610,000 mE 620,000 mE 630,000 mE 640,000 mE 650,000 mE

8,110,000 mN 8,100,000 mN 8,090,000 mN 8,080,000 mN 8,070,000 mN

Copper Copper

Kiana Station Homestead

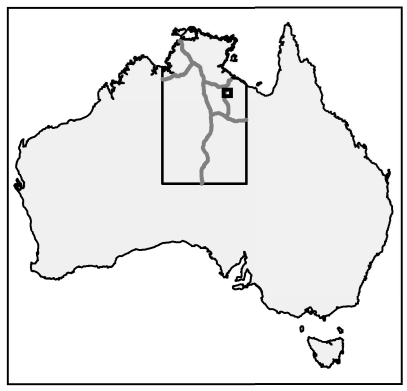
Kiana Station Access Road

LEGEND

EL25676
boundary as granted in 2007

copper mineral occurrence

BACKGROUND:
Walhallow 1:250,000
topographical map-sheet



EL25676 Local Geology - Walhallow 1:250,000

Qa	Alluvium: sand, minor gravel, silt and clay
Czs	Unconsolidated colluvial & aeolian sand; minor silt, red earth
Czl	Lateritic regolith over Cretaceous
Kl	**Cretaceous Sediments** Clayey, micaceous & ferruginous sst, sandy siltstone; shale, claystone
-Cmt	**Top Springs Limestone** Pale grey limestone, karstic-weathering
-Pub	**Bukalara Sandstone** Thickly bedded, fine-vcs qtz, feldspathic sst

McARTHUR GROUP

-Pmx	**Reward Dolostone** Ridge-forming dololutite, stromatolitic dololutite
-Pme	**Emmerugga Dolostone** massive dark-grey crystalline dololutite
-Pmea	**Mara Dolostone Member** stromatolitic dololutite & dolomitic siltstone
-Pmf	**Myrtle Shale** thinly bedded to laminated siltstone, shale
-Pmi	**Leila Sandstone** dark grey dolomitic sst fine-cs, poorly-sorted
-Pmt	**Tooganinie Formation** stromatolitic dololutite, dolomitic shale & siltstone
-Pmd	**Tatoola Sandstone** mostly med vuggy sandstone, dolomitic and lithic
-Pma	**Amelia Dolostone** stromatolitic & silty dololutite with interbeds of dolarenite + shale
-Pml	**Mallapunyah Formation** red-purple dolomitic shale & siltstone with dolomitic sst interbeds
-Pms	**Masterton Sandstone** fine-med quartzarenite; cross-bedded & extensively rippled

TAWALLAH GROUP

-Pt	**Undifferentiated Tawallah Group** Undivided Tawallah Group
-Ptg	**Gold Creek Volcanics** amygdaloidal vesicular basaltic lavas
-Pto	**Wollogorang Formation** Thinly-bedded dololutite with rare stromatolites
-Pte	**Settlement Creek Volcanics** Fine-med basaltic doleritic lavas
-Ptl	**Sly Creek Sandstone** quartz arenite with quartz pebble beds common
-Ptd	**McDermott Formation** fine-med quartz, glauconitic & dolomitic sandstone
-Pts	**Seigal Volcanics** amygdaloidal basalt

N

0 2.0 4.0 6.0 8.0 10.0km

SCALE - 1 : 200,000

UNIVERSAL TRAVERSE MERCATOR PROJECTION
Australian Map Grid Zone 53 (GDA94)

MERLIN DIAMONDS LIMITED
A.B.N. 86 009 153 119

COMPILED	GMI Rockett
DRAWN	GMI Rockett
DATE	May 2015
SCALE	1 : 200,000

TITLE

LANCELOT PROJECT
EL25676

Local Interpreted Geology

Map 3 : A3