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# Zambian Copperbelt Style Geological Model


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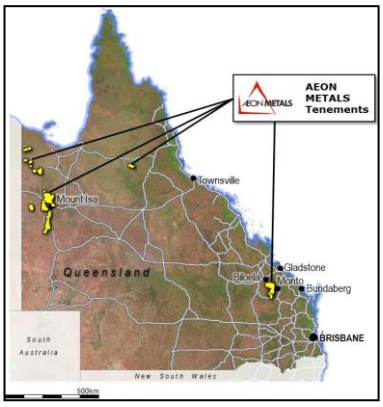
All mineral resources projects located in Queensland:




Aeon Metals Limited ("Aeon" or "the Company") advises that its geological team has developed a revised Walford Creek geological model which has successfully guided drill hole targeting in more recent holes at Walford Creek and enabled better definition of the high-grade zones along the Fish River Fault ("FRF").

The mineralisation at Walford Creek exhibits strong characteristics of Zambian Copperbelt style sediment hosted copper-cobalt mineralisation. Consistent with this, the lower pyrite unit 3 ("Py3") at Walford Creek contains the best copper grades. The Py3 is the first favourable site for mineral bearing hydrothermal fluids, driven from deep within the sedimentary basin to drop their metals (See Figure 1). Recent drill holes confirm the validity of the Zambian Copperbelt style model and provide real encouragement for further holes to identify more and continuous high grade copper and cobalt in the Py3 adjacent to the FRF.

**Using this model to test the high-grade zone in the Py3 unit, the most significant result was;**

- **WFDD238**: **27m @ 3.13% Cu, 0.25% Co,** 1.34% Pb, 0.18% Zn and 38.36gt Ag from 126m;

This included bonanza high grade copper; 9m @ 6.85% Cu, 0.18% Co, 2.79% Pb, 0.27% Zn and 50gt Ag from 134m.

**With application of the Zambian Copperbelt style model, Aeon is now confident of expanding Walford Creek into a world class Cu Co deposit through targeting the Py3 (from ~120m) along the extensive 25km strike of the Walford Creek system.**

To the extent that the foregoing is an Exploration Target in terms of the JORC Code 2012, it is cautioned (as required by the JORC Code) that the potential quantity and grade is conceptual in nature, that there has been insufficient exploration to estimate a Mineral Resource (other than that already announced by the Company) and that it is uncertain if further exploration will result in the estimation of an increased Mineral Resource.

An additional geological metric from the Zambian Copperbelt style model is the zonation of metals with a high grade core of copper and cobalt and flanking lead – zinc – silver mineralisation. This appreciation of the zonation of these metals will assist in targeting zones where previous holes have flanked or skimmed the high-grade portions of the system. The Figure 1 schematic shows the relative ease of missing the high-grade zones and receiving moderate or low grades.

The locations for the holes completed during the 2017 drilling program are shown in Figures 2 and 3. Some of the RC holes are drilled as pre-collars for deeper holes which will be completed using the diamond coring technique.

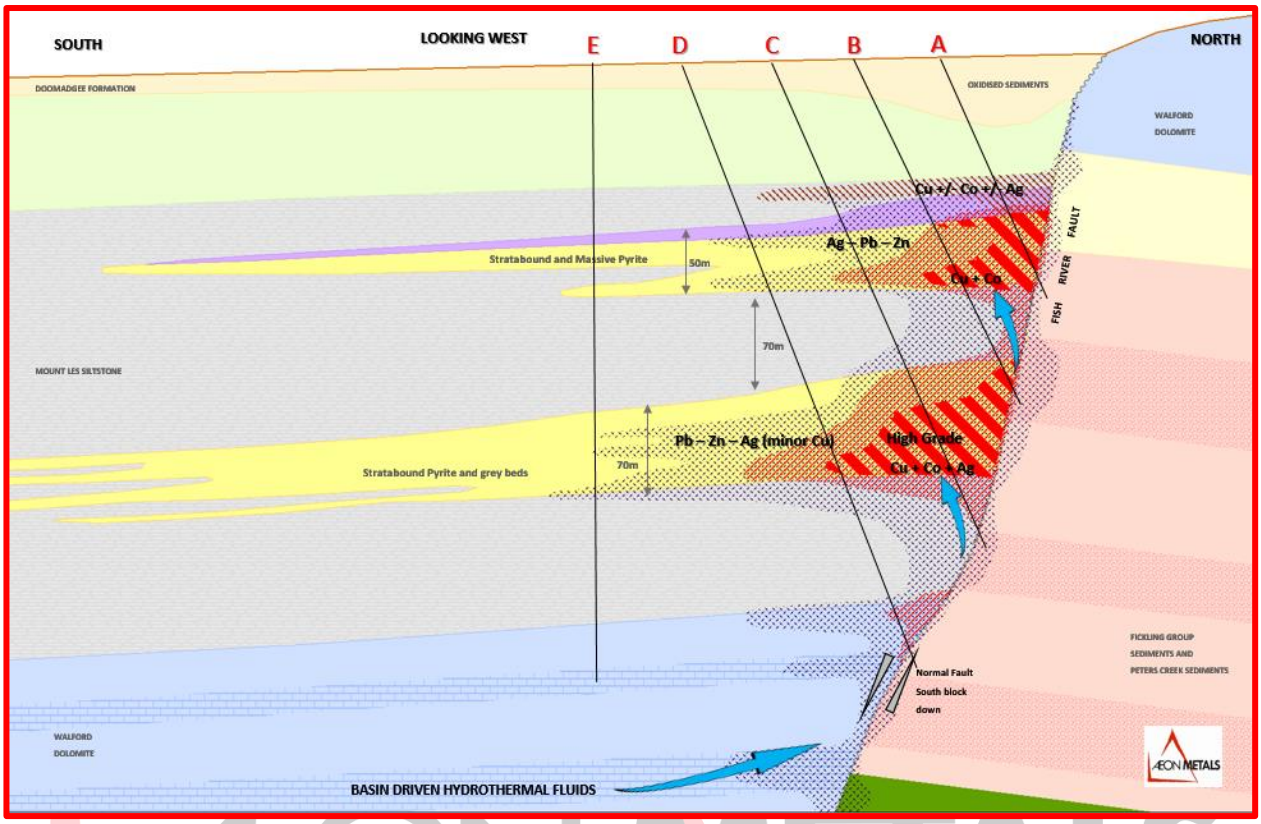



***Figure 1: Schematic cross section of Walford Creek showing zonation of metals and drill effectiveness***

The targeting of the high-grade mineralisation is schematically represented in Figure 1 which shows four possible hole positions on the schematic geological model section. They demonstrate the relative effectiveness of each hole to test the high-grade zones associated with the Py1 and Py3.

A. Shallow holes from 50m to 80m intercept both possible supergene mineralisation together with strong copper and cobalt mineralisation associated with the Py1 in close proximity to the FRF.

B. Drilled behind the shallow holes. These holes from 70m to 110m can still hit some good grade of both copper, cobalt and flanking lead and zinc in Py1 but can intercept the FRF above the high grade in Py3 (in the green siltstone) thus missing the best copper and cobalt zone.

C. These holes which can range from around 90m to 160m depth depending on depth to the Py1 and Py3, have been the holes which have recently targeted for potential bonanza style copper grades in the Py3 close to the FRF. Holes WFDD236 and WFDD238 are recent examples of the success of this deposit model targeting.

D. These holes have been typically from 150m to greater than 300m and can end up having no mineralisation associated with the Py1 and can still be too far from the FRF to successfully intercept the 'sweet spot' in the Py3.

E. Holes drilled too far from the FRF such as many of the WMC vertical holes. These were drilled in part to test the SEDEX Ag-Pb-Zn model. Some angled holes were simply drilled too far south of the fault.

## Discussion

It has been understood by Aeon for some time that some of the best copper at Walford Creek had been intersected broadly within the lower Py3 unit based on a scattering of old holes along the greater than 4km of strike currently identified. Given the extensive strike of the Walford Creek pyrite system which is open to both the east and the west, many early holes did not hit the best parts of the mineral system. In order to accurately test the 'sweet spots' as schematically shown in **Figure 1**, there is a need to first identify the actual FRF and then also the top of the chert horizon and Py1 to work out the geometry of the system and thus enable the design of deeper holes.

The geological model now being applied is based on the large database at Walford and now also draws on the voluminous research into the Zambian Copperbelt style system. This revised Walford model has very clearly demonstrated the potential of the Py3 to deliver more of these high-grade results as exemplified by the recently targeted holes **WFDD236** and **WFDD238.**

The Zambian Copperbelt style model indicated that the Py3 would likely see the best copper grades as it represents the first reducing facies for basin derived hydrothermal metal bearing fluids passing along permeable layers well below the Mount Les siltstone, host of the Py1 and Py3 pyritic sediments.

Zonation of metals, as shown in the Figure 1 schematic model, tend towards copper and cobalt rich zones close to the FRF and the lower portions of the pyrite units with halo mineralisation comprising lead and zinc mineralisation. High silver and also cobalt extend as an envelope beyond the high copper lead and zinc and can provide valuable clues to vectoring in on the valuable portions of the Walford Creek Deposit.

## Opportunity

The long section in Figure 2 shows very clearly that for much of the four kilometre strike currently drilled at Walford Creek, relatively few holes have actually intercepted the likely 'sweet spots' of, particularly, the lower Py3 lens.

To the west of Vardy, only a handful of holes have successfully tested the Py3 unit close in to the FRF. More holes have drilled the Py3 but further out from the FRF. These are typified by hole WFPD152 which went below the 'sweet spot' in Py3 and intercepted modest halo or fringe style mineralisation including some broad low grade zinc.

Application of the extensive drilling data base and the Zambian Copperbelt style model will provide the opportunity to more accurately target high grade mineralisation, particularly in the lower Py3 lens.

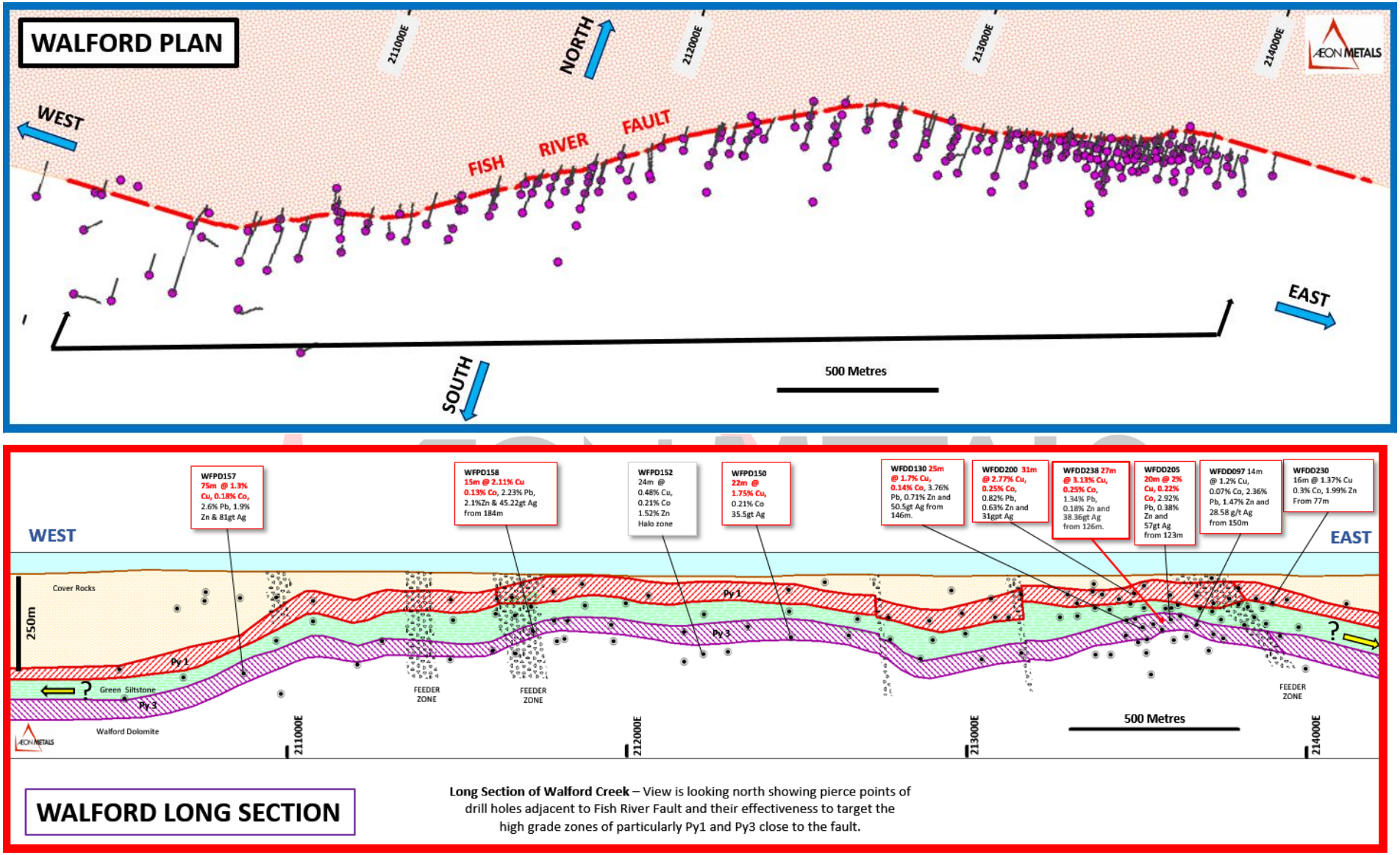



***Figure 2: Walford Plan and Long Section***

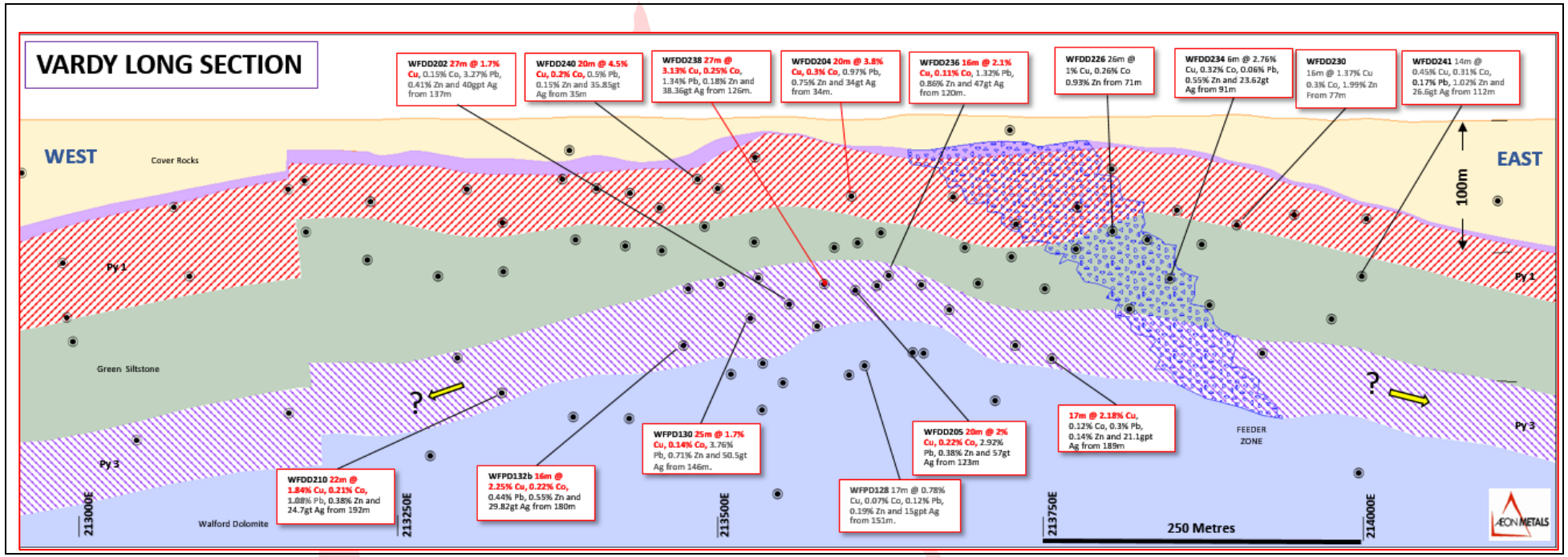



***Figure 3: Vardy Long Section showing hole pierce points into Fish River Fault and simplified geology***

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## APPENDIX 1 - COMPETENT PERSONS STATEMENT

The information in this report that relates to Aeon Metals Limited's exploration results is based on information compiled by Mr Dan Johnson who is a Member of the Australian Institute of Geoscientists and who has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the "JORC Code"). Mr Dan Johnson is a full-time employee of Aeon Metals Limited and consents to the inclusion in the presentation of the exploration results including any Exploration Targets in the form and context in which they appear.

## APPENDIX 2 – SIGNIFICANT DRILL RESULTS TABLE

| Hole No. | Easting | Northing | AZI | Dips | Intersect | | From | To | Cu | Co | Pb | Zn | Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | degrees | degrees | m | | m | m | % | % | % | % | g/t |
| WFDD224 | 213680 | 8032006 | 355.00 | -65 | 45.00 | | 31.00 | 76.00 | 0.40 | 0.06 | 0.74 | 0.95 | 28.74 |
| | | | | | Incl | 11.00 | 62.00 | 73.00 | 0.42 | 0.14 | 0.79 | 3.08 | 35.00 |
| | | | | | | | | | | | | | |
| WFDD225 | 213730 | 8032013 | 355.00 | -72.5 | 67.00 | | 40.00 | 107.00 | 0.40 | 0.20 | 0.32 | 1.92 | 20.30 |
| | | | | | Incl | 16.00 | 58.00 | 74.00 | 0.86 | 0.50 | 0.53 | 0.56 | 40.60 |
| | | | | | Incl | 36.00 | 71.00 | 107.00 | 0.36 | 0.14 | 0.30 | 3.50 | 14.82 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WFDD226 | 213805 | 8032018 | 355.00 | -69 | 12.00 | | 54.00 | 66.00 | 0.01 | 0.06 | 1.19 | 2.21 | 25.80 |
| | | | | | 26.00 | | 71.00 | 97.00 | 1.02 | 0.26 | 0.15 | 0.93 | 37.54 |
| | | | | | incl | 14.00 | 71.00 | 85.00 | 1.42 | 0.31 | 0.25 | 0.88 | 37.00 |
| WFDD227 | 213855 | 8032023 | 355.00 | -62 | 5.00 | | 73.00 | 78.00 | 0.50 | 0.15 | 0.15 | 0.97 | 22.74 |
| | | | | | NB | | 78.00 | 84.00 | Cross fault and no core return | | | | |
| | | | | | and | 4.00 | 84.00 | 88.00 | 0.30 | 0.11 | 0.41 | 3.77 | 14.80 |
| WFDD228 | 213727 | 8032044 | 355.00 | -60 | 3.00 | | 44.00 | 47.00 | 0.43 | 0.06 | 0.15 | 0.05 | 23.77 |
| | | | | | and | 5.00 | 63.00 | 68.00 | 0.12 | 0.02 | 0.12 | 2.29 | 28.85 |
| WFDD229 | 213806 | 8032048 | 355.00 | -70 | 26.00 | | 36.00 | 62.00 | 0.44 | 0.13 | 0.22 | 1.46 | 30.24 |
| | | | | | Incl | 5.00 | 52.00 | 57.00 | 1.12 | 0.24 | 0.34 | 5.27 | 47.81 |
| | | | | | and | 2.00 | 66.00 | 68.00 | 1.73 | | | | |
| WFDD230 | 213903 | 8032025 | 355.00 | -70 | 10.00 | | 58.00 | 68.00 | 0.08 | 0.03 | 0.22 | 2.48 | 17.70 |
| | | | | | and | 2.00 | 73.00 | 75.00 | 0.01 | 0.07 | 0.27 | 2.70 | 15.00 |
| | | | | | and | 16.00 | 77.00 | 93.00 | 1.37 | 0.30 | 0.53 | 1.99 | 20.53 |
| | | | | | incl | 7.00 | 81.00 | 88.00 | 2.72 | 0.37 | 0.80 | 1.72 | 21.70 |
| WFDD231 | 213949 | 8032026 | 355.00 | -70 | 28.00 | | 62.00 | 90.00 | 0.35 | 0.12 | 0.79 | 0.92 | 21.52 |
| | | | | | incl | 14.00 | 67.00 | 81.00 | 0.54 | 0.10 | 1.34 | 0.92 | 20.75 |
| | | | | | and | 9.00 | 90.00 | 99.00 | 0.05 | 0.13 | 0.50 | 1.50 | 9.45 |
| WFDD232 | 214000 | 8032033 | 355.00 | -70 | 12.00 | | 85.00 | 97.00 | 0.40 | 0.05 | 0.14 | 0.34 | 19.89 |
| | | | | | and | 7.00 | 100.00 | 107.00 | 0.16 | 0.04 | 0.04 | 1.00 | 4.58 |
| WFDD233 | 213753 | 8031957 | 355.00 | -60.00 | 10.00 | | 83.00 | 93.00 | 0.03 | 0.07 | 1.30 | 0.94 | 37.24 |
| | | | | | NB | | void of 5m from 93m with no sample return | | | | | | |
| | | | | | and | 8.00 | 98.00 | 106.00 | 0.39 | 0.09 | 0.04 | 0.39 | 5.10 |
| WFDD234 | 213855 | 8031977 | 355.00 | -60.00 | 6.00 | | 91.00 | 97.00 | 2.76 | 0.32 | 0.06 | 0.35 | 23.60 |
| | | | | | and | 4.00 | 97.00 | 101.00 | 0.12 | 0.18 | 10.12 | 2.12 | 41.05 |
| | | | | | and | 4.00 | 122.00 | 126.00 | 0.69 | 0.16 | 0.20 | 1.14 | 14.70 |
| | | | | | NB 4m void from 106m then 2m void from 116m and another 2m from 120m | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WFDD235 | 213703 | 8031951 | 355.00 | -60.00 | 8.00 | | 70.00 | 78.00 | 0.14 | 0.09 | 0.15 | 3.14 | 10.36 |
| | | | | | and | 11.00 | 78.00 | 89.00 | 0.66 | 0.27 | 0.06 | 0.29 | 25.40 |
| | | | | | and | 7.00 | 153.00 | 160.00 | 0.69 | 0.05 | 0.05 | 0.04 | 7.80 |
| WFDD236 | 213631 | 8031942 | 355.00 | -63.50 | 5.00 | | 67.00 | 72.00 | 0.60 | 0.36 | 0.14 | 0.38 | 24.22 |
| | | | | | NB 21m of no sample / void from 72m to 95m | | | | | | | | |
| | | | | | and | 16.00 | 120.00 | 136.00 | 2.10 | 0.11 | 1.31 | 0.86 | 46.65 |
| | | | | | incl | 5.00 | 121.00 | 126.00 | 5.12 | 0.14 | 3.63 | 0.86 | 87.33 |
| | | | | | NB Mo is exceptionally high over this 16m interval. 0.12% Mo. | | | | | | | | |
| WFDD237 | 213605 | 8031946 | 355.00 | -60.00 | 20.00 | | 30.00 | 50.00 | 0.40 | 0.07 | 2.53 | 0.17 | 19.00 |
| | | | | | and | 15.00 | 55.00 | 70.00 | 0.40 | 0.27 | 0.42 | 0.84 | 17.33 |
| | | | | | and | 18.00 | 70.00 | 88.00 | 0.01 | 0.24 | 0.01 | 2.20 | 1.00 |
| WFDD238 | 213579 | 8031904 | 355.00 | -60.00 | 4.00 | | 31.00 | 35.00 | 0.50 | 0.03 | 0.05 | 0.03 | 9.79 |
| | | | | | and | 16.00 | 69.00 | 85.00 | 0.03 | 0.09 | 0.25 | 0.87 | 10.20 |
| | | | | | and | 27.00 | 126.00 | 153.00 | 3.13 | 0.25 | 1.34 | 0.18 | 38.36 |
| | | | | | incl | 9.00 | 135.00 | 143.00 | 6.85 | 0.18 | 2.79 | 0.27 | 50.38 |
| WFDD239 | 213531 | 8031898 | 355.00 | -60.00 | 6m | | 23.00 | 29.00 | 0.02 | 0.00 | 2.38 | 0.01 | 33.46 |
| | | | | | and | 4.00 | 30.00 | 34.00 | 2.79 | 0.17 | 0.07 | 0.02 | 22.26 |
| | | | | | and | 14.00 | 62.00 | 76.00 | 0.00 | 0.10 | 0.24 | 2.94 | 17.48 |
| | | | | | and | 12.00 | 81.00 | 93.00 | 0.32 | 0.25 | 0.28 | 0.75 | 20.67 |
| WFDD240 | 213481 | 8031949 | 355.00 | -60.00 | 20.00 | | 35.00 | 55.00 | 4.45 | 0.20 | 0.50 | 0.15 | 35.85 |
| | | | | | NB - Core loss from 43 - 45m and 50 - 51m | | | | | | | | |
| WFDD241 | 214001 | 8032003 | 355.00 | -60.00 | 14.00 | | 112.00 | 126.00 | 0.45 | 0.31 | 0.17 | 1.02 | 26.60 |
| | | | | | NB Loss core in void from 126 to 140m | | | | | | | | |
| | | | | | then | 9.00 | 140.00 | 149.00 | 0.05 | 0.09 | 0.30 | 0.91 | 13.03 |

## APPENDIX 3 – DRILL PROGRESS TABLE

| hole_id | gda94_East | gda94_North | gda94_RL | azimuth(grid) | dip | max_depth |
|---|---|---|---|---|---|---|
| WFDD224 | 213680 | 8032006 | 107.0999985 | 0 | -65 | 78.30000305 |
| WFDD225 | 213730 | 8032012 | 106.5 | 0 | -72.5 | 109.8000031 |
| WFDD226 | 213805 | 8032018 | 106.8000031 | 1 | -70 | 110.9499969 |
| WFDD227 | 213854 | 8032024 | 107.0999985 | 0 | -65 | 105.5 |
| WFDD228 | 213728 | 8032041 | 107.0999985 | 0 | -65 | 81.5 |
| WFDD229 | 213806 | 8032042 | 107.0999985 | 0 | -70 | 84.69999695 |
| WFDD230 | 213905 | 8032025 | 107.4000015 | 0 | -70 | 102.5999985 |
| WFDD231 | 213948 | 8032027 | 107.4000015 | 0 | -70 | 102.5 |
| WFDD232 | 214000 | 8032036 | 107.0999985 | 0 | -70 | 115.1999969 |
| WFDD233 | 213753 | 8031959 | 105.9000015 | 0 | -60 | 150.3000031 |
| WFDD234 | 213855 | 8031975 | 106.1999969 | 0 | -60 | 151.6999969 |
| WFDD235 | 213704 | 8031948 | 105.5999985 | 0 | -60 | 165 |
| WFDD236 | 213630 | 8031942 | 105.5999985 | 0 | -63.5 | 141.1000061 |
| WFDD237 | 213605 | 8031946 | 105.9000015 | 0 | -60 | 117.1999969 |
| WFDD238 | 213579 | 8031904 | 105.3000031 | 0 | -60 | 161.1999969 |
| WFDD239 | 213531 | 8031898 | 105.5999985 | 0 | -60 | 156.3999939 |
| WFDD240 | 213481 | 8031949 | 106.8000031 | 0 | -60 | 67.40000153 |
| WFDD241 | 214001 | 8032003 | 106.5 | 0 | -67 | 158 |
| WFRC242 | 214105 | 8032043 | 106.1999969 | 0 | -60 | 100 |
| WFRC243 | 214190 | 8032053 | 105.3000031 | 0 | -60 | 78 |
| WFRC244 | 214389 | 8032519 | 101.5999985 | 304 | -60 | 80 |
| WFRC245 | 214499 | 8031951 | 103.1999969 | 355 | 75 | 180 |
| WFPD246 | 214119 | 8031987 | 105.3000031 | 7 | -72 | 96 |
| WFRC248 | 211615 | 8031250 | 103.8000031 | 0 | -60 | 60 |
| WFRC247 | 213830 | 8031936 | 105.5999985 | 10 | -66 | 52 |
| WFRC249 | 211718 | 8031281 | 101.9000015 | 2 | -60 | 80 |
| WFRC250 | 211370 | 8031076 | 101.9000015 | 0 | -63 | 132 |
| WFRC251 | 211881 | 8031311 | 101.3000031 | 0 | -73 | 214 |
| WFRC252 | 211483 | 8031124 | 101.5999985 | 0 | -62 | 120 |
| WFRC253 | 211489 | 8031171 | 103.8000031 | 2 | -65 | 57 |
| WFRC254 | 211279 | 8031028 | 101.5999985 | 0 | -72 | 120 |
| WFRC255 | 211433 | 8031115 | 102.1999969 | 0 | -61 | 99 |
| WFRC256 | 212228 | 8031605 | 100.4000015 | 0 | -60 | 51 |
| WFRC257 | 212328 | 8031650 | 98 | 3 | -60 | 60 |
| WFPD258 | 213806.2 | 8031990.2 | 106 | 9 | -78 | 169.6000061 |
| WFRC259 | 213453 | 8031945 | 106 | 0 | -60 | 50 |
| WFRC260 | 213904 | 8031992 | 105 | 5 | 87 | 76 |
| WFPD261 | 212347 | 8031585 | 98 | 0 | -66 | 186 |