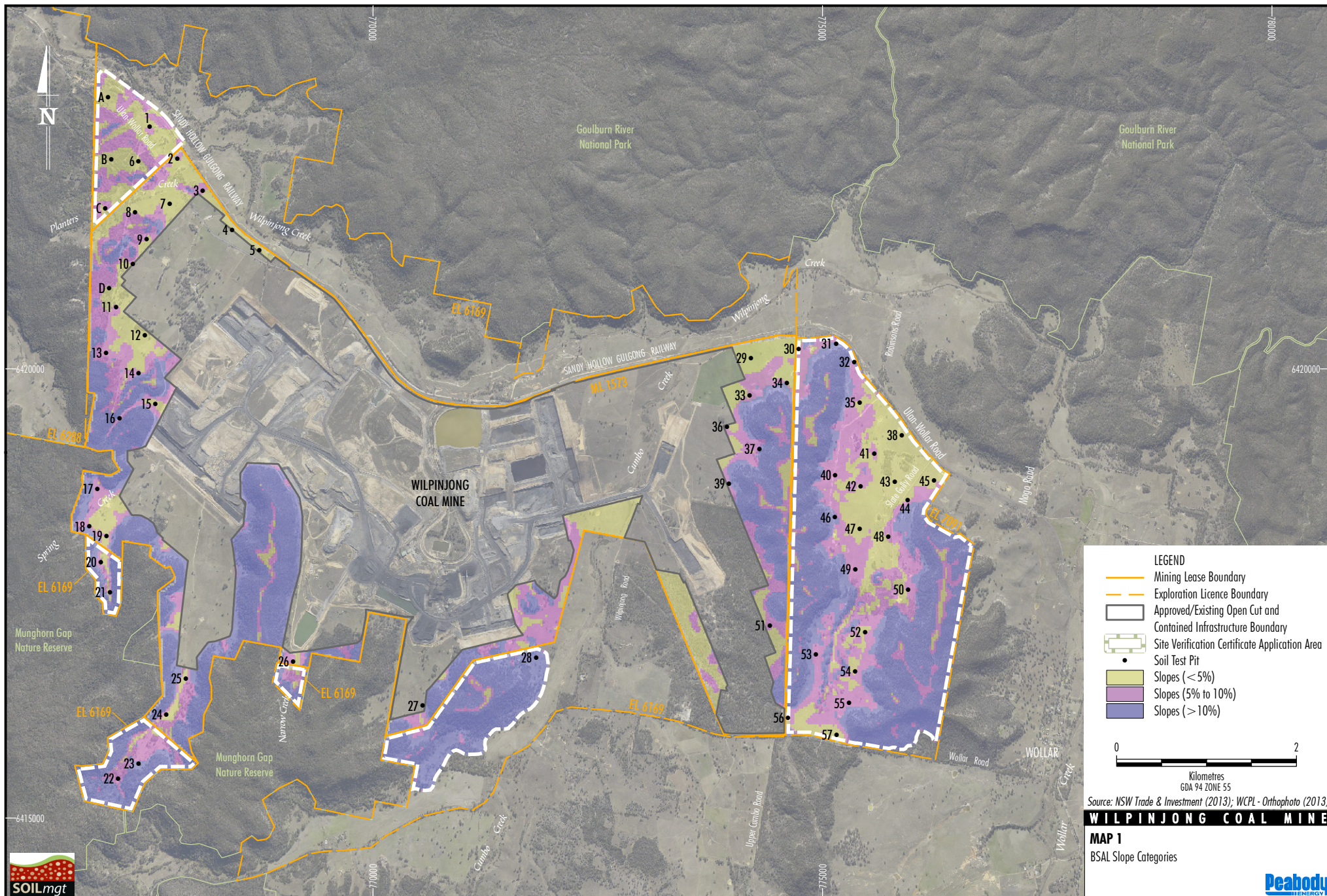
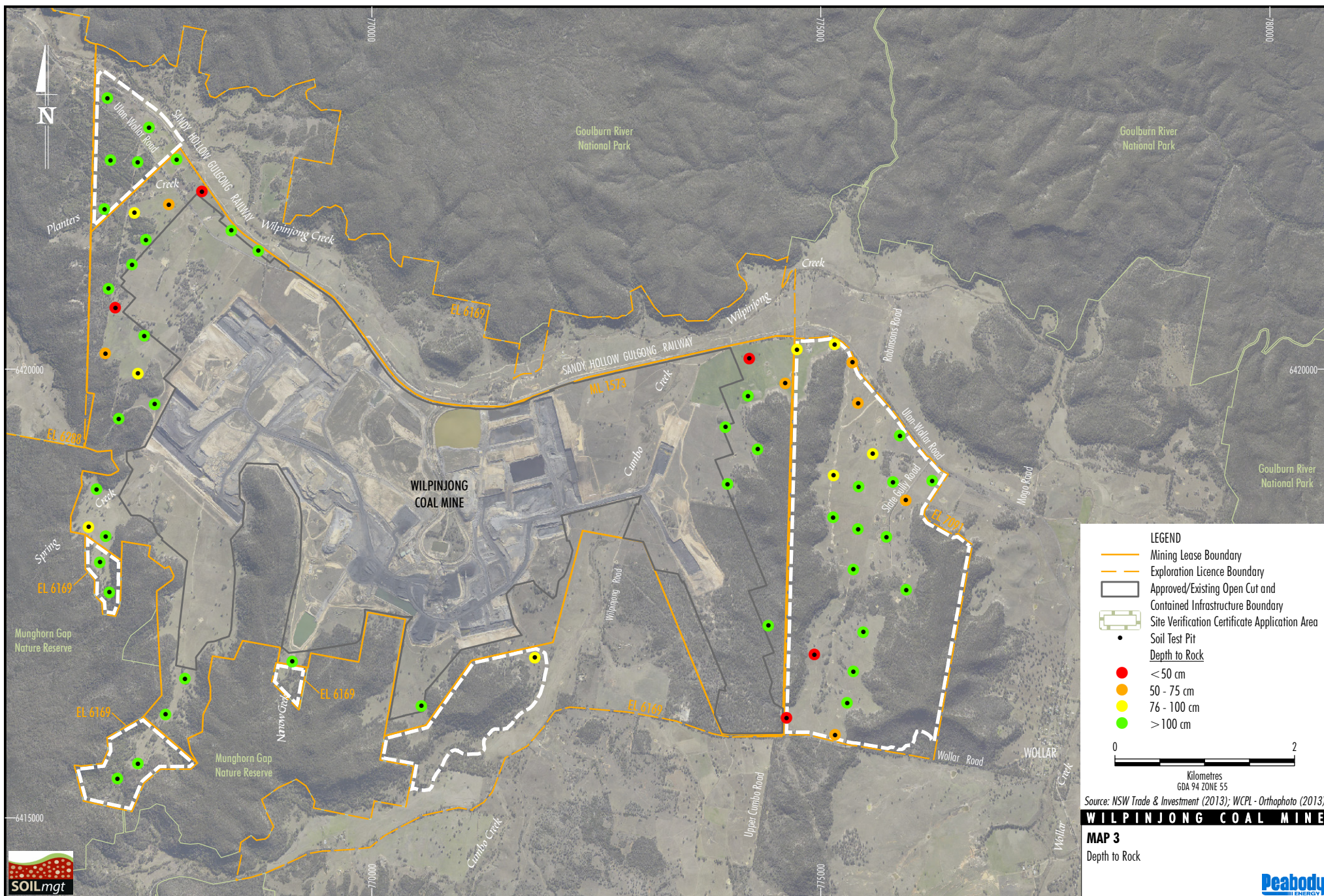
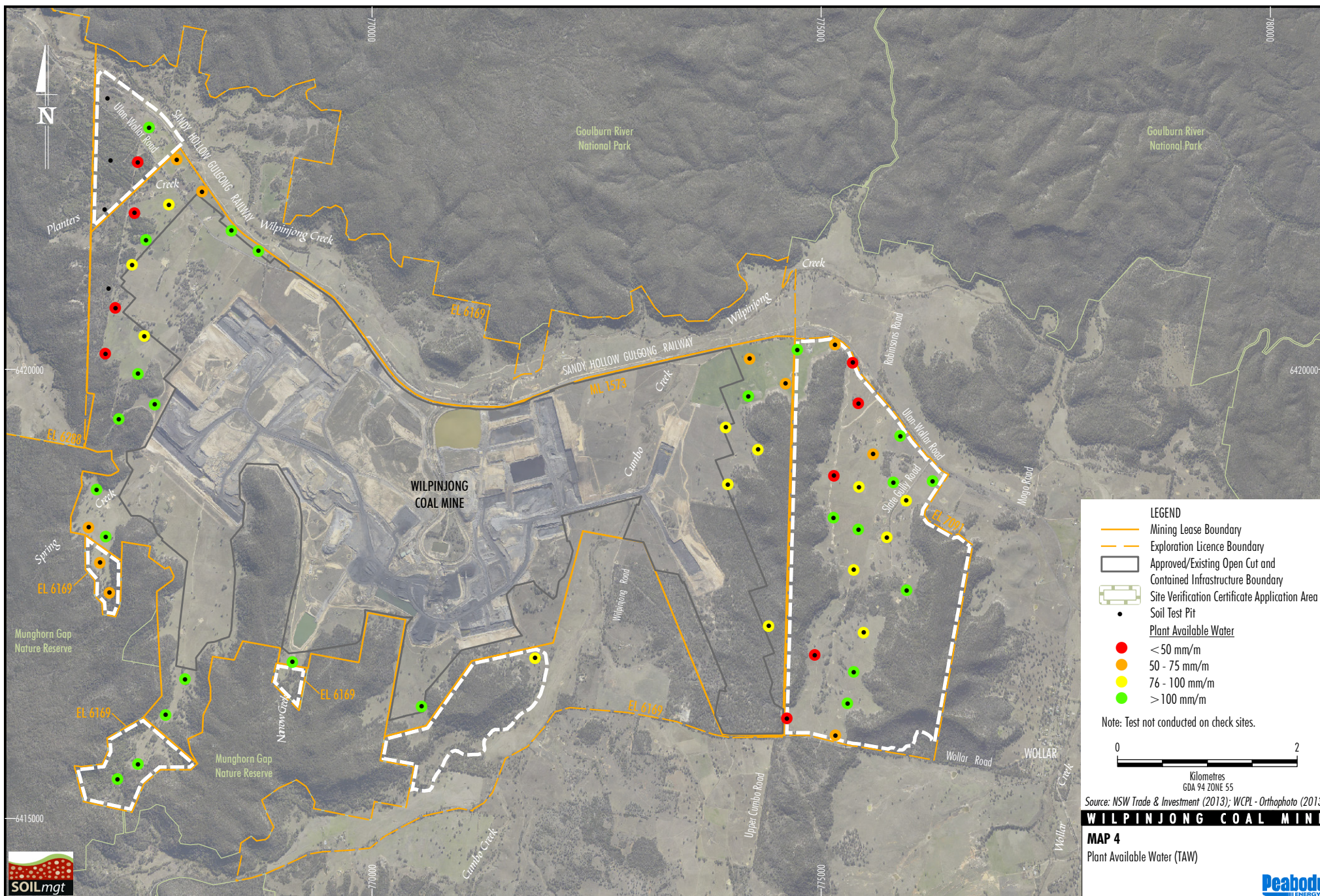


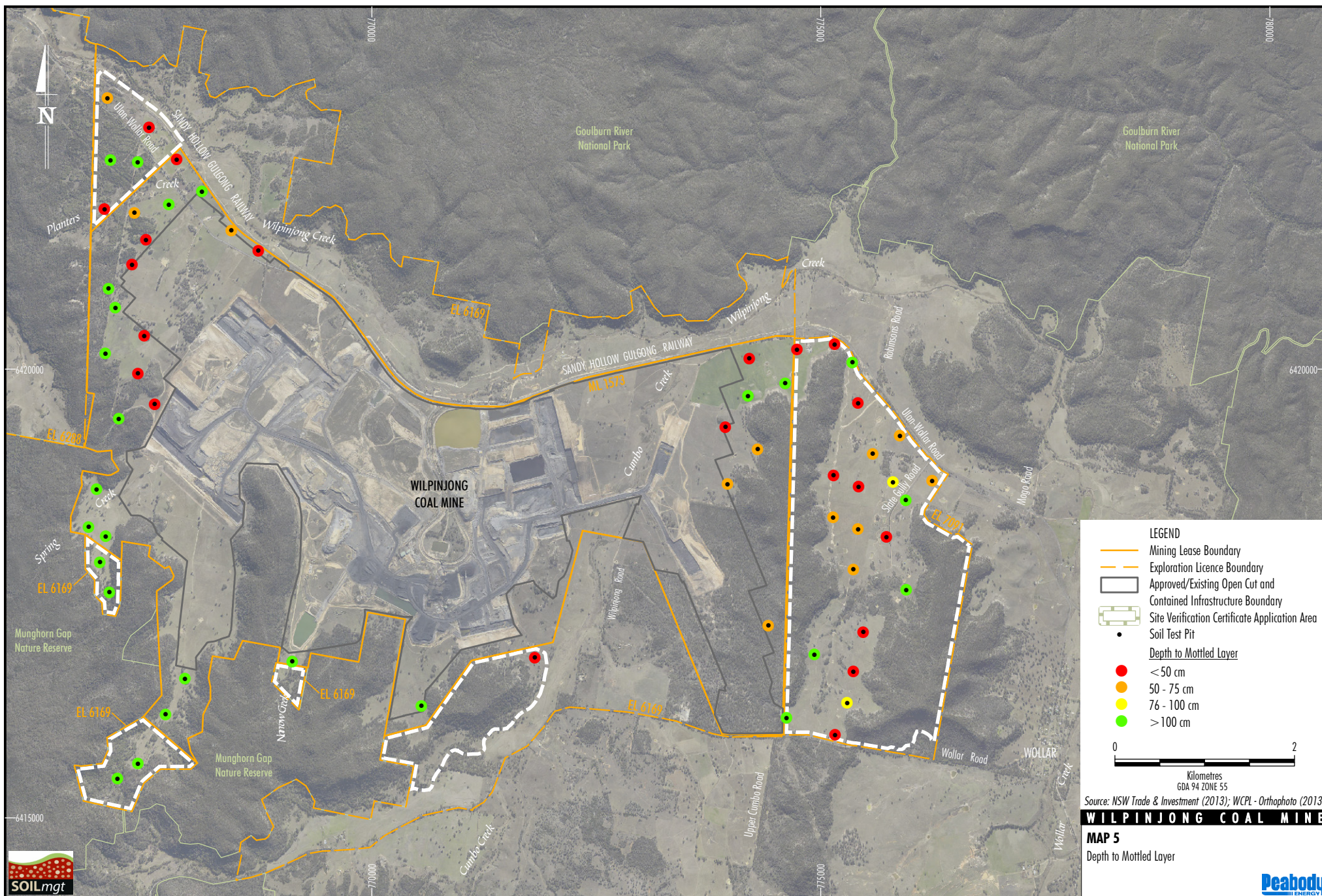
SOIL MAPS 1 TO 13

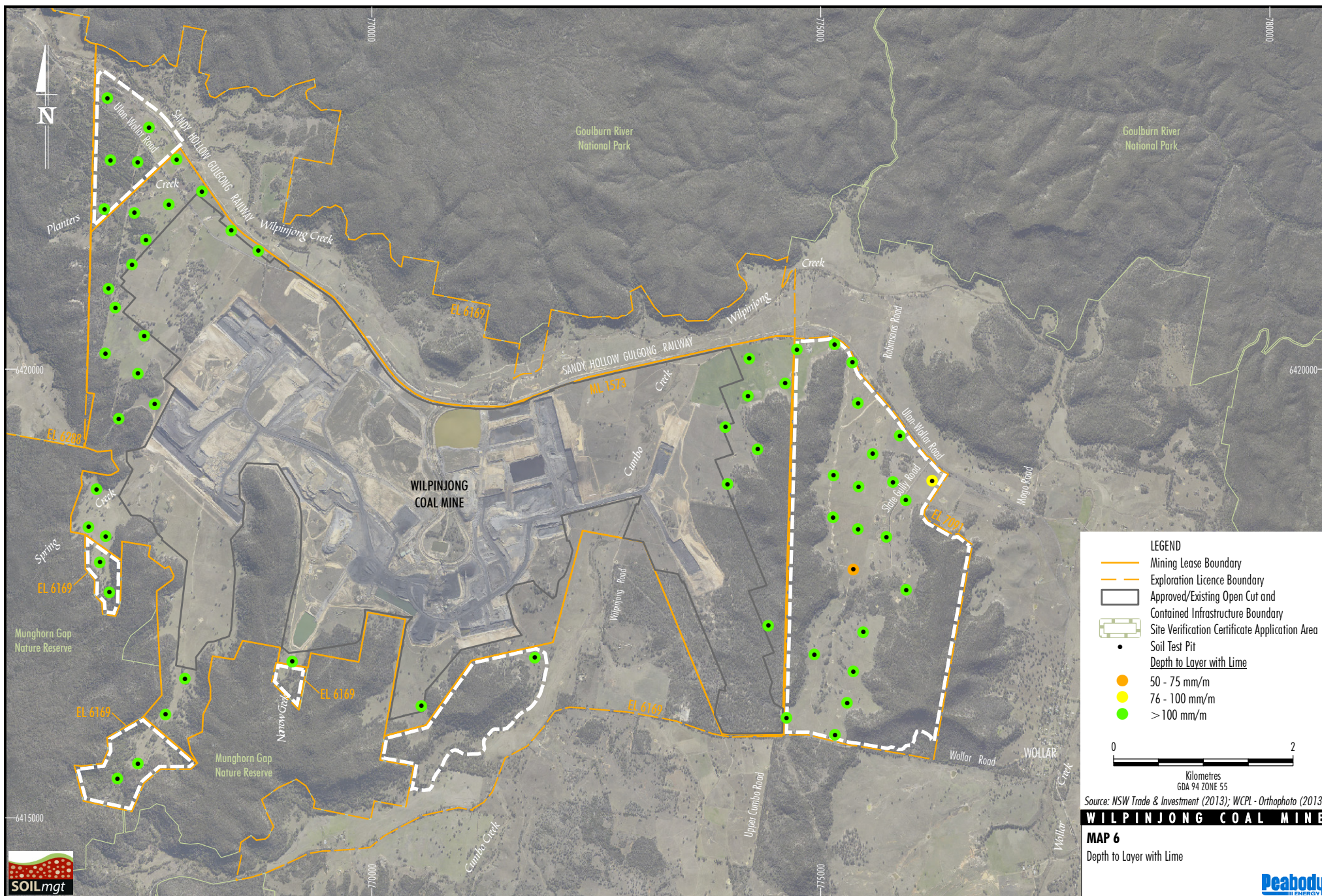


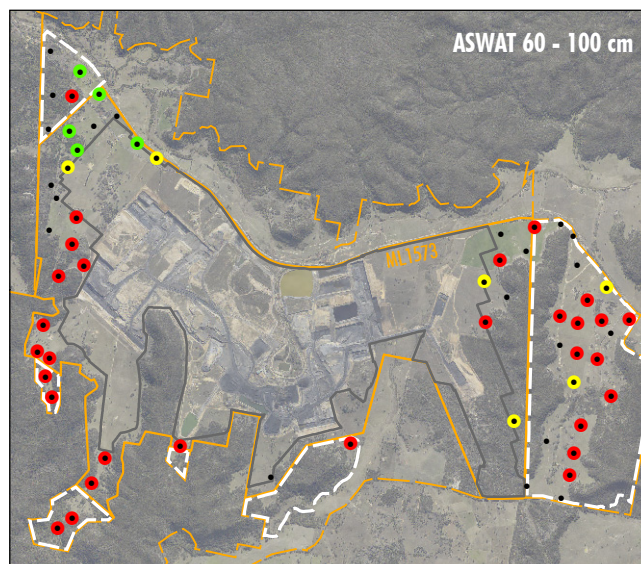
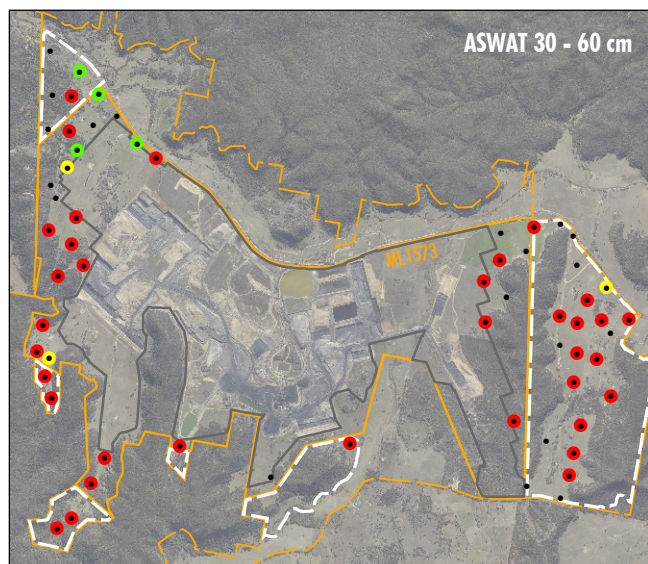
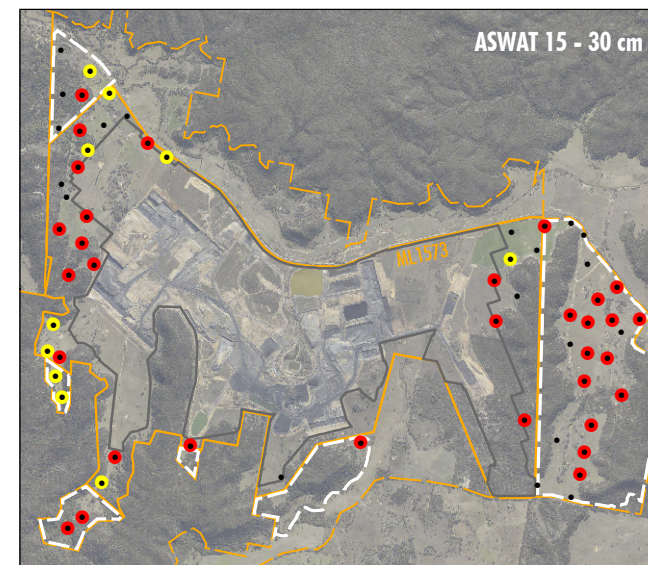
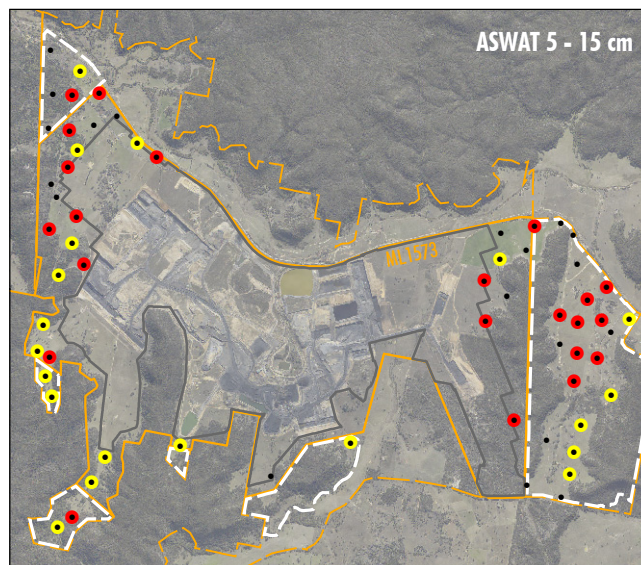
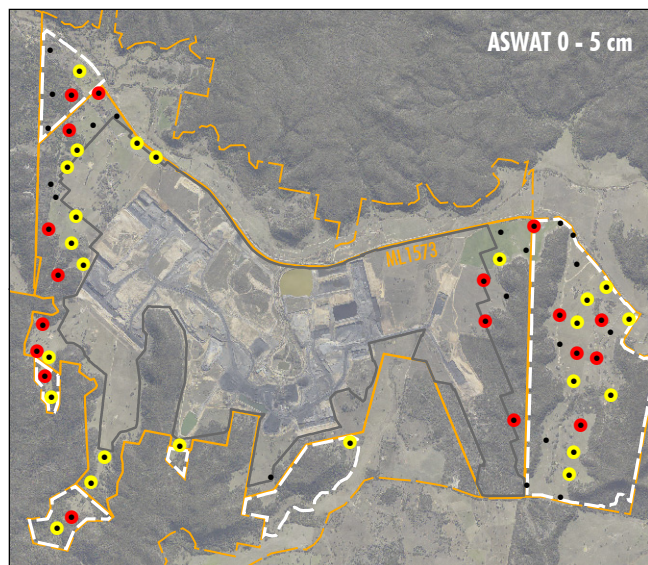






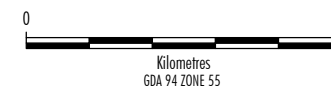






- LEGEND**
- Mining Lease Boundary
 - Exploration Licence Boundary
 - Approved/Existing Open Cut and Contained Infrastructure Boundary
 - Site Verification Certificate Application Area
 - Soil Test Pit
 - Dispersion (ASWAT)**
 - > 6
 - 2 - 6
 - < 2

Note: Test not conducted on check sites, sites where depth to rock is < 750mm, or sites where slope is > 10%.



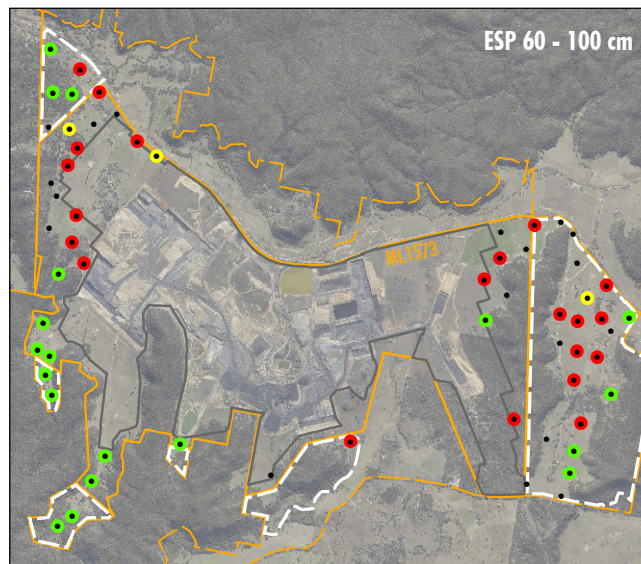
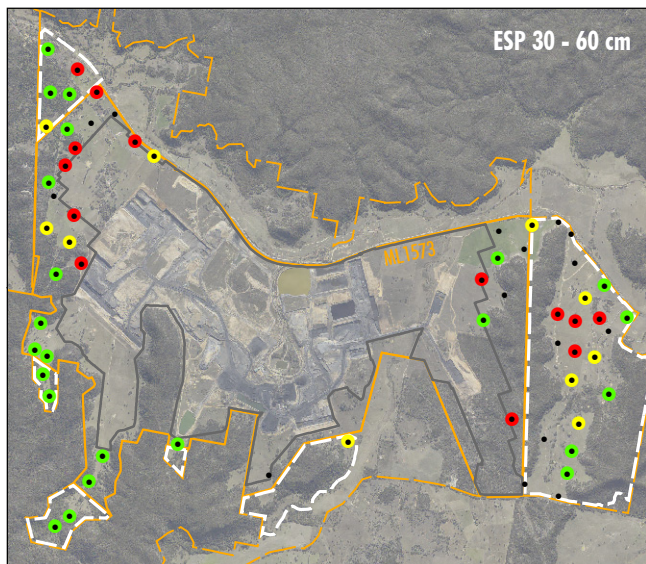
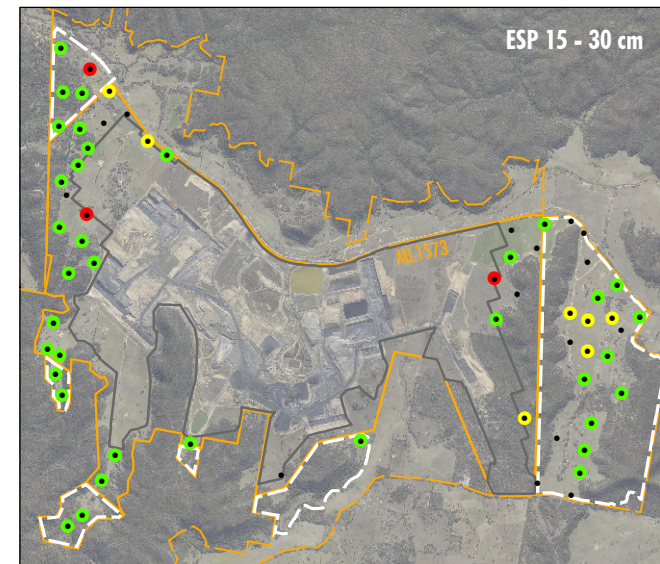
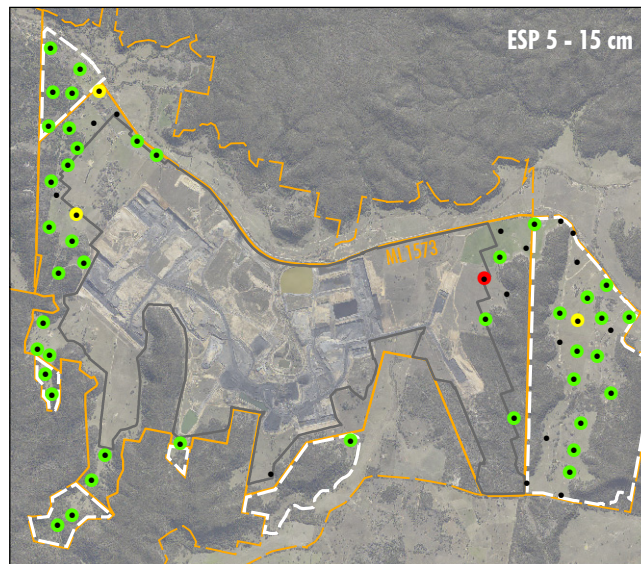
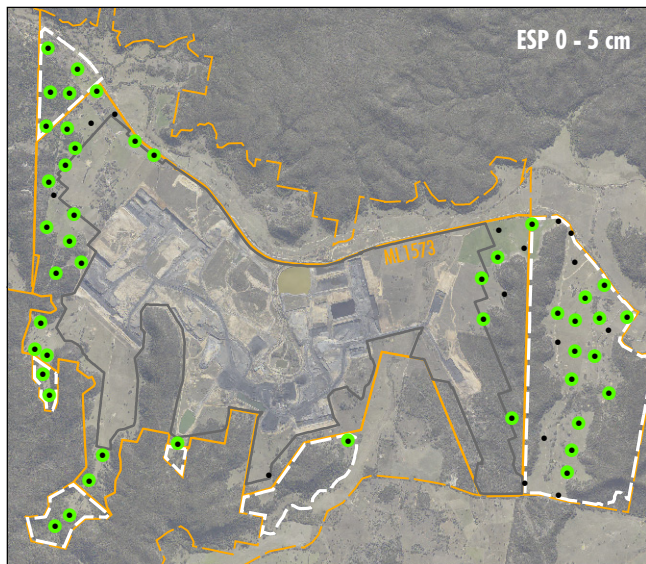
Source: NSW Trade & Investment (2013); WCPL - Orthophoto (2013)

WILPINJONG COAL MINE

MAP 7a

Dispersion (ASWAT Score)





- LEGEND
- Mining Lease Boundary
 - Exploration Licence Boundary
 - Approved/Existing Open Cut and Contained Infrastructure Boundary
 - Site Verification Certificate Application Area
 - Soil Test Pit
 - Dispersion (ESP)
 - > 6
 - 3 - 6
 - < 3

Note: Test not conducted on sites where depth to rock is < 750mm, or sites where slope is > 10%.



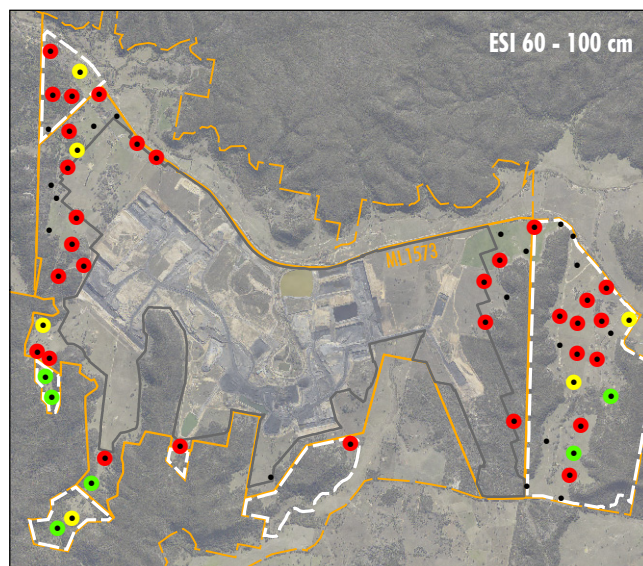
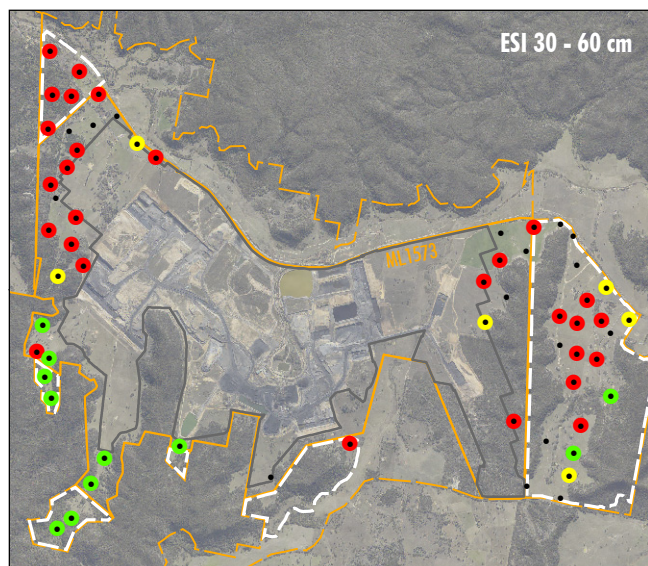
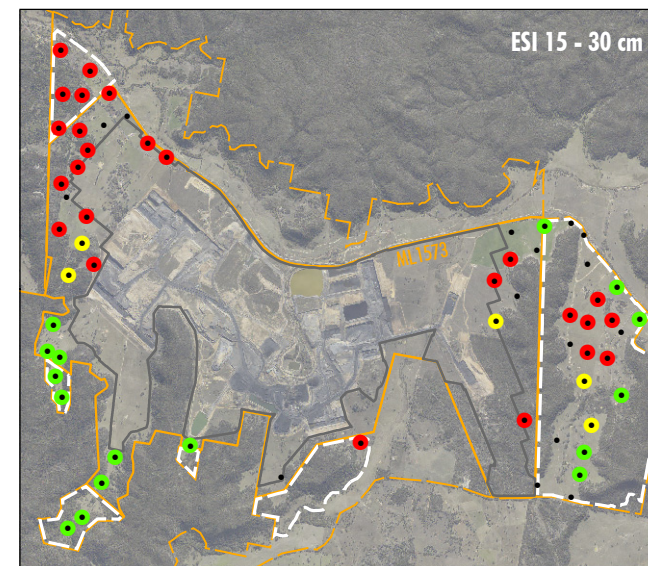
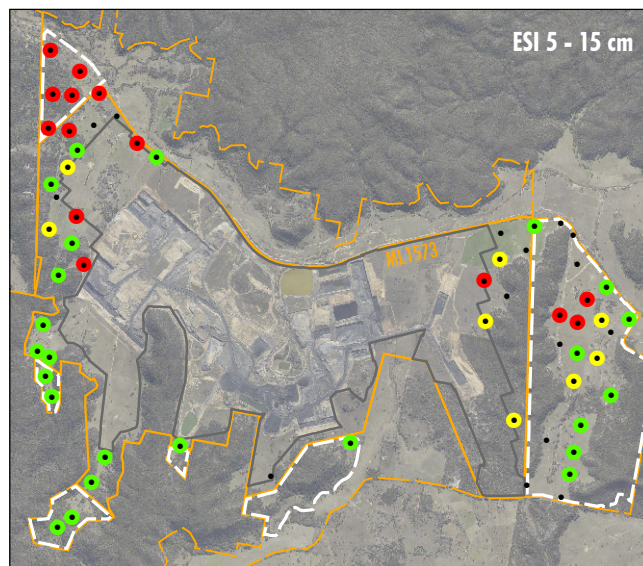
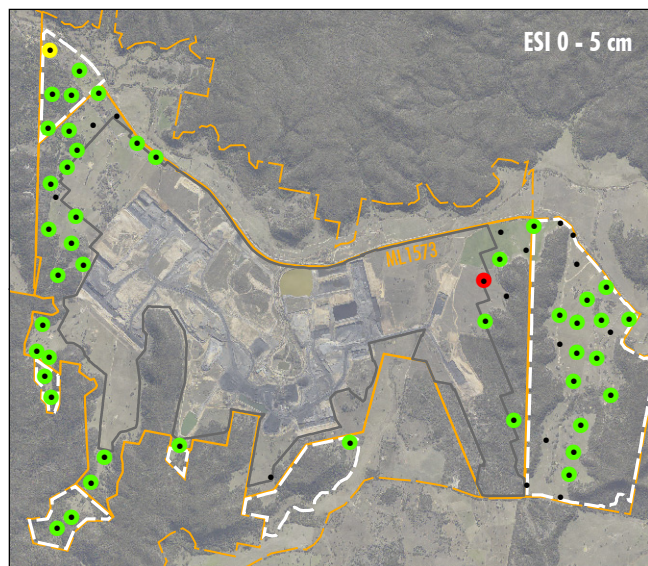
Source: NSW Trade & Investment (2013); WCPL - Orthophoto (2013)

WILPINJONG COAL MINE

MAP 7b

Dispersion (ESP Value)





- LEGEND
- Mining Lease Boundary
 - Exploration Licence Boundary
 - Approved/Existing Open Cut and Contained Infrastructure Boundary
 - Site Verification Certificate Application Area
 - Soil Test Pit
 - Dispersion (ESI)
 - < 0.03
 - 0.03 - 0.05
 - > 0.05

Note: Test not conducted on check sites, sites where depth to rock is < 750mm, or sites where slope is > 10%.



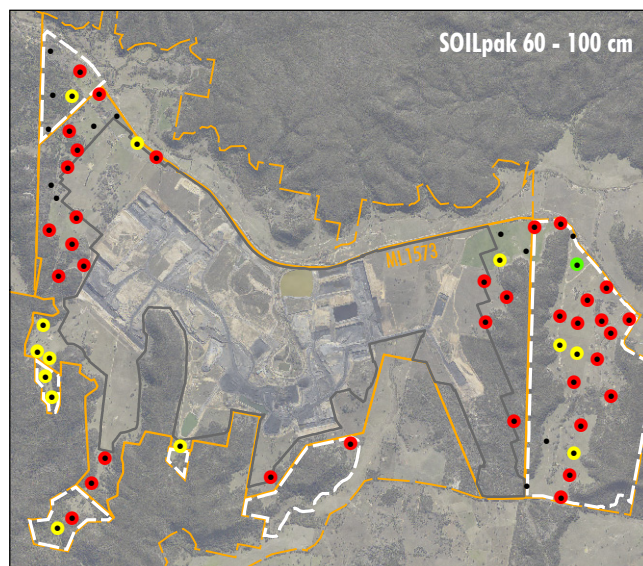
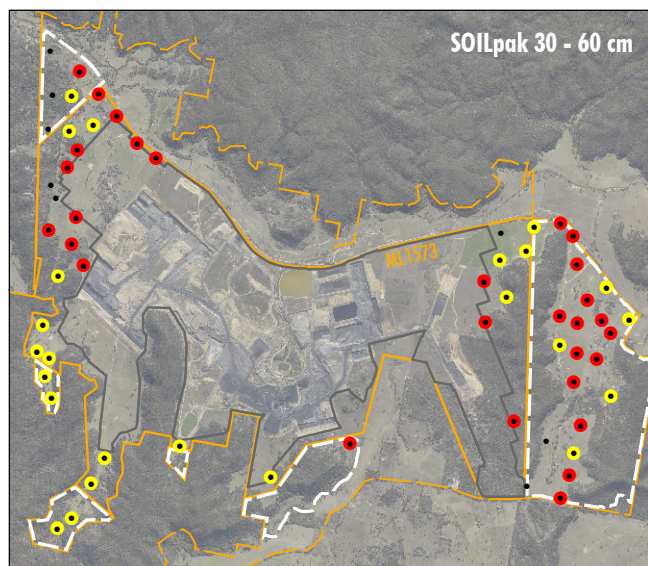
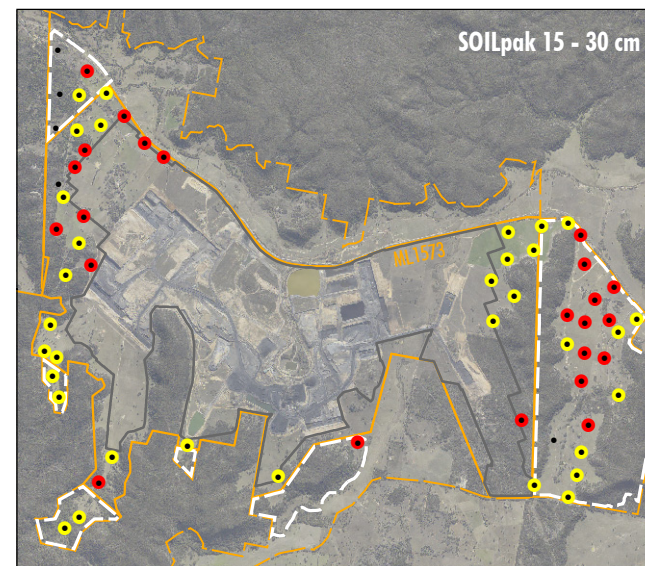
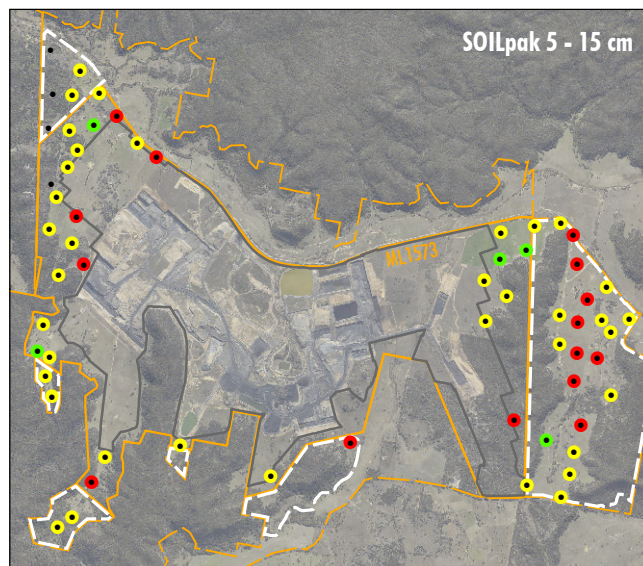
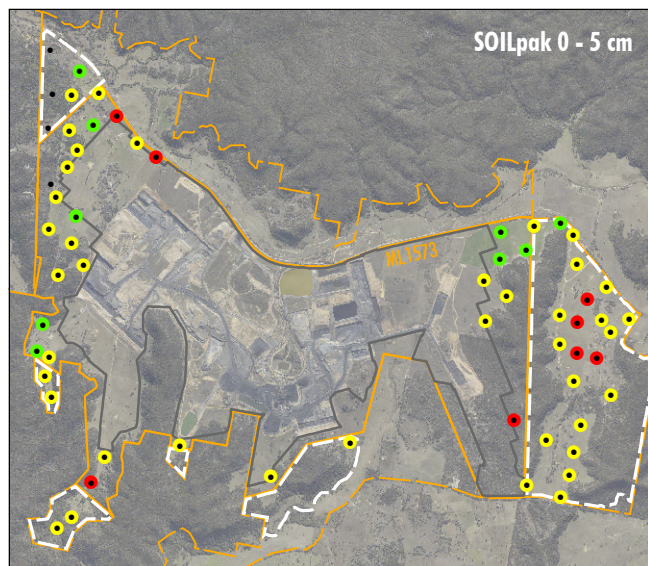
Source: NSW Trade & Investment (2013); WCPL - Orthophoto (2013)

WILPINJONG COAL MINE

MAP 7c

Dispersion (ESI Value)





- LEGEND**
- Mining Lease Boundary
 - Exploration Licence Boundary
 - Approved/Existing Open Cut and Contained Infrastructure Boundary
 - Site Verification Certificate Application Area
 - Soil Test Pit
 - Compaction Severity**
 - < 1.0
 - 1.0 - 1.5
 - > 1.5

Note: Test not conducted on check sites, sites where depth to rock is < 750mm, or sites where slope is > 10%.



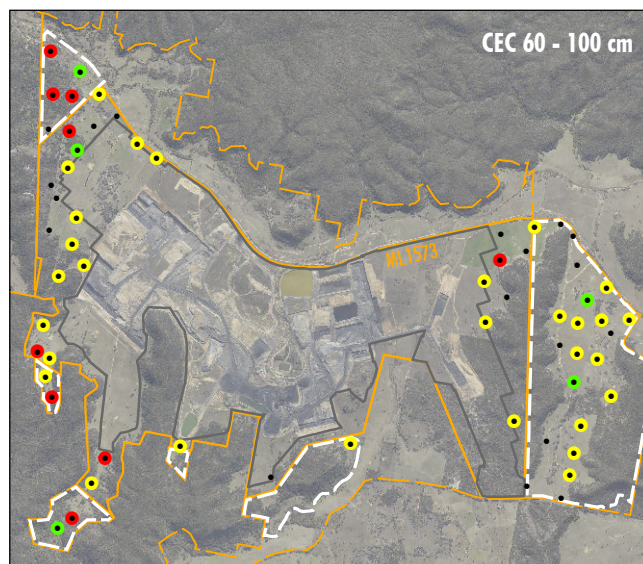
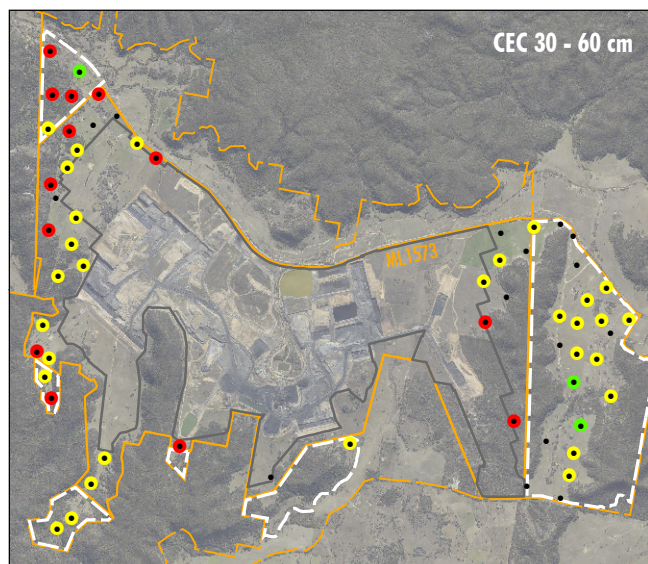
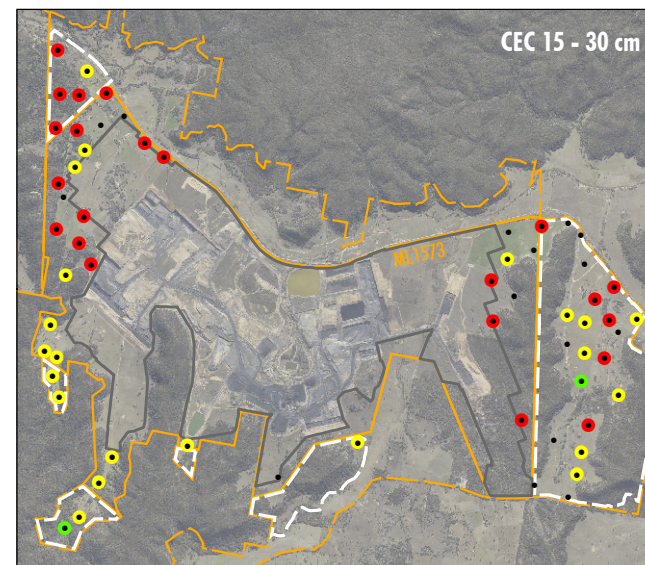
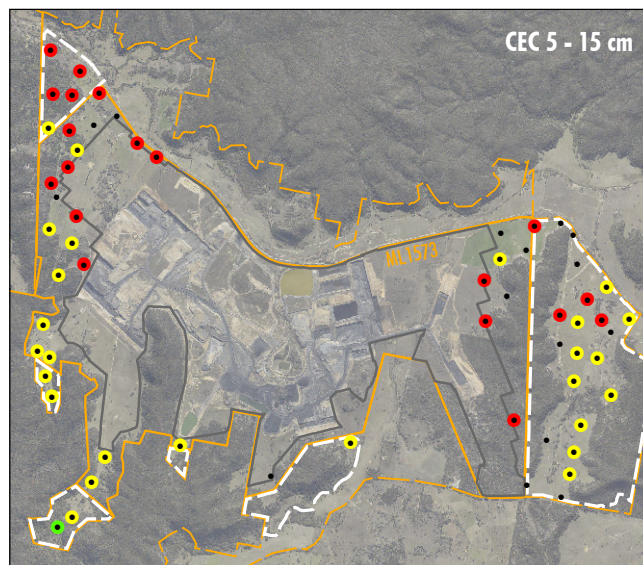
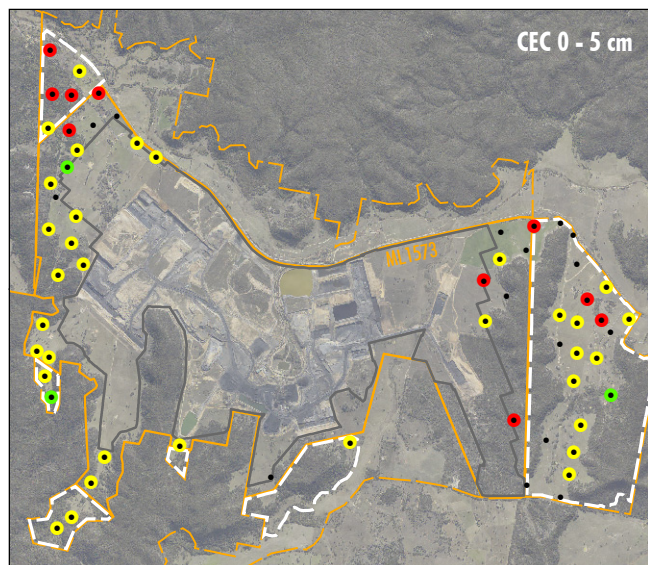
Source: NSW Trade & Investment (2013); WCPL - Orthophoto (2013)

WILPINJONG COAL MINE

MAP 8

Compaction Severity (SOILpak Score)





- LEGEND**
- Mining Lease Boundary
 - Exploration Licence Boundary
 - Approved/Existing Open Cut and Contained Infrastructure Boundary
 - Site Verification Certificate Application Area
 - Soil Test Pit
 - Cation Exchange Capacity**
 - < 5 (meq/100g)
 - 5 - 15 (meq/100g)
 - > 15 (meq/100g)

Note: Test not conducted on sites where depth to rock is < 750mm, or sites where slope is > 10%.



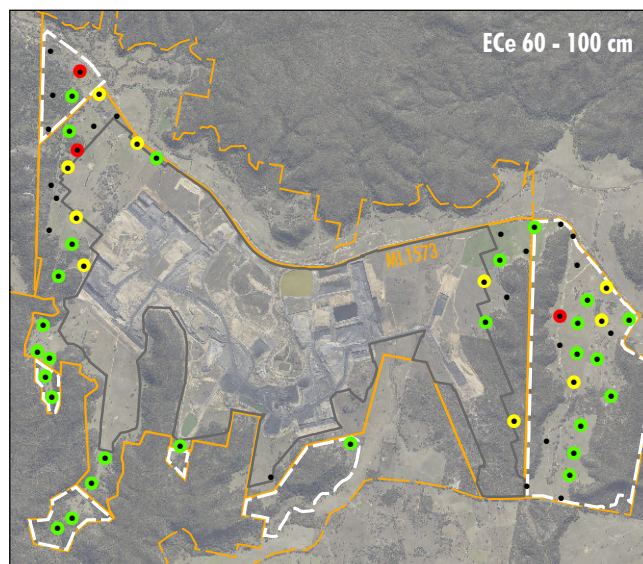
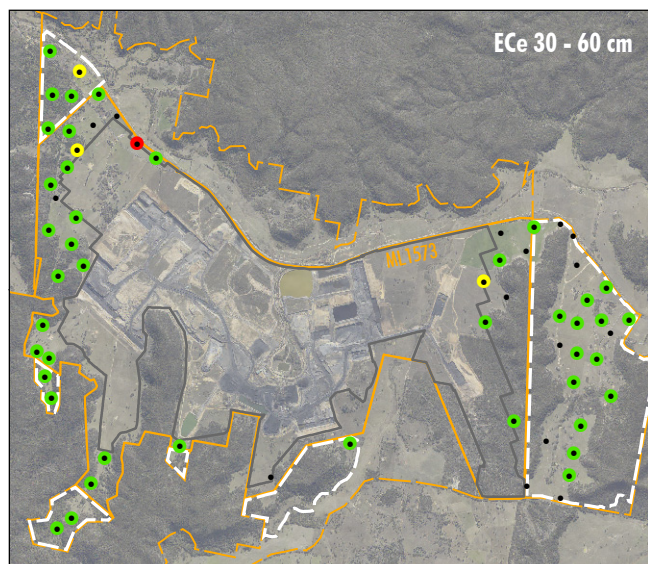
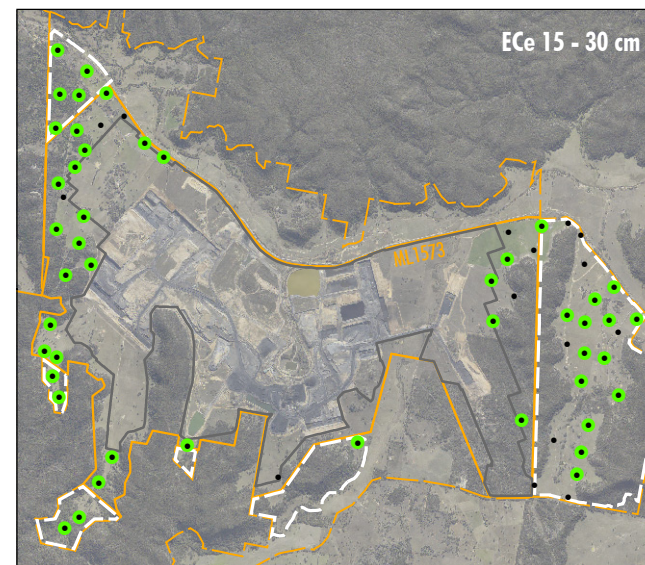
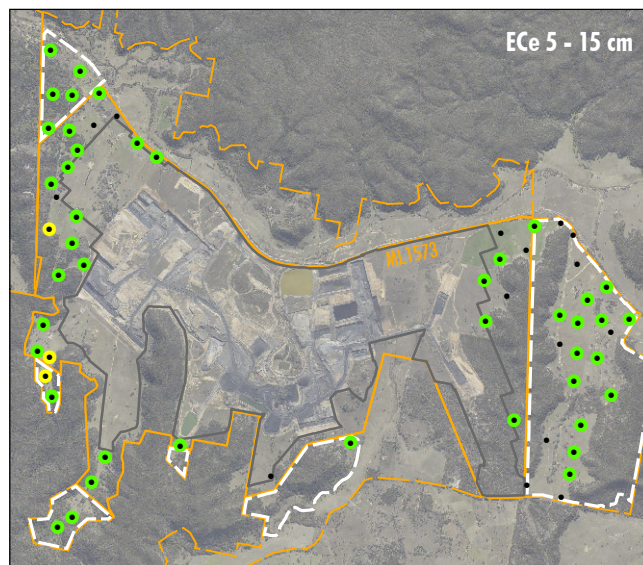
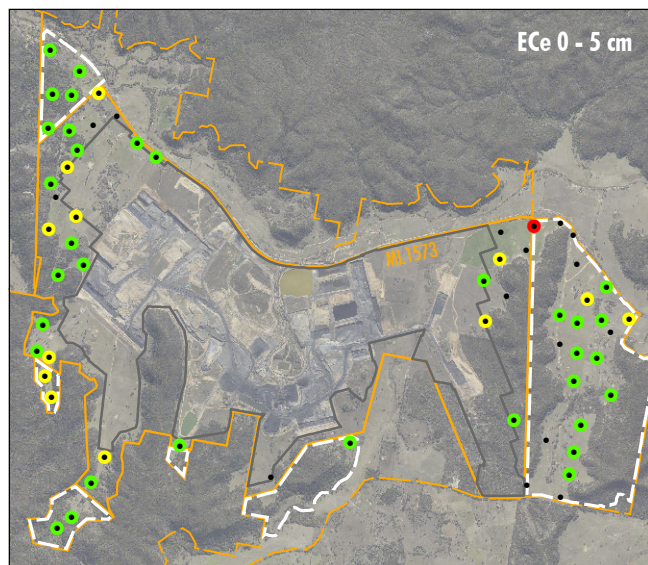
Source: NSW Trade & Investment (2013); WCPL - Orthophoto (2013)

WILPINJONG COAL MINE

MAP 9

Cation Exchange Capacity





- LEGEND**
- Mining Lease Boundary
 - Exploration Licence Boundary
 - Approved/Existing Open Cut and Contained Infrastructure Boundary
 - Site Verification Certificate Application Area
 - Soil Test Pit
- Salinity**
- > 4.0 dS/m
 - 1.5 - 4.0 dS/m
 - < 1.5 dS/m

Note: Test not conducted on check sites, sites where depth to rock is < 750mm, or sites where slope is > 10%.



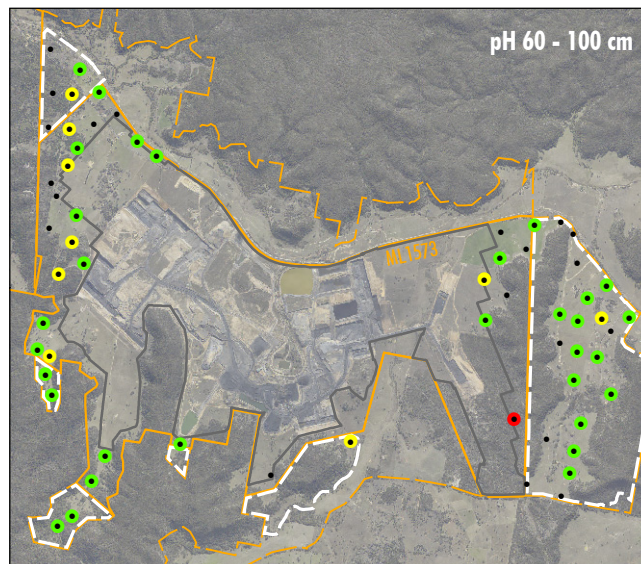
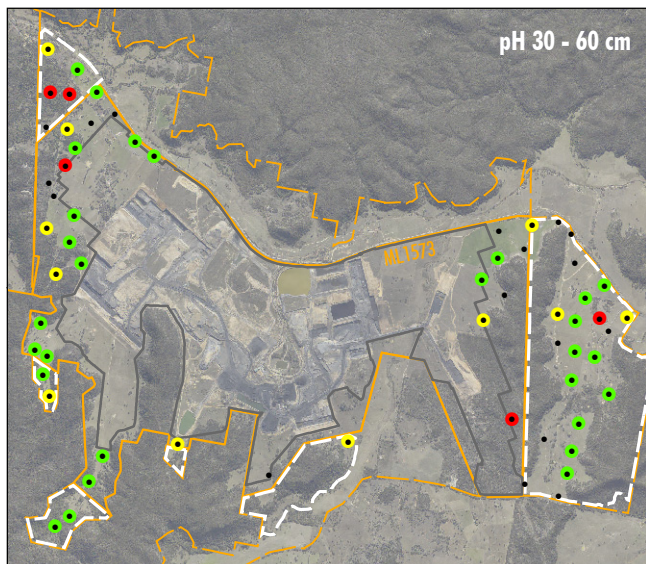
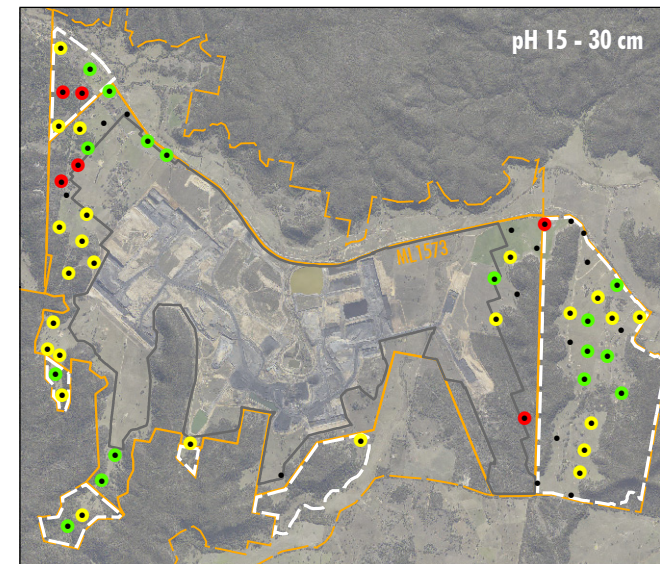
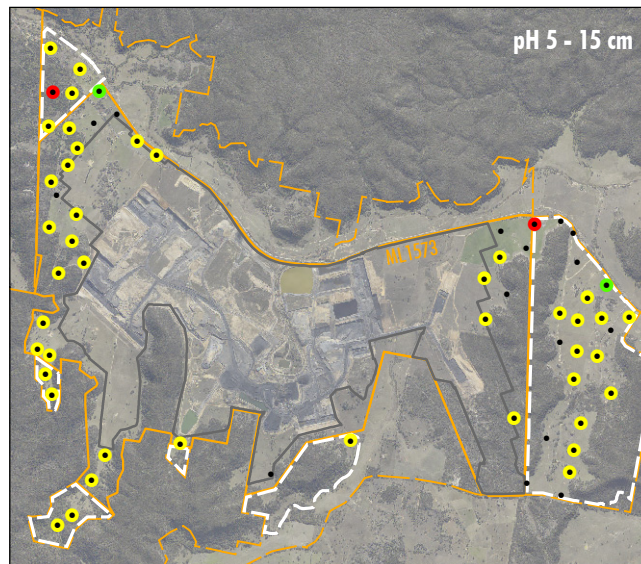
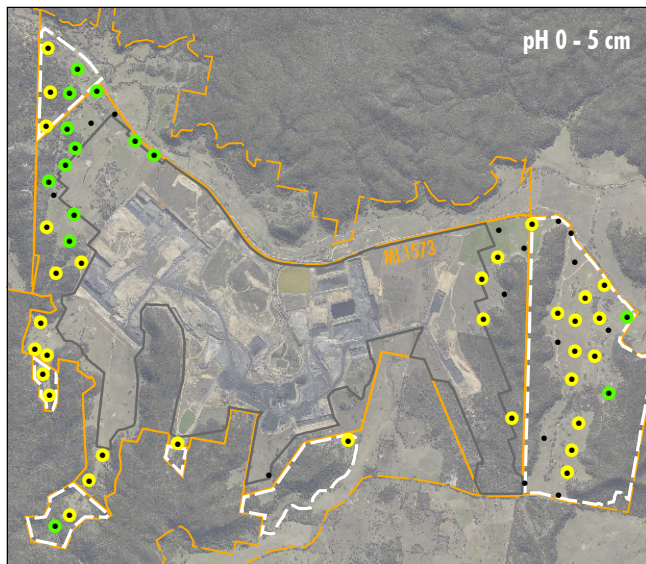
Source: NSW Trade & Investment (2013); WCPL - Orthophoto (2013)

WILPINJONG COAL MINE

MAP 10

Salinity (Electrical Conductivity - ECe)





- LEGEND**
- Mining Lease Boundary
 - Exploration Licence Boundary
 - Approved/Existing Open Cut and Contained Infrastructure Boundary
 - Site Verification Certificate Application Area
 - Soil Test Pit
 - pH**
 - < 4.5
 - 4.5 - 5.5
 - > 5.5

Note: Test not conducted on check sites, sites where depth to rock is < 750mm, or sites where slope is > 10%.



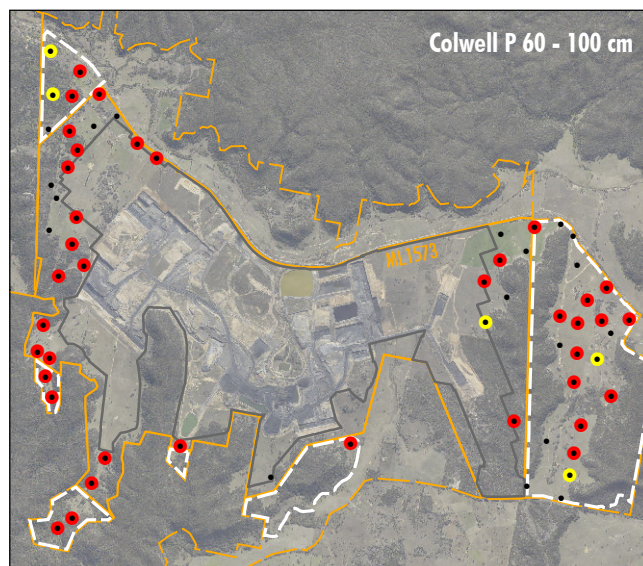
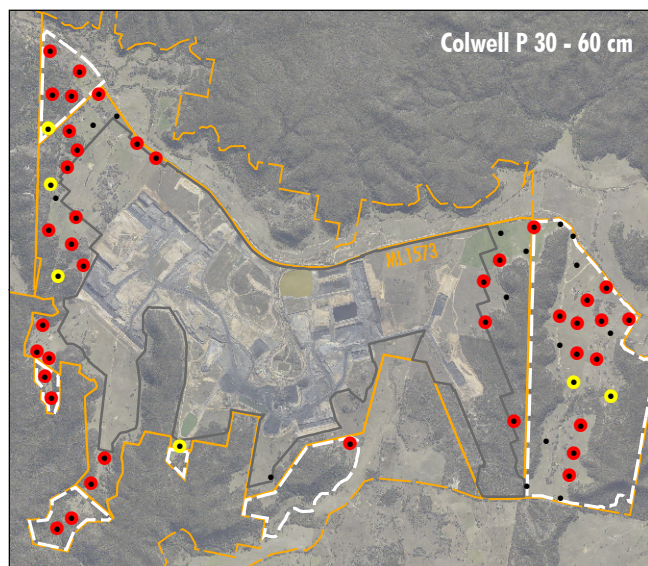
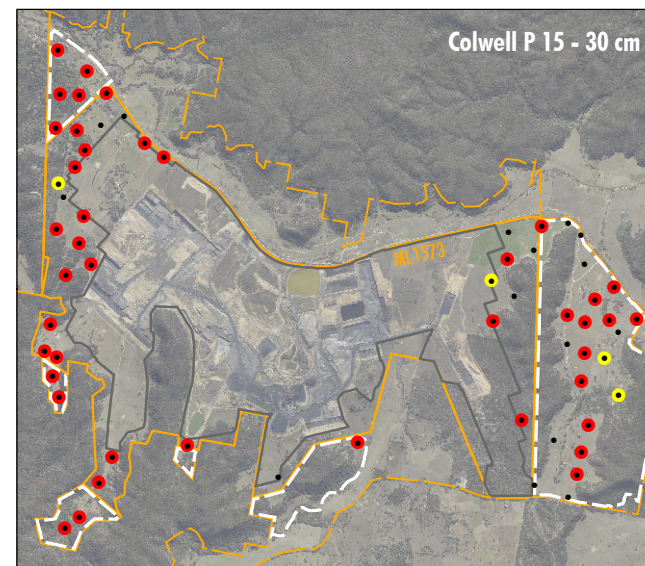
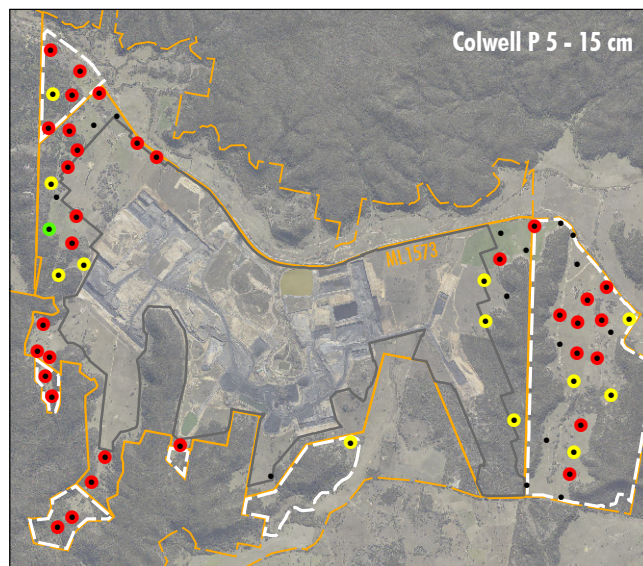
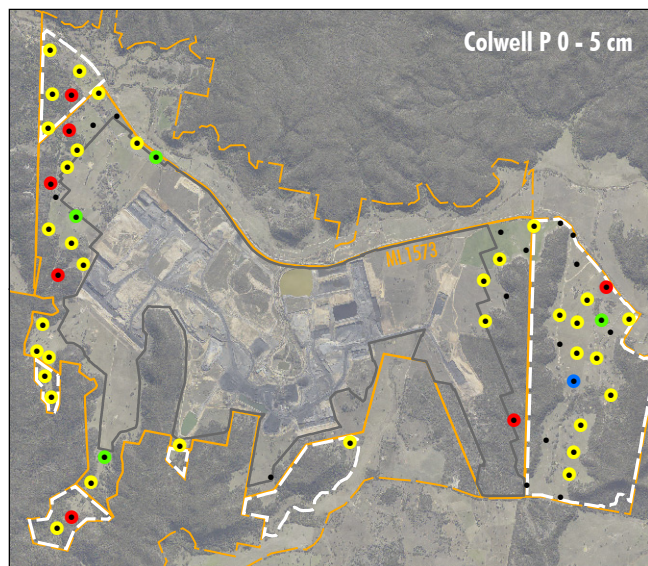
Source: NSW Trade & Investment (2013); WCPL - Orthophoto (2013)

WILPINJONG COAL MINE

MAP 11

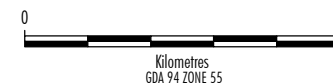
pH (CaCl₂)





- LEGEND**
- Mining Lease Boundary
 - - - Exploration Licence Boundary
 - Approved/Existing Open Cut and Contained Infrastructure Boundary
 - Site Verification Certificate Application Area
 - Soil Test Pit
 - Phosphorus**
 - < 10 mg/kg
 - 10 - 30 mg/kg
 - 31 - 100 mg/kg
 - > 100 mg/kg

Note: Test not conducted on check sites, sites where depth to rock is < 750mm, or sites where slope is > 10%.



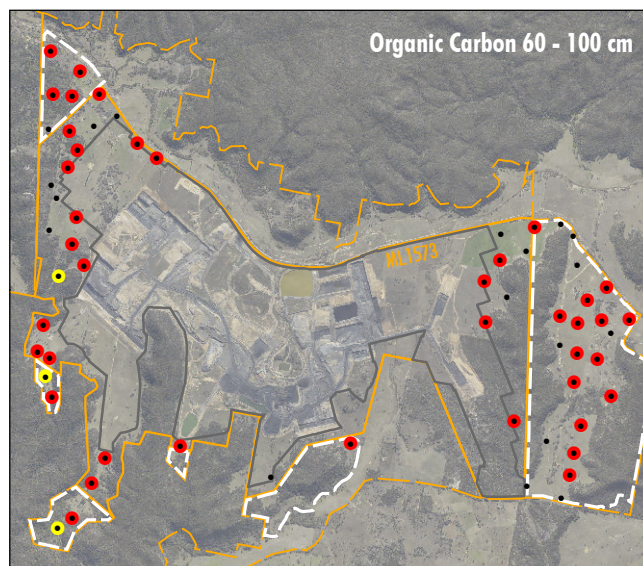
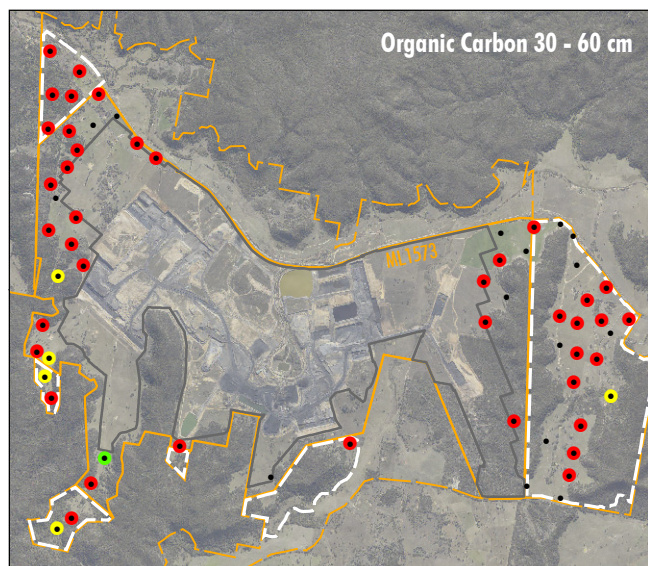
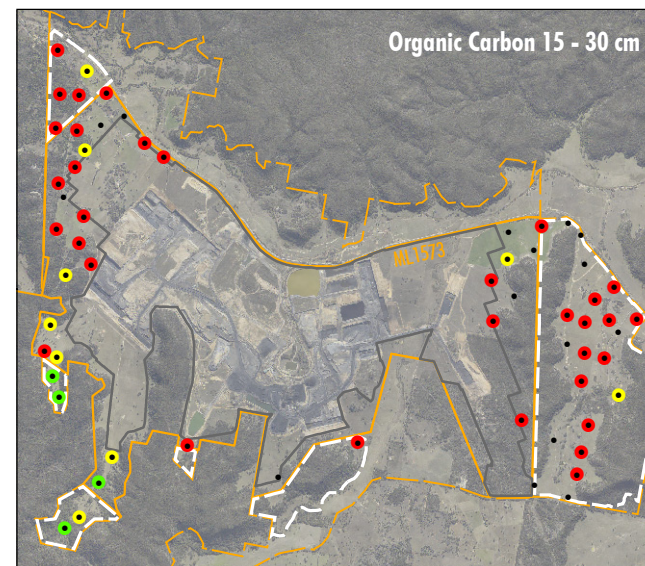
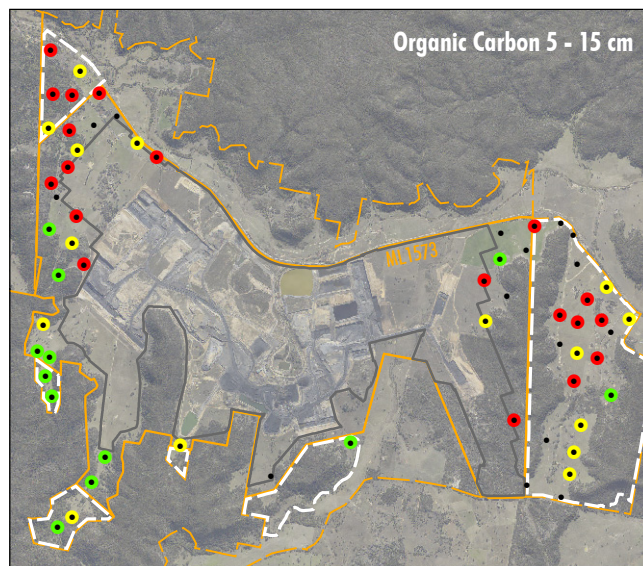
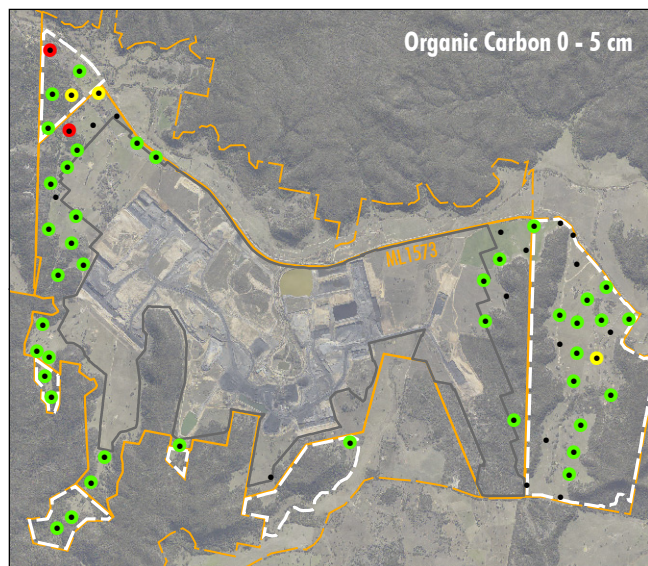
Source: NSW Trade & Investment (2013); WCPL - Orthophoto (2013)

WILPINJONG COAL MINE

MAP 12

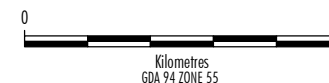
Phosphorus (Colwell P)





- LEGEND
- Mining Lease Boundary
 - Exploration Licence Boundary
 - Approved/Existing Open Cut and Contained Infrastructure Boundary
 - Site Verification Certificate Application Area
 - Soil Test Pit
 - Organic Carbon
 - < 0.8%
 - 0.8 - 1.5%
 - > 1.5%

Note: Test not conducted on check sites, sites where depth to rock is < 750mm, or sites where slope is > 10%.



Source: NSW Trade & Investment (2013); WCPL - Orthophoto (2013)

WILPINJONG COAL MINE

MAP 13

Organic Carbon



APPENDICES 1 TO 2

