



EXPLORATION UPDATE
14 April 2010

Greatland Gold plc (the "Company"), the mineral exploration and development company focused on gold projects in Tasmania and Western Australia, announces an exploration update.

Re-sampling of reverse circulation drill holes at the Warrentinna project has confirmed the high grade nature of gold mineralisation. Results include 5m at 29.26g/t gold from 36m, including 1m at 103.07g/t gold. Mineralisation remains open to the north, south and at depth.

Warrentinna

A program of Reverse Circulation ("RC") drilling was completed at the Derby North prospect during late 2009. All RC holes were drilled to a maximum depth of 100m and angled at 60 degrees. Single metre re-sample results have now been received.

Results from 1m re-sampling include 5m at 29.26g/t gold from 36m, including 1m at 103.07g/t gold. Silver reported a maximum of 7g/t over 1m intervals. Re-sample results over 1g/t gold are presented in Table 1.

Table 1 – RC 1m Re-Sample Results

Hole ID	From (m)	To (m)	Interval (m)	Gold (g/t)	Silver (g/t)
WTR013	36	41	5	29.26	
incl.	36	39	3	47.99	6.00
and	37	38	1	103.07	7.00
WTR013	83	86	3	2.99	
incl.	84	85	1	5.09	
WTR013	90	92	2	2.39	
WTR014	10	11	1	11.49	
WTR016	38	39	1	1.22	
WTR018	14	15	1	2.82	
WTR018	22	23	1	1.79	
WTR018	26	27	1	2.77	
WTR019	72	73	1	1.93	



Gold mineralisation is coincident with quartz vein structures and disseminated sulphides. Drilling to date only covers a strike length of 100m but has established that there is a 100m wide, north-south trending, zone of gold mineralisation within which quartz reefs with high grades occur.

The mineralised zone and the high grade reef remain open to the north and to the south and at depth. The system was not previously found by prospectors.

Re-sampling results confirm the original 4m composite sampling results and suggest there is potential for an open pittable gold resource at Derby North.

Ernest Giles

In Western Australia, drilling of the large Ernest Giles gold project is planned to commence in the coming months. Ernest Giles is located in a remote region of Western Australia and has been subject to little exploration activity in the past despite its prospectivity for gold and other commodities.

Drill contracts have been signed and formal government approval for the drill program is awaited. Airborne geophysical data has been re-processed and drill targets refined. Ground activities, in preparation for drilling, are scheduled to commence in the coming weeks.

Lackman Rock

The Lackman Rock project covers a little explored greenstone sequence in the south of Western Australia, close to existing gold and nickel sulphide operations.

A program of systematic geochemical sampling has commenced and will concentrate on the northern parts of the project. The area to be covered by the survey is some 20km x 5km.

Results of the sampling are expected during the current quarter and will outline the distribution of prospective lithologies under relatively thin sand cover. Results will also aim to provide target areas for in-fill sampling activities and subsequent drill testing.

Firetower

Mapping is continuing at the Anomaly 1 prospect. Results will be integrated with drillhole and geochemical data.



Surface geochemistry is underway at the Star of the West prospect in the north of the project area. Mapping and rock chip sampling is being undertaken at the Lobster prospect.

Corporate

Greatland Gold owns 100% of all the projects in its portfolio. The Company's policy is to develop its projects via systematic exploration work that identifies high value drill targets.

The Company remains true to its policy of concentrating on Australia with its low political risk, strong infrastructure and its established mining culture. Greatland Gold has retained significant levels of capital for exploration activities and has been prudent in the application of funds towards these expenses and corporate overheads.

The board are encouraged by the gold price which has remained above US\$1,100 per ounce despite a calmer capital markets environment. The gold price when expressed in Sterling or Euro has hit new record levels. The board remains open to partnering and cost sharing opportunities with third parties where it can add further expertise and capital for the benefit of Greatland Gold shareholders.

Callum Baxter, Managing Director, commented: "Confirmation of the high tenor of gold mineralisation at Derby North is pleasing. Only 100m of strike has been tested to date, mineralisation remains open and is at shallow depths. Further work is required at Derby North during 2010. At Ernest Giles we are very enthusiastic about the Company's' maiden drill program for the project. It is a very prospective region that has seen only cursory exploration work in the past despite the obvious prospectivity. We look forward to the commencement of drilling at Ernest Giles."

Competent Persons

The information in this announcement that relates to Exploration Results is based on information compiled by Mr Paul Askins and Mr Callum Baxter, directors of Greatland Gold, who are both members of the Australasian Institute of Mining and Metallurgy. Paul Askins and Callum Baxter have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity that they are undertaking to qualify as Competent Persons as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Paul Askins and Callum Baxter consent to the inclusion in the announcement of the matters based on their information in the form and context in which it appears.



All RC drill sample results were obtained from 1m spear sampling to 4kg. All samples were prepared at Genalysis Laboratory Services' Adelaide facility using a single stage pulverisation, and assayed at Genalysis Laboratory Services' Perth laboratory. A 50g Fire Assay with atomic absorption spectrometry analysis technique (AAS) was used for gold while all other elements were determined using a Four Acid digest and optical emission mass spectrometry (OES) analysis technique.

All sample quality control is achieved using a suite of standards, duplicates, repeats and blanks.

Where the Company has made reference to drill intersections in this announcement, it has interpreted these are at, or near, true widths.

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