hole geochemical plot from drill hole HK22-010 and HK22-011 showing the polymetallic nature of the 131 and 88 metre intersections of Critical Metals respectively, including light and medium-heavy REE's, and niobium and tantalum.

Drill core photos in Figure 4 and Figure 5 are from the 88 metre intersection in Hole 11. Hydrothermal veins of fluorite and apatite host REE's at H-K, and they commonly occur within a potassic alteration mineral assemblage that is dominated by magnetite and which completely replaces the host rock.

From VR's CEO, Dr. Michael Gunning, "These new data confirm the potential for a large volume of Critical Metals in the polymetallic breccia system discovered at Hecla-Kilmer by VR.

"Scale is important. VR has now confirmed REE's and critical metals in 7 of 11 drill holes at Hecla-Kilmer, over intervals ranging from 50 to 299 metres, with total REE concentrations of 0.5% on average, and up to 2.3 % TREO. Mineralization spans an area of approximately 700 x 1000 metres in the northwestern part of the complex, extending from the base of till at 42 metres in Hole 4 to more than 600 metres depth in Hole 2.

"Composition is also important. The ratio of up to 20% MH-TREO (middle and heavy Rare Earth Oxide) within the 13 metre intersection of 0.94 % TREO (total Rare Earth Oxide) in Hole 11 is more than double compared to the intersections in previous drilling. The heavy REE's Dysprosium and Terbium are more valuable, for example, because they are essential in the production of permanent magnets used in electric vehicles and wind energy turbines.

"This new drilling also confirms the polymetallic nature of the hydrothermal breccia system at H-K. The intersection of 0.27% Nb over 80 metres in Hole 10 compliments the 237 metres @ 0.2% Nb in Hole 5 from last year, with TREO of 0.5 - 0.67 % on average across the broad intersections, and up to 1.7%.

"Hydrothermal breccia and high temperature alteration at H-K are controlled by structures. As shown on the RTP magnetic map in Figure 2, mineralization is now evident on both sides of the main north-south fault with anomalous gold values, and along a strike length of more than 500 metres. Further, the new intersection in Hole 11 shows that the opposing east-west fault is also mineralized, with data pending for Holes 13 (vertical), 14, and 17 located farther to the west. In addition, the magnetic anomalies located some 1,000 metres farther to the east along strike of this fault have yet to be drilled (see Figure 1).

“Drill core samples were submitted to the laboratories in sequence, as the holes were completed, so we now anticipate receiving the remainder of our data over the next four weeks, or so. The potassic alteration and hydrothermal veins and breccia which host the mineralization reported herein for Holes 10 and 11 are evident to the same extent in Holes 13, 14 and 17.

“The potential of this discovery lies in the polymetallic nature of the intersections made to date, and the sheer scale of the hydrothermal breccia system both laterally and vertically. The relevance of H-K to the rapidly developing critical metal strategies of governments across North America underscores its potential value to VR, and we look forward to providing further updates as new data are received.”

**Table 1: REE and Critical Metal Intersections, Hecla-Kilmer**

Drill hole (m)	Released Length (m)	From (m) TREO(1) (%)	To MHREO(2) (%)	MH-T(3)	Li2O		
HK22-011	New	227	315	88	0.50	0.11	21
including	New	276	289	13	0.94	0.19	20
HK22-010	New	86	217	131	0.41	0.04	12
including	New	86	166.07	80.07	0.67	0.07	
HK21-008	NR-21-25	144	179	35	0.42	0.03	
and	NR-21-25	237	357	120	0.58	0.04	8.2
including	NR-21-25		305	342	37	0.74	0.05
including	NR-21-25		324	335	11	0.79	0.05
and	NR-21-25	120	272.15	152.15	0.54	0.05	
including	NR-21-25		120	129	9	0.97	0.09
including	NR-21-25		196	202	6	0.91	0.08
including	NR-21-25		242	262	20	0.80	0.07
including	NR-21-25		243	247	4	1.75	0.15
HK21-005	NR-21-22	52	351.53	299.53	0.47	0.04	0.04
including	NR-21-22		80.75	318.21	237.46	0.49	0
including	NR-21-22		152	180	28	0.80	0.08
including	NR-21-22		156	159	3	1.70	0.18
including	NR-21-22		183	238	55	0.44	0.03
including	NR-21-22		186	190	4	0.61	0.04
including	NR-21-22		275	306	31	0.61	0.04
including	NR-21-22		299	306	7	0.86	0.06
HK20-002	NR-21-17	159.60	183	23.4	0.63	0.06	0.06
and	NR-21-17	553	606	53.00	0.51	0.05	9
including	NR-21-17		566.65	585	18.35	0.67	0.07
	0.14	18.8	548				
HK20-004	NR-21-20	40.30	98.40	58.10	0.38	0.04	0.04
including	NR-21-20		57	60.21	3.21	1.44	0.15
including	NR-21-20		67.23	78	10.77	0.35	0.04

(1) TREO is the summation of Ce2O3 + La2O3 + Pr2O3 + Nd2O3 + Sm2O3 + Eu2O3 + Gd2O3 + Tb2O3 + Dy2O3 + Ho2O3 + Er2O3 + Tm2O3 + Yb2O3 + Lu2O3 + Y2O3

(2) MHREO is the sum of the middle and heavy rare earth oxides (Sm2O3 + Eu2O3 + Gd2O3 + Tb2O3 + Dy2O3 + Ho2O3 + Er2O3 + Tm2O3 + Yb2O3 + Lu2O3 + Y2O3)

(3) MH-T is MHREO divided by TREO, expressed as a percent.

## Background

Hecla-Kilmer (“H-K”) is a large and multiphase alkaline intrusive complex with carbonatite. It is 4 – 6 km in size, Proterozoic in age, and was emplaced along the western margin of the crustal-scale Kapuskasing structural zone which bisects the Archean Superior Craton in northern Ontario.

A shallow, six-hole diamond drill program was completed in 1970 as part of a regional base metal exploration

program by Ashland Oil and Elgin Petroleum. One hole was abandoned, and a scant 854 metres were completed in total in the other five holes, all on magnetic highs in the outer concentric zones of the complex. There is no record of drill core sampling or geochemical data. Selco Exploration Company completed two drill holes in 1981 on peripheral magnetic highs as part of a regional diamond exploration program; they intersected altered ultra-basic rocks and black breccia in the outer, concentric zones of the multiphase complex at H-K. After this historical drilling, a regional airborne magnetic survey was completed in 1993 for ongoing diamond exploration, and it provided a high-resolution of detail for the entire H-K complex.

The opportunity for VR is to be the first company to apply modern IOCG and carbonatite mineral deposit models to explore the multiphase H-K complex and hydrothermal breccia system as a whole, and to use new exploration technologies not previously available when the historic drilling was done.

VR completed the first airborne EM survey over H-K in June, 2020, using the state-of-the-art VTEM+ system of Geotech Ltd. Flown at 100 m line spacing over a 6 x 7 km survey block for a total of 450 line-km, the data provide a high resolution of detail. The Company also completed an independent, 3-D inversion of both magnetic and EM data, for improved modeling of the complex in three dimensions. A detailed, ground-based gravity survey covering an area of 1.5 x 3.5 km was completed in the winter season of 2021, with high-resolution data generated from 597 stations on an equant grid spacing of 100 m.

VR completed four drill holes for a total of 1,971 metres in October, 2020, targeting the northern MVI (magnetic inversion) anomaly at H-K. The Company followed up that drilling in October, 2021, with the completion of five additional holes for a total of 2,604 metres, targeting the high contrast, 3.5 mGal gravity anomaly that is co-spatial with, but slightly offset from the MVI anomaly. Fluorite-carbonate hydrothermal breccia was discovered, extending from bedrock surface to 600 m depth, and hosted in a high temperature, sulfide-bearing calc-potassic alteration system and containing broad intersections up to 299 metres long with REE's and Critical Metals, and elevated copper and gold locally.

There are four different styles of mineralization evident: 1. REE's and critical metals in fluorite-apatite-magnetite hydrothermal breccia with carbonatite veins and dykes; 2. lithium mineralization in hydrothermal breccia; 3. copper sulfide in veinlets with iron and silica, and; 4. elevated hydrothermal gold related to syenite porphyry dykes.

A state-of-the-art, ultra-high resolution drone magnetic survey was completed in the fall of 2021, and expanded in March of 2022, in order to: 1. cover the entire complex at H-K, and; 2. identify vectors for how best to follow up on the hydrothermal breccia intersections with critical metals and gold in the first two drill programs. The final survey is 3.4 x 4.5 km in size, comprising 121 lines at both 25 and 50 m line-spacing for a total of 410 line-km. The survey produces a very high resolution of data because of the tight line spacing, the low "tree-top" flight altitude of just 30 metres above ground, and a computerized flight control paired with a new, very high sensitivity potassium-vapour magnetometer.

## **Technical Information**

Summary technical and geological information for the Company's various exploration properties is available at the Company's website at [www.vrr.ca](http://www.vrr.ca).

VR submitted all drill core samples for geochemical assay to the ALS Global Ltd. ("ALS") laboratory facilities in Timmins, Ontario, with final geochemical analytical work done at the ALS laboratory located in North Vancouver, BC., including lithium borate fusion, ICP-MS and ICP-AES analyses for base metals, trace elements and full-suite REE analysis, and gold determination by atomic absorption on fire assay. Analytical results are subject to industry-standard and NI 43-101 compliant QAQC sample procedures externally by the Company and internally at the laboratory as described by ALS.

Technical information for this news release has been prepared in accordance with the Canadian regulatory requirements set out in National Instrument 43-101. Justin Daley, P.Geo., Exploration Manager and Chief Geologist at VR and a non-independent Qualified Person oversees and/or participates in all aspects of the Company's mineral exploration projects, and the content of this news release has been reviewed on behalf of the Company by the CEO, Dr. Michael Gunning, P.Geo., a non-independent Qualified Person.

## **About the Hecla-Kilmer Property**

The Hecla-Kilmer complex is located 23 km northwest of the Ontario hydro-electric facility at Otter Rapids, the Ontario Northland Railway, and the northern terminus of Highway 634 which links the region to the towns of Cochrane and Kapuskasing to the south, located on the northern Trans-Canada Highway.

The H-K property is large. It consists of 224 mineral claims in one contiguous block approximately 6 x 7 km

in size and covering 4,617 hectares. The property is owned 100% by VR. There are no underlying annual lease payments on the property, nor are there any joint venture or back-in interests. There is an industry-standard royalty attached to the property, including a buy-back provision in favour of VR.

Like the Ranoke property, H-K is located on provincial crown land, with mineral rights administered by the Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry (“MNDM”). There are no annual payments, but the MNDM requires certain annual exploration expenditures and reporting. The property falls within the traditional territories of the Moose Cree and Taykwa Tagamou First Nations.

### **About VR Resources**

VR is an established junior exploration company focused on greenfields opportunities in copper, gold and critical metals (TSX.V: VRR; Frankfurt: 5VR; OTCQB: VRRCF). VR is the continuance of 4 years of active exploration in Nevada by a Vancouver-based private company. The diverse experience and proven track record of its Board in early-stage exploration, discovery and M&A is the foundation of VR. The Company focuses on underexplored, large-footprint mineral systems in the western United States and Canada, and is well-financed for its exploration strategies and corporate obligations. VR owns its properties outright and evaluates new opportunities on an ongoing basis, whether by staking or acquisition.

The Company continues its normal course of business in 2022 within the framework of modified exploration programs in response to the COVID-19 pandemic, with the goal of ensuring the health and safety of staff and project personnel.

ON BEHALF OF THE BOARD OF DIRECTORS:

“Michael H. Gunning”  
Dr. Michael H. Gunning, PhD, PGeo, President & CEO

### **For general information please use the following:**

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### **Forward Looking Statements**

This press release contains forward-looking statements. Forward-looking statements are typically identified by words such as: believe, expect, anticipate, intend, estimate, postulate and similar expressions or those which, by their nature, refer to future events. Forward looking statements in this release include those related to the companies upcoming plans, such as “The potential of this discovery lies in the polymetallic nature of the intersections made to date, and the sheer lateral and vertical scale of the hydrothermal breccia system”, and “VR evaluates new opportunities on an ongoing basis, whether by staking or acquisition.”

This news release contains statements and/or information with respect to mineral properties and/or deposits which are adjacent to, and/or potentially similar to the Company’s mineral properties, but which the Company has no interest in nor rights to explore. Readers are cautioned that mineral deposits on similar properties are not necessarily indicative of mineral deposits on the Company’s properties.

Although the Company believes that the use of such statements is reasonable, there can be no assurance that such statements will prove to be accurate, and actual results and future events could differ materially from those anticipated in such statements. The Company cautions investors that any forward-looking statements by the Company are not guarantees of future performance, and that actual results may differ materially from those in forward-looking statements. Trading in the securities of the Company should be considered highly speculative. All of the Company’s public disclosure filings may be accessed via [www.sedar.com](http://www.sedar.com) and readers are urged to review these materials.

Neither the TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in Policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release.

Figure 1. Drill hole locations relative to the outline of the overall multiphase intrusive complex at H-K, plotted

on a contoured RTP magnetic base map with superimposed 3D isoshells from the MVI magnetic inversions.  
<https://www.globenewswire.com/NewsRoom/AttachmentNg/87d18afc-3617-46c8-8483-a8fc6911be12>

Figure 2. Drill hole locations and key REE intersections in the northwestern portion of the H-K complex, plotted on the 1VD magnetic map derived from the ultra- high resolution drone magnetic survey completed in 2022. Note the strong correlation between vertical derivative magnetic boundaries and phoscorite veins and the development of potassic, fenite alteration.

<https://www.globenewswire.com/NewsRoom/AttachmentNg/5a469368-f8ea-457f-b9c8-16c2bafaf34c>

Figure 3. Down-hole geochemical plot showing the polymetallic nature of the 80 metre intersection of Critical Metals in Hole 10 (86-166 metres) and 88 metre intersection in Hole 11 (227-315 metres), including both the light and medium-heavy REE's (MHREO), and niobium. The mineralization occurs within potassic alteration in both holes (shown in pink). Of note is the MHREO content, up to 30% of TREO in both holes, and nearly double the concentration of MHREO compared to previous holes drilled completed in 2021 farther to the west, into higher temperature calc-potassic alteration with stronger niobium mineralization. The MHREO content is important because it includes terbium and dysprosium oxides, which are more valuable because they are essential for the production of permanent magnets used in electric vehicles and wind energy turbines.

<https://www.globenewswire.com/NewsRoom/AttachmentNg/1c1a8469-8c40-448b-96bb-7047e2a858a7>

Figure 4. Photograph of drill core at 223 metres in drill hole HK22-011. Nearly complete replacement of alkaline shonkinite host rock by potassic, fenite alteration consisting of magnetite-biotite-calcite-amphibole which is most intense around phoscorite (carbonatite) and fluorite (blue-purple colour) vein breccia.

<https://www.globenewswire.com/NewsRoom/AttachmentNg/2191b0d1-d8c9-4ac6-9ce6-873ae5ce20a4>

Figure 5. Photograph of drill core at 289 metres in drill hole HK22-011. Top row shows nearly 100% complete replacement of alkaline ijolite host rock evident in the lower row by potassic, fenite alteration consisting of massive, fine-grained, inter-crystalline magnetite, biotite, apatite and calcite. This core is within the 13 metre interval grading 0.94% TREO, with up to up to 2.3% TREO and 20% MH-TREO by ratio (middle and heavy Rare Earth Oxide), and containing up to 39.1% Fe<sub>2</sub>O<sub>3</sub>, 11.2% P<sub>2</sub>O<sub>5</sub> over one metre intervals. The orange spots are resorbed potassium feldspar phenocrysts, the only remaining mineral of the ijolite host rock.

<https://www.globenewswire.com/NewsRoom/AttachmentNg/d6cfe58c-a86d-4aec-b7a2-81d5bbc9ea36>

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