

ERDENE EXPANDS HIGH-GRADE MINERALIZATION AT DARK HORSE PROSPECT, GENERATES NEW TARGETS

Press Release
Halifax, Nova Scotia
2022.11.23

Erdene Resource Development Corporation (TSX: ERD | MSE: ERDN) (“Erdene” or the “Company”) is pleased to announce results from recent drilling at the Dark Horse prospect, located approximately two kilometers north of its Bayan Khundii Gold Project in the Khundii Minerals District (the “District”) in southwest Mongolia.

Highlights¹

- Intersected high-grade, near-surface gold in Dark Horse Mane South
 - 39.6 g/t gold over 6 metres within 12 metres of 20.2 g/t gold (AAD-218)
 - 34.4 g/t gold over 3 metres within 11 metres of 13.0 g/t gold (AAD-217)
 - 13.7 g/t gold over 1 metre within 18.6 metres of 4.6 g/t gold (AAD-215)
 - 11.0 g/t gold over 1 metre within 13 metres of 1.9 g/t gold (AAD-216)
- Intercepted deep, high-grade zone at Dark Horse Mane North
 - 11.2 g/t gold over 2 metres within 8 metres of 4.1 g/t gold (AAD-194)
 - Deepest intersection along trend to date demonstrating potential at depth
- Confirmed potential of new East Mane target, 500 metres east of Dark Horse Mane

Quotes from the Company

“Recent drilling at our Dark Horse prospect successfully expanded high-grade mineralization along the 1.5 kilometre Dark Horse Mane trend and produced multiple targets in adjacent areas,” said Peter Akerley, Erdene’s President and CEO. “Today’s results include the highest grade intervals to date at Dark Horse Mane North and also confirm the discovery of the new East Mane target.”

“Since discovering our Khundii Minerals District, we have delineated over nine kilometres of prospective gold bearing structures connecting our Bayan Khundii, Ulaan and Dark Horse deposits,” continued Mr. Akerley. “Plans are being finalized for the next phase of drilling along this trend and throughout the broader Khundii-Ulaan alteration system.”

Summary of Results

The Q3 2022 Dark Horse drill program, completed in September 2022, was designed to confirm and expand gold mineralization in this prospect, located approximately two kilometres north of Erdene’s shovel-ready Bayan Khundii Gold Project. The 20-square-

¹ Reported intervals in this release are downhole apparent widths. Continued exploration is required to confirm anisotropy of mineralization and true thicknesses

kilometre Dark Horse prospect comprises the northern portion of the Company's Khundii mining and Ulaan exploration licenses. Drilling to date at Dark Horse has focused on the Dark Horse Mane ("DHM") prospect, a 1.5-kilometre, north-south oriented, mineralized trend discovered in early 2021, that remains open along strike to the north and south and at depth. Along this trend, Erdene has delineated southern and northern zones, referred to as Dark Horse Mane South and Dark Horse Mane North, respectively, and recently identified the East Mane prospect that was drill tested in Q3 2022.

The recently completed drilling program consisted of 29 holes (including one hole extension) totaling 2,417 metres. Exploration was focused on Dark Horse Mane South, Dark Horse Mane North as well as targets adjacent to the Dark Horse Mane mineralized trend identified through the reverse circulation ("RC") drill program completed in mid-2022, geophysics and surfacing sampling. Highlights from the Q3 2022 Dark Horse drill program are provided below in Table 1. A drill hole plan map, section, and comprehensive table of results are attached to this release.

Table 1: Drilling Assay Highlights Summary
(Intervals averaging greater than 1.0 g/t gold)

Prospect	Hole ID	From (m)	To (m)	Interval ⁽¹⁾	Au g/t
Dark Horse Mane South	AAD-191	86	88	2	1.82
	And	182	183	1	1.54
	AAD-214	2	20 ⁽²⁾	18	5.85
	Incl	4	10	6	10.51
	Incl	4	6	2	12.02
	Incl	8	10	2	15.41
	Incl	16	17	1	14.84
	AAD-215	1.4	20 ⁽²⁾	18.6	4.62
	Incl	8	12	4	10.80
	AAD-216	2	15 ⁽²⁾	13	1.94
	Incl	12	13	1	10.96
	AAD-217	0	11	11	12.99
	Incl	2	8	6	20.59
	Incl	2	5	3	34.43
Dark Horse Mane North	Incl	7	8	1	11.17
	AAD-218	0	12 ⁽²⁾	12	20.20
	Incl	5	11	6	39.62
	AAD-166	56	70	14 ⁽³⁾	1.10
	And	96	98	2	3.72
	And	127	136	9	1.05
	AAD-194	159	167	8	4.14
	Incl	161	163	2	11.23
	AAD-196	27	28	1	1.12
	AAD-208	40	52	12	2.28

	AAD-209	52	68	16	1.30
East Mane	AAD-193	62	65	3	2.13

1. Reported intervals in this release are downhole apparent widths. Continued exploration is required to confirm anisotropy of mineralization and true thicknesses
2. End of hole
3. Previously reported interval

Drilling at Dark Horse Mane South was comprised of seven holes totaling 543 metres, including five near surface, large diameter (PQ), diamond drill holes, totaling 82 metres (AAD-214 to AAD-218). The PQ holes were drilled to confirm continuity of grade and geometry of shallow, very high-grade mineralization and to collect material for process test work. Multiple zones of high-grade mineralization were intersected within 15 metres of surface, with several one-metre intervals returning grades exceeding 10 g/t gold, including a one-metre interval grading 88.5 g/t gold (AAD-218; 6 to 7 metres), interpreted as supergene enrichment. Two holes at DHM South, AAD-191 and AAD-192, were designed to test extension of mineralization at depth. These holes, collared in the northern and southern portions of DHM South, respectively, successfully expanded the area of alteration and mineralization at depth, returning up to 1.82 g/t gold over two metres (AAD-191), as well as strongly anomalous indicator element mineralization (As and Sb).

Within the 750 metre northern portion (DHM North) of the mineralized trend, 1,013 metres, over 13 holes (12 new holes and one hole extension) were drilled to test the potential of the prospect at depth and along strike. This drilling returned the highest grade mineralization to date in this target area, with hole AAD-194 intersecting 2 metres of 11.2 g/t gold within 8 metres averaging 4.1 g/t gold, beginning 159 metres down hole (112 metres true depth), demonstrating high grade gold continuing with depth. Mineralization is structurally controlled and associated with strongly brecciated and oxidized core. In addition to hole AAD-194, holes AAD-198 and AAD-199 extended mineralization 30 metres south along strike, returning intervals including 6 metres of 0.34 g/t gold and 9 metres averaging 0.46 g/t gold, respectively, within oxidized core. Furthermore, hole AAD-205, in the central portion of DHM North, intersected multiple gold bearing zones, including an interval that returned 19 metres of 0.97 g/t gold, beginning 122 metres down hole (85 metres vertical depth), suggesting strong vertical continuity, that remains open, with increasing gold grades at depth. Holes AAD-208 and AAD-209 returned 12 metres averaging 2.28 g/t gold and 16 metres of 1.30 g/t gold, respectively, demonstrating mineralization has strong vertical (down dip) continuity. Finally, previously reported hole AAD-166 was extended from 80 metres to 142 metres, intersecting multiple gold bearing zones, including 9 metres of 1.05 g/t gold, associated with quartz-hematite veins.

A further nine holes, totaling 861 metres were drilled to test high priority targets within a 700 metre by 1 kilometre area east of the Dark Horse Mane target, identified through the recently completed RC drill program, geochemical surveys and geophysical anomaly interpretation. Most importantly, in a new area, now referred to as the East Mane Target, hole AAD-193, located 480 metres east of DHM, returned 3 metres of 2.13 g/t gold within a thick unit of intensely white mica altered andesite porphyry. This hole is located at a NS and NE structural intersection and within an area of magnetic low / chargeability high, very similar to the geological environment of DHM South. Additionally, holes AAD-212 and AAD-213 followed up on AAD-193, and returned anomalous gold and strongly

anomalous indicator element mineralization (As and Sb), suggesting close proximity to potential gold mineralization. Several of the other holes drilled in the area returned elevated gold and indicator elements (As and Sb). Taken together, the results show mineralizing fluids were present throughout the target area, confirming East Mane as an exciting new prospect. Follow-up exploration is warranted and will be undertaken in the coming months.

Ulaan Southeast Follow-up Drilling Q3 2022

In addition to the exploration at Dark Horse, Erdene drilled three step-out holes on the western and northern periphery of the main mineralized zone at Ulaan Southeast, expanding mineralization at this recent discovery. Highlights from these holes are included below:

Table 2: Ulaan Drilling Assays Summary
(Intervals averaging greater than 0.30 g/t gold)

Hole ID	From (m)	To (m)	Interval ⁽¹⁾	Au g/t
UDH-54	264	297	33	0.30
And	318	320	2	0.36
UDH-55	206	209	3	0.30
And	232	236	4	0.31
And	256	259	3	1.14
And	271	295	24	0.49
Incl	279	283	4	1.67
And	318	348	30	0.31
And	370	376	6	0.31
UDH-56	406	407	1	0.42
And	426	428	2	0.43

1. Reported intervals in this release are downhole apparent widths. Continued exploration is required to confirm anisotropy of mineralization and true thicknesses

Holes UDH-54 and UDH-55 were drilled to test the western extension of gold mineralization, stepping out from holes UDH-21 and UDH-18, respectively. Both holes expanded mineralization west, with UDH-54 returning a 33 metre interval averaging 0.33 g/t gold, hosted within thick, strongly silicified and pervasively altered (white mica and adularia) tuff, and UDH-55 intersecting multiple zones of gold mineralization including 24 metres of 0.49 g/t gold and 30 metres averaging 0.31 g/t gold within quartz hematite veins. Drill hole UDH-56, collared 40 metres north of UDH-20, intersected the lapilli tuff host rock and anomalous gold mineralization at depth.

Projects Overview

Erdene's deposits are in the Trans Altai Terrane, within the Central Asian Orogenic Belt, host to some of the world's largest gold and copper-gold deposits. The Company has been the leader in exploration in southwest Mongolia over the past decade and is responsible for the discovery of the Khundii Minerals District comprised of multiple high-grade gold and base metal prospects, one of which is currently being developed, the

100%-owned Bayan Khundii Gold Project, and another which is being considered for development, the 100%-owned Altan Nar Project. The Khundii Minerals District is currently defined based on three gold and base metal systems related to shallow subduction Paleozoic intrusive events within a 40-kilometre by 20-kilometre area in the Trans Altai Terrane (formerly known as the Erden Terrane). Recent exploration program focused on the two gold-dominant systems:

Bayan Khundii (Rich Valley): Low sulfidation epithermal gold deposits and prospects (BK Deposit, Dark Horse, Ulaan and Altan Arrow) overprinted on a high temperature, intrusive related alteration zone, located along a 12-kilometres trend related to deep seated northeast trending structures along a regional dilation zone and strike slip fault system. Current Resources¹ for the BK gold deposit include 585,100 ounces of 2.19 g/t gold Measured and Indicated (“M&I”)² and 35,900 ounces of Inferred resources at 2.18 g/t gold. Resources have not yet been established for the Dark Horse, Ulaan or Altan Arrow discoveries at Bayan Khundii.

An overview of the recent Dark Horse Mane and Ulaan discoveries in the Khundii Minerals District are included below.

Dark Horse Mane

Dark Horse Mane is a 1.5-kilometre trend of alteration and gold mineralization discovered in 2021. Located 2.4 kilometers north of the BK deposit, this zone begins at surface, hosting supergene enriched gold zones including an exceptionally high-grade gold bearing zone in the southern portion with values up to 195 g/t gold over 1 metre (AAD-178) and ranging in thickness from 20 to 60 metres vertical depth with locally deeper oxidation along fractures. The high-grade oxide body exhibits strong continuity along a north-south strike. Mineralization remains open along strike and at depth. Limited deeper drilling has intersected wide zones of gold mineralization (e.g., AAD-57, 48 metres of 1.18 g/t gold from 194 metres down hole) associated with epithermal veins, white mica, and sulfide alteration up to 230 metres vertical depth and remaining open.

The Company conducted data compilation, interpretation and drill hole targeting for the broader Dark Horse prospect area in late 2021 and early 2022. This work focused on gold anomalism, identifying feeder structures, shallow oxide gold mineralization, and areas with similar characteristics to Dark Horse Mane, as well as the potential for deeper zones of gold mineralization. This work defined numerous drill targets for testing, several of which were reported on in today’s release.

Ulaan

The Ulaan gold target is a blind-top discovery identified in Q3 of 2021. The discovery is characterized by hundreds of metres of gold mineralization (up to 354 metres) over an area 200 metres by 250 metres. Gold mineralization begins approximately 80 metres from surface and remains open along strike to the west/northwest and at depth. Intervals include 152 metres of 1.7 g/t gold in UDH-22 (from 85 metres) and 77 metres of 3.2 g/t gold in UDH-21 (from 115 metres). Similar to the BK gold deposit, located 300 metres to the east, the mineralizing event is characterized by exceptionally high-grade quartz ± hematite and adularia veins and stockwork zones enveloped by the same gold bearing, silicified, white mica altered lapilli tuff sequence. Stockwork zones identified in the

northern portion of the Ulaan discovery were the target of the initial Q2 2022 drilling and helped to better define the orientation and extent of these exceptionally high-grade zones where intervals of 5 metres of 20 g/t gold (UDH-14) to 1 metre to 156 g/t gold (UDH-21) have been returned within broad high grade zones including 27 metres of 8.74 g/t gold (UDH-21) and 34 metres of 5.43 g/t gold (UDH-14). In addition, the 2022 exploration program included the extension of a series of existing drill holes to test for continuity at depth. Expansion drilling at Ulaan Southeast is ongoing.

The southern portion of the Ulaan license has areas of anomalous gold-in-soil over an area 3.5 kilometres by 1 kilometre. The underlying geology and alteration appear to be analogous to the gold mineralization at Ulaan Southeast and Bayan Khundii, namely tuffaceous units with white mica and silica alteration.

Altan Nar (Golden Sun): Intermediate sulfidation, carbonate base metal gold deposits and prospects located along a 5.6-kilometre long alteration zone located within a regional north-northeast trending structural corridor within which structural intersections or zones of dilation provide the setting for the emplacement of broader zones of mineralization. Current Resource for Altan Nar includes an Indicated gold-only resource of 317,700 ounces at a grade of 2.0 g/t gold and an Inferred gold-only resource of 185,700 ounces at a grade of 1.7 g/t gold.

About Erdene

Erdene Resource Development Corp. is a Canada-based resource company focused on the acquisition, exploration, and development of precious and base metals in underexplored and highly prospective Mongolia. The Company has interests in three mining licenses and an exploration license in Southwest Mongolia, where exploration success has led to the discovery and definition of the Khundii Minerals District. Erdene Resource Development Corp. is listed on the Toronto and the Mongolian stock exchanges. Further information is available at www.erdene.com. Important information may be disseminated exclusively via the website; investors should consult the site to access this information.

Qualified Person and Sample Protocol

Peter Dalton, P.Geo. (Nova Scotia), Senior Geologist for Erdene, is the Qualified Person as that term is defined in National Instrument 43-101 and has reviewed and approved the technical information contained in this news release. All samples have been assayed at SGS Laboratory in Ulaanbaatar, Mongolia. In addition to internal checks by SGS Laboratory, the Company incorporates a QA/QC sample protocol utilizing prepared standards and blanks. All samples undergo standard fire assay analysis for gold and ICP-OES (Inductively Coupled Plasma Optical Emission Spectroscopy) analysis for 33 additional elements. For samples that initially return a grade greater than 5 g/t gold, additional screen-metallic gold analysis is carried out which provides a weighted average gold grade from fire assay analysis of the entire +75 micron fraction and three 30-gram samples of the -75 micron fraction from a 500 gram sample.

Erdene's drill core sampling protocol consisted of collection of samples over 1 or 2 metre intervals (depending on the lithology and style of mineralization) over the entire length of the drill hole, excluding minor post-mineral lithologies and un-mineralized granitoids. Sample intervals were based on meterage, not geological controls, or mineralization. All drill core was cut in half with a diamond saw, with half of the core placed in sample bags and the remaining half securely retained in core boxes at Erdene's Bayan Khundii exploration camp. All samples were organized into batches of 30 including a commercially prepared standard, blank and either a field duplicate, consisting of two quarter-core intervals, or a laboratory duplicate. Sample batches were periodically shipped directly to SGS in Ulaanbaatar via Erdene's logistical contractor, Monrud Co. Ltd.

Reported intervals are apparent thicknesses, i.e., downhole widths. The current Bayan Khundii drill holes (reported in this release) are all dipping from 45 to 60 degrees and oriented to intersect SW dipping WNW trending gold bearing veins. Additional study is required to confirm true widths. Reported grades for intervals are weighted averages based on length of sampling intervals. No top cut has been applied; however, all intervals greater than 10 g/t gold and 100 g/t gold are reported individually for clarity

Forward-Looking Statements

Certain information regarding Erdene contained herein may constitute forward-looking statements within the meaning of applicable securities laws. Forward-looking statements may include estimates, plans, expectations, opinions, forecasts, projections, guidance, or other statements that are not statements of fact. Although Erdene believes that the expectations reflected in such forward-looking statements are reasonable, it can give no assurance that such expectations will prove to have been correct. Erdene cautions that actual performance will be affected by a number of factors, most of which are beyond its control, and that future events and results may vary substantially from what Erdene currently foresees. Factors that could cause actual results to differ materially from those in forward-looking statements include the ability to obtain required third party approvals, market prices, exploitation, and exploration results, continued availability of capital and financing and general economic, market or business conditions. The forward-looking statements are expressly qualified in their entirety by this cautionary statement. The information contained herein is stated as of the current date and is subject to change after that date. The Company does not assume the obligation to revise or update these forward-looking statements, except as may be required under applicable securities laws.

NO REGULATORY AUTHORITY HAS APPROVED OR DISAPPROVED THE CONTENTS OF THIS RELEASE

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Appendix – Drilling Assays Summary, Dark Horse AAD holes
 (Holes with intervals averaging greater than 0.30 g/t gold)

Prospect	Hole ID	From (m)	To (m)	Interval ⁽¹⁾	Au g/t
Dark Horse Mane South	AAD-191	20	25	5	0.33
	And	29	31	2	0.30
	And	52	54	2	0.37
	And	68	92	24	0.57
	Incl	86	88	2	1.82
	And	183	188	5	0.81
	AAD-192	91	92	1	0.88
	AAD-214	2	20 ⁽²⁾	18	5.85
	Incl	4	10	6	10.51
	Incl	4	6	2	12.02
	Incl	8	10	2	15.41
	Incl	16	17	1	14.84
	AAD-215	1.4	20 ⁽²⁾	18.6	4.62
	Incl	8	12	4	10.80
	AAD-216	2	15 ⁽²⁾	13	1.94
	Incl	12	13	1	10.96
	AAD-217	0	15 ⁽²⁾	15	8.73
	Incl	2	8	6	20.59
	Incl	2	5	3	34.43
	Incl	7	8	1	11.17
AAD-218	0	12 ⁽²⁾	12	20.20	
Incl	5	11	6	39.62	
Dark Horse Mane North	AAD-166	56	70	14 ⁽³⁾	1.10
	And	94	118	24	0.67
	And	127	136	9	1.05
	AAD-194	159	167	8	4.14
	Incl	161	163	2	11.23
	AAD-196	13	15	2	0.35
	And	27	28	1	1.12
	AAD-198	5	6	1	0.31
	And	16	17	1	0.30
	And	35	41	6	0.34
	And	47	49	2	0.56
	AAD-199	14	23	9	0.46
	AAD-204	24	29	5	0.67
	And	76	80	4	0.38

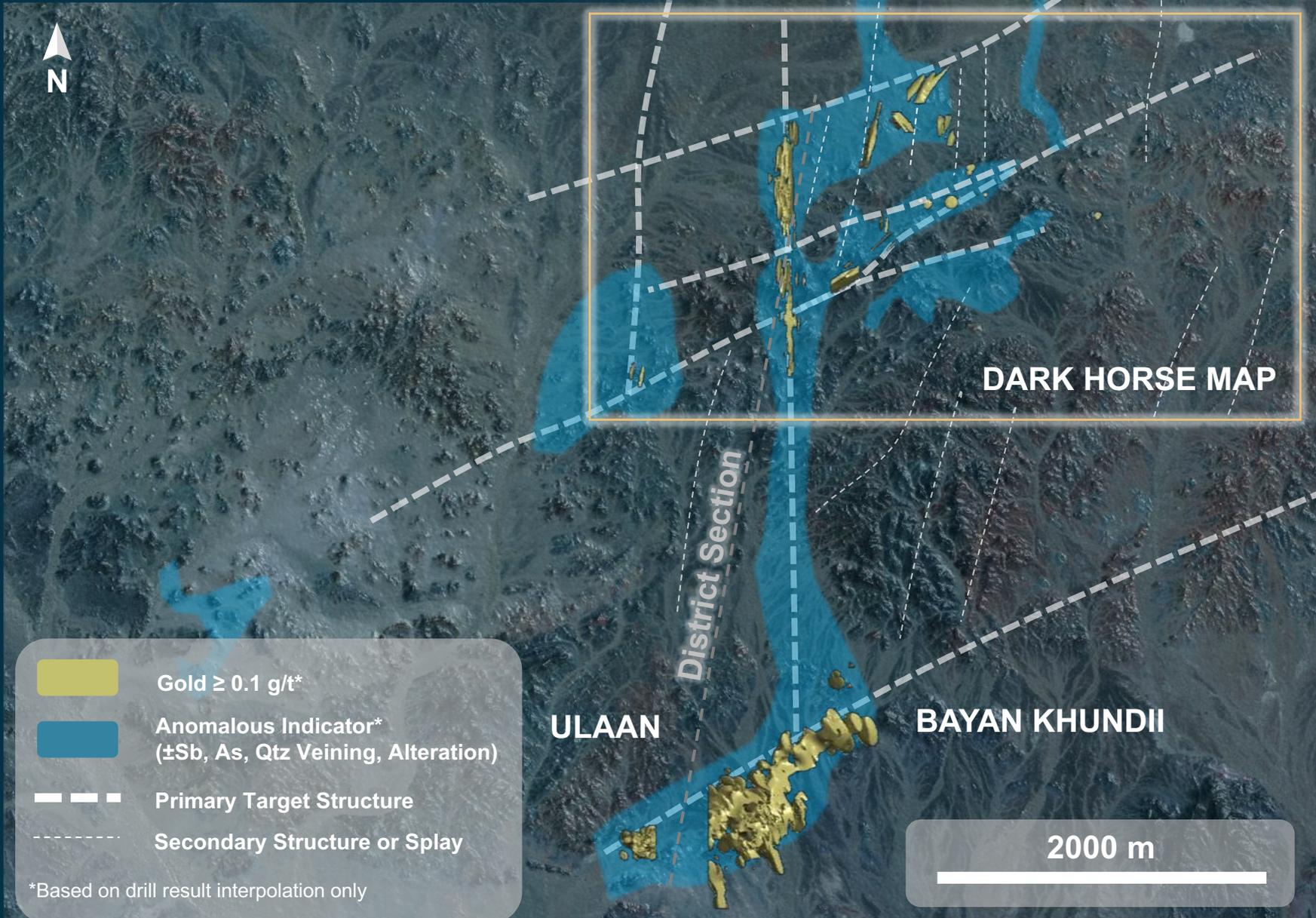
	AAD-205	10	12	2	0.30
	And	57	63	6	0.37
	And	114	116	2	0.30
	And	122	141	19	0.97
	AAD-206	30	31 ⁽²⁾	1	0.37
	AAD-208	40	52	12	2.28
	AAD-209	32	38	6	0.40
	And	42	44	2	0.39
	And	52	68	16	1.30
	AAD-210	20	21	1	0.30
	And	30	33	3	0.36
	And	37	40 ⁽²⁾	3	0.34
	AAD-211	18	27	9	0.63
	And	34	40 ⁽²⁾	6	0.32
East Mane	AAD-193	62	65	3	2.13
	And	67	70	3	0.31
	And	74	76	2	0.36
	AAD-202	38	40	2	0.61
	AAD-203	64	66	2	0.33
	AAD-212	2.2	4	1.8	0.42
	And	19	20	1	0.34
	And	27	28	1	0.30
	AAD-213	58	60	2	0.31

1. Reported intervals in this release are downhole apparent widths. Continued exploration is required to confirm anisotropy of mineralization and true thicknesses
2. End of hole
3. Previously reported interval

THE KHUNDII MINERALS DISTRICT PLAN MAP

Structural Complex

Multiple High-Grade Gold Targets



THE KHUNDII MINERALS DISTRICT SECTION – STAGES OF DEVELOPMENT

An Expanding Footprint of High-Grade Gold Deposits



 Gold $\geq 0.1\text{g/t}^*$

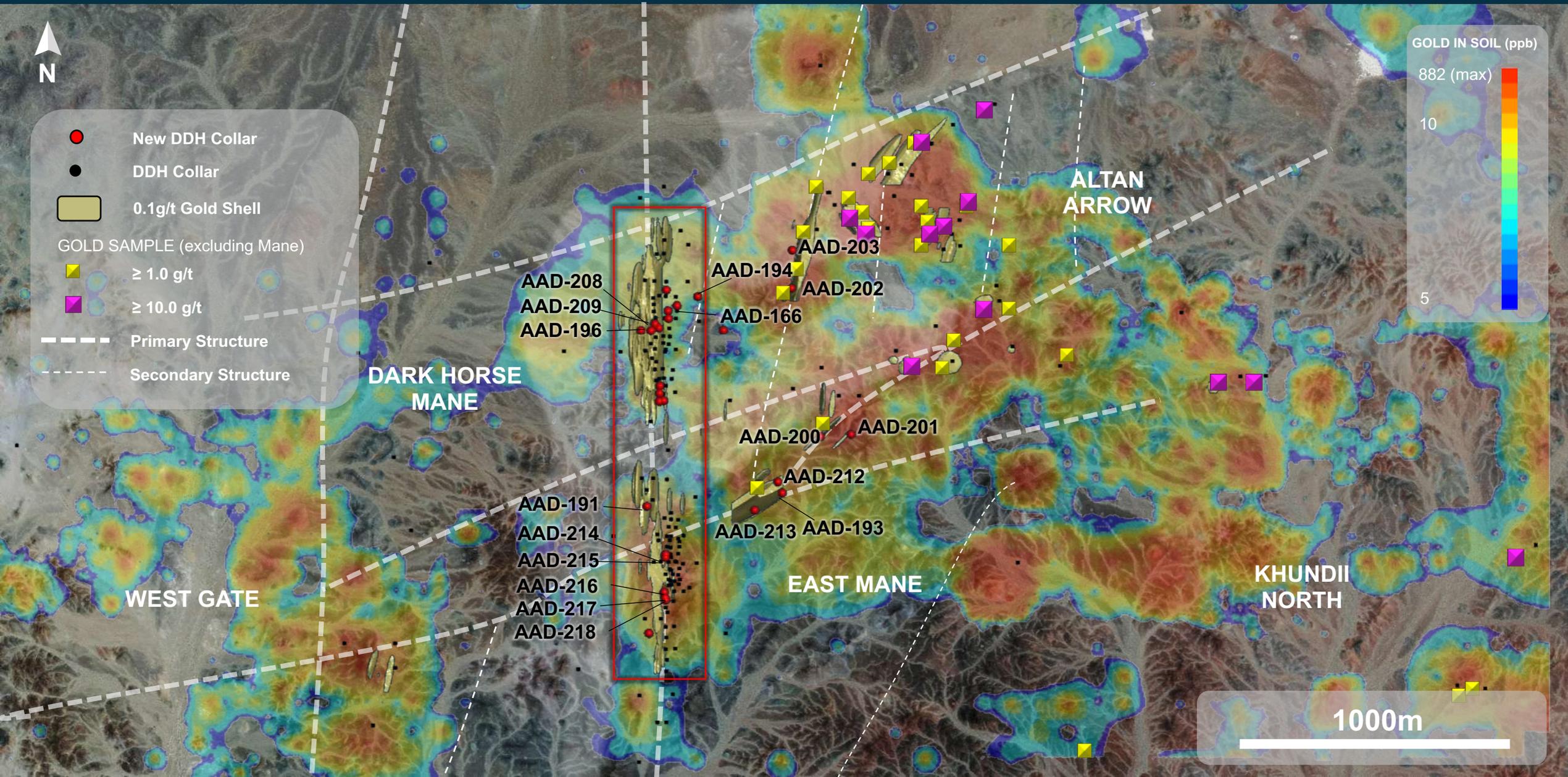
 Anomalous Indicator* ($\pm\text{Sb}$, As, Qtz Veining, Alteration)

*Based on drill result interpolation only



DARK HORSE PROSPECTS PLAN MAP

High-Grade Gold Targets



DARK HORSE MANE – PLAN MAP AND SECTIONS

DARK HORSE MANE Plan View

Long Section 1

South Mane

North Mane



DARK HORSE MANE Long Section 1

750m



Looking West



OPEN

OPEN

- New DDH Collar

GOLD GRADE SHELL

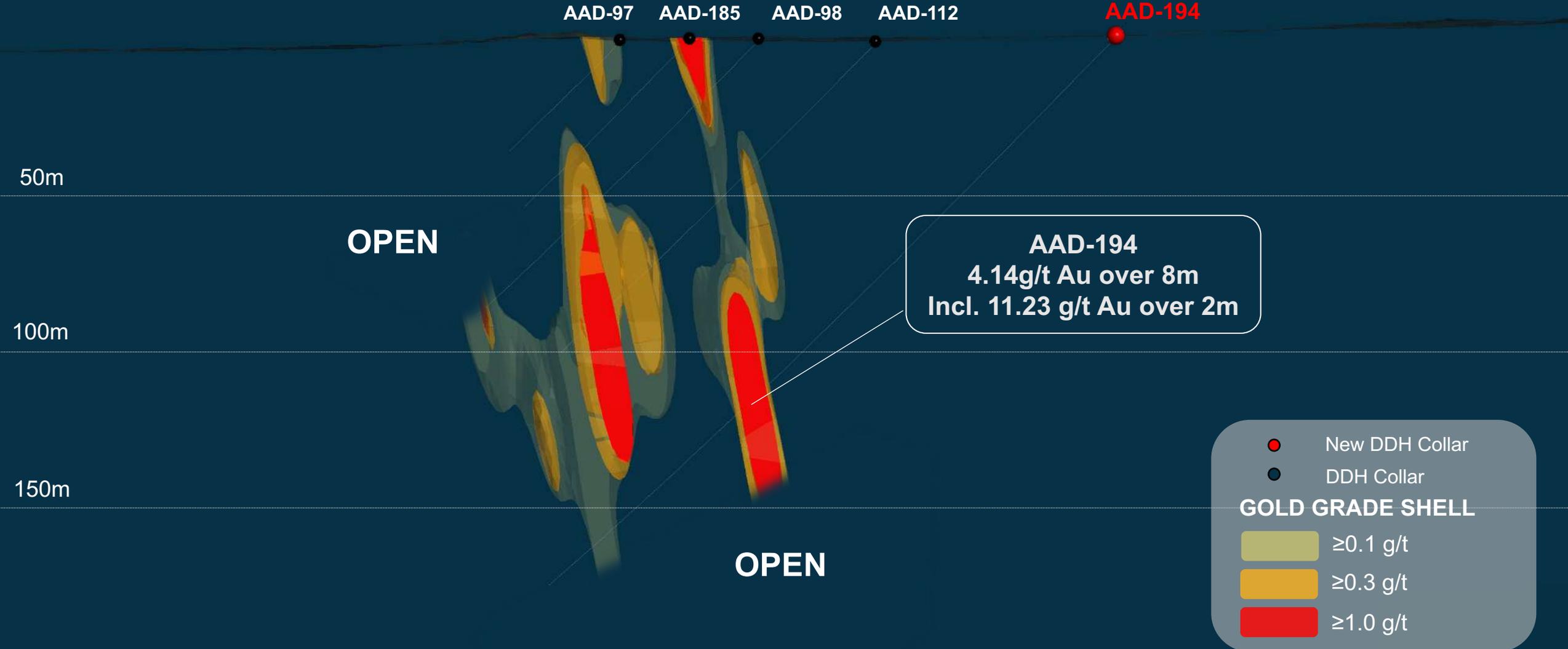
- $\geq 0.1\text{g/t}$
- $\geq 0.3\text{g/t}$
- $\geq 1.0\text{g/t}$

Hole ID	Au Grade (g/t)	Interval (m)	Downhole Depth (m)	Notes
AAD194	4.14	8	159	Incl. 2m of 11.23 g/t Au
AAD214	5.85	18	2	Incl. 6m of 10.51 g/t Au
AAD215	4.62	18.6	1.4	Incl. 4m of 10.80 g/t Au
AAD216	1.94	13	2	Incl. 1m of 10.96 g/t Au
AAD217	8.73	15	Surface	Incl. 6m of 20.59 g/t Au
AAD218	20.20	12	Surface	Incl. 6m of 39.62 g/t Au

DARK HORSE MANE – CROSS SECTION 1

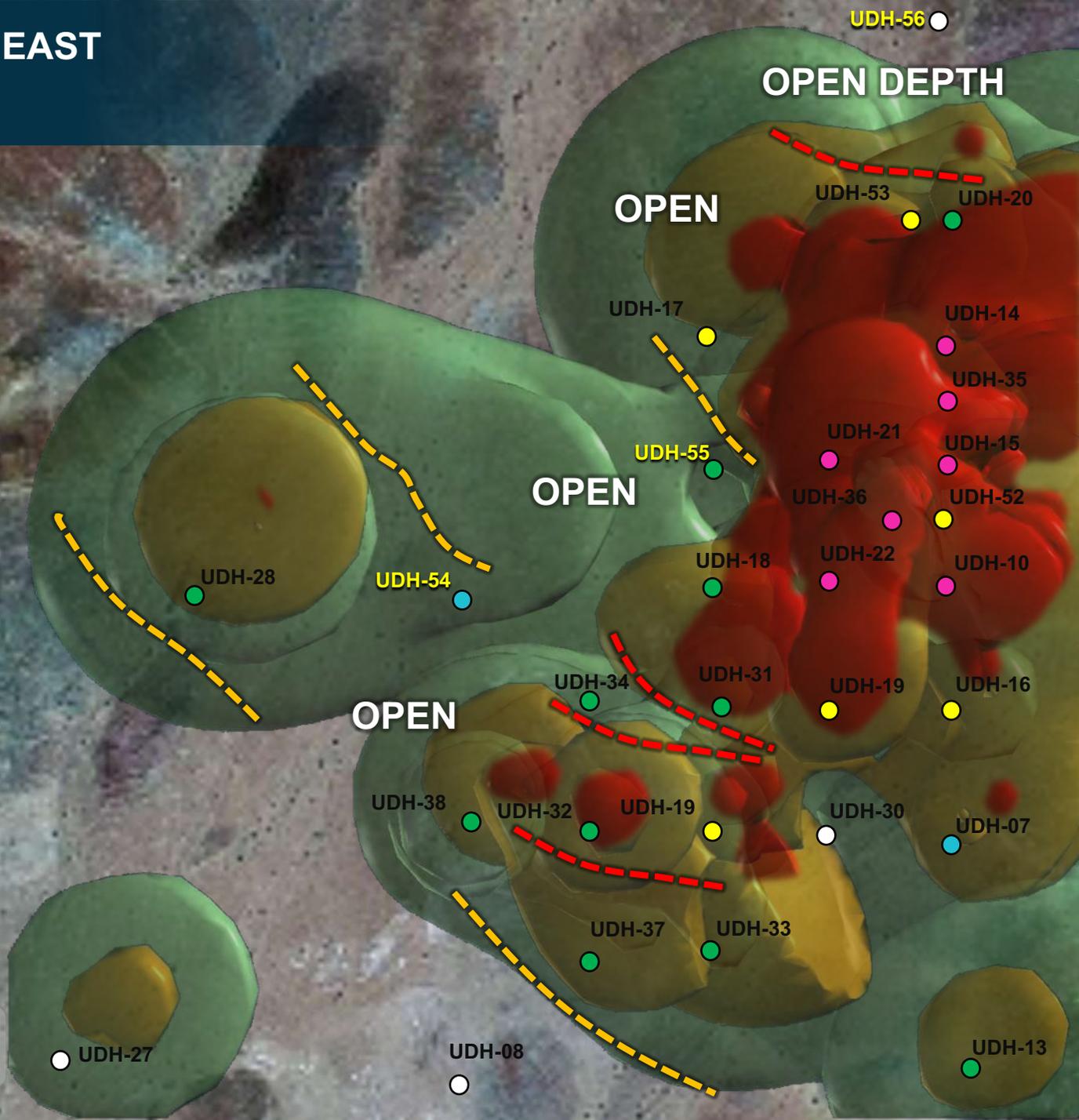
An Expanding Footprint of High-Grade Gold Deposits

Looking North



ULAAN SOUTHEAST PLAN MAP

ULAAN SE GOLD PROSPECT Q4 2022 FOLLOW-UP DRILLING High-Grade Expansion Program



Drill Collar (Gram x Meter)

- ≥ 200
- ≥ 50
- ≥ 10
- ≥ 5
- < 5

Interpolated Grade Shell

- 0.3 g/t Au
- 1.0 g/t Au
- ≥2.0 g/t Au

UDH Reported Hole

UDH Previous Hole

50m

