19 May 2016 - High Grade Gold at Edna Beryl West
5m at 27g/t gold incl. 2m at 51g/t gold
13m at 8.7g/t gold incl. 7m at 15g/t gold

5 July 2016 - High Grade Gold at Edna Beryl West
13.2g/t gold incl. 3m at 15.7g/t gold
3m at 11.2g/t gold
9m at 5.33m g/t gold incl. 3m at 10.4g/t gold

2 August 2016 - Further High Grade “Bonanza” Gold at Edna Beryl West
5m at 35.6g/t gold from 120m
2m at 30.1g/t gold from 128m
3m at 36.6g/t gold from 227m

31 October 2016 - Bonanza and visible gold at Tennant Creek
8m at 157g/t gold, 34.5g/t silver, 0.5% copper

6 December 2016 - Bonanza Gold continues
5m at 83.6g/t gold from 89m
4.3m at 24.6g/t from 249m
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The three T’s – Teamwork, Technology and Tenacity….. delivering multiple discoveries…. www.emmersonresources.com.au
need to be bold……and underpinned with long term funding
Tennant Creek Mineral Field

Vector Residual Magnetic Intensity (VRMI) 250k

- Most historical deposits hosted in magnetite ironstones
- Oxidised, hematite hosted deposits “blind” to magnetics
- Yet oxidised fluids are responsible for many world class Au-Cu deposits!
Emmerson’s Threefold Strategy

- Application of new technology/ideas to make new discoveries in Tennant Creek (Goanna copper, Mauretania gold, Edna Beryl gold)

- Small Mines – monetise existing resources and provide opportunities for “near mine” discoveries (Edna Beryl under development and will be one of Australia’s highest grade gold mines plus pipeline of others)

- Leverage new technology/ideas outside of the Tennant Creek Project
  New gold-copper projects in New South Wales and the NT
Prediction + Detection = Discovery

......Goanna, Mauretania, Edna Beryl

Is there a common theme?

Tennant Creek
Prediction + Detection = Discovery

.....luck is not a strategy!

Precise Prediction and Detection = increasing probability of Discovery!

Aiming to deliver:
- New greenfields targets & discoveries
- Underexplored brownfields targets to grow current resource base

Weighted aggregation process*

*Unbiased, probability based

Advanced Detection Technology

- Multiple (applicable) detection technologies increase the probability of discovery
- Emmerson have pioneered the first use of high powered, airborne electrical geophysics in Tennant Creek (and discovered the Goanna Mineralisation)
- Emmerson and JV Partner, Evolution Mining have pioneered seismic geophysics in Tennant Creek (has highlighted the Edna Beryl mineralisation)
Interpreted Regional Geology

- Solid white line = co-funded 60km regional seismic survey

Source: Johnstone and Donnellan, 2001
Co-Funded Regional Seismic Traverse

...prediction of further discoveries associated with additional thrust faults....

- Gold deposits exhibit a strong relationship to deep seated thrust faults where they are associated with Tennant Creek Supersuite felsic intrusions.
- Main deposits appear ca 1-1.5km above interpreted granite.
The Science......on oxidised fluids

From Emmerson’s Mineragraphy at Edna Beryl
Edna Beryl – extremely high grade gold system within the south dipping EB thrust ...

Bedding vs Cleavage in oriented core looking west. GRED27 272m

EB Hematite ironstone (Emmerson Petrography)
Cross section looking west
L3 Section Line – 416549.5E ± 10m window

EBWRC043 - 2m @ 38.3 g/t Au incl. 1m @ 73.5 g/t Au from 231m
3m hem-chl-qtz rock from 230m (New Ironstone intersection)

EBWRC009 - 18m of chi-hem from 174m, with 4m massive hem from 178m (Ironstone 1)
18m @ 36 ppm Cu, 17 ppm Bi

EBWRC003 - 5m @ 22.12 g/t Au from 103m
incl. 2m @ 50.86 g/t Au from 103m
8m of chi-hem from 100m (Ironstone 2)

EBWRC003 - 18m of chl-hem from 174m, with 4m massive hem from 178m (Ironstone 1)
18m @ 36 ppm Cu, 17 ppm Bi

EBWRC037 - 1.4m @ 96.32 g/t Au from 123.5m
incl. 0.7m @ 188.0 g/t Au from 123.5m
4.9m hem-chl-qtz-jsp from 123.5m (Ironstone 2)

EBWRC043 - 2m @ 10.8 g/t Au incl. 1m @ 15.1 g/t Au from 210m
7m of hem-chl ironstone from 209m, 3m chlorite rock occur at the hanging wall from 206m, and 1m at the footwall from 216m (Ironstone 1)

EBWRC043 - 5m @ 22.12 g/t Au from 103m
incl. 2m @ 50.86 g/t Au from 103m
8m of chi-hem from 100m (Ironstone 2)

EBWRC043 - 2m @ 38.3 g/t Au incl. 1m @ 73.5 g/t Au from 231m
3m hem-chl-qtz rock from 230m (New Ironstone intersection)

EBWRC043 - 5m @ 22.12 g/t Au from 103m
incl. 2m @ 50.86 g/t Au from 103m
8m of chi-hem from 100m (Ironstone 2)

EBWRC043 - 2m @ 38.3 g/t Au incl. 1m @ 73.5 g/t Au from 231m
3m hem-chl-qtz rock from 230m (New Ironstone intersection)
Size comparison with the historical Nobles Nob mine

Nobles Nob was the highest grade gold mine in Tennant Creek (and Australia) (produced +1.1moz)

Nobles Nob supergene gold grade contours at the same scale as Edna Beryl

Edna Beryl has supergene and primary gold potential
A sneak preview...ultra high resolution gravity

- Prediction of hematite ironstones in nose of a fold
- Cut by D3 faults (mineralising event)
- Mineralisation at HSL interface
- Detection of the extent of hematite ironstone
- Detection of potential extensions and other targets
First application of new detection (high power airborne EM) = discovery of Goanna & Monitor Cu-Au.
Strategy 2 - Small Mines
Risk free cash from high grade resources

Proposed Central Mill

- Modular
- Toll 10-15tph
Crushing, milling, gravity
- Operate on a campaign basis

Proposed Small Milling Facility

Proposed Small Mine Development

Historic high-grade mines

Chariot-Malbec
Susan
Eldorado
"Deeps"
White Devil
Chariot-Malbec
Nobles Nob
Black Snake
Golden Kangaroo
Golden 40
EDNA BERYL
(IN DEVELOPMENT)
NT Gas Pipeline
Proposed NEGI Gas Pipeline

NORTH
Edna Beryl Mine, the first of the small mines
Strategy 3 Rover Project - Farm-in and JV with Andromeda (formally Adelaide Resources)
Strategy 3 – the biggest value driver is discovery
Prediction + Detection = New Discoveries in NSW and the NT

New South Wales Projects
Summary and Conclusions

- Exploration is a business.....so we need to deliver discoveries to ensure ongoing funding. Evolution Mining (JV Partner) have spent ~$11.7m of the $15m to earn 65% of the Tennant Project...and seeing some good results!

- 2017 Exploration Program is underway, with an of ultra high resolution gravity survey over Edna Beryl. Plus a trial of passive seismic – ahead of further drilling

- Strategy for ERM’s new Rover project based on a similar systematic approach.....Prediction (improving the structural framework) + Detection

- Edna Beryl is the first of the small mines.....aim to monetise existing high grade resources, provide metallurgical samples and near mine exploration opportunities (small mines can grow into BIG MINES!)

- New technology and ideas continue to drive exploration.....both in Tennant Creek, Rover and NSW...competition for $$
The Emmerson Team