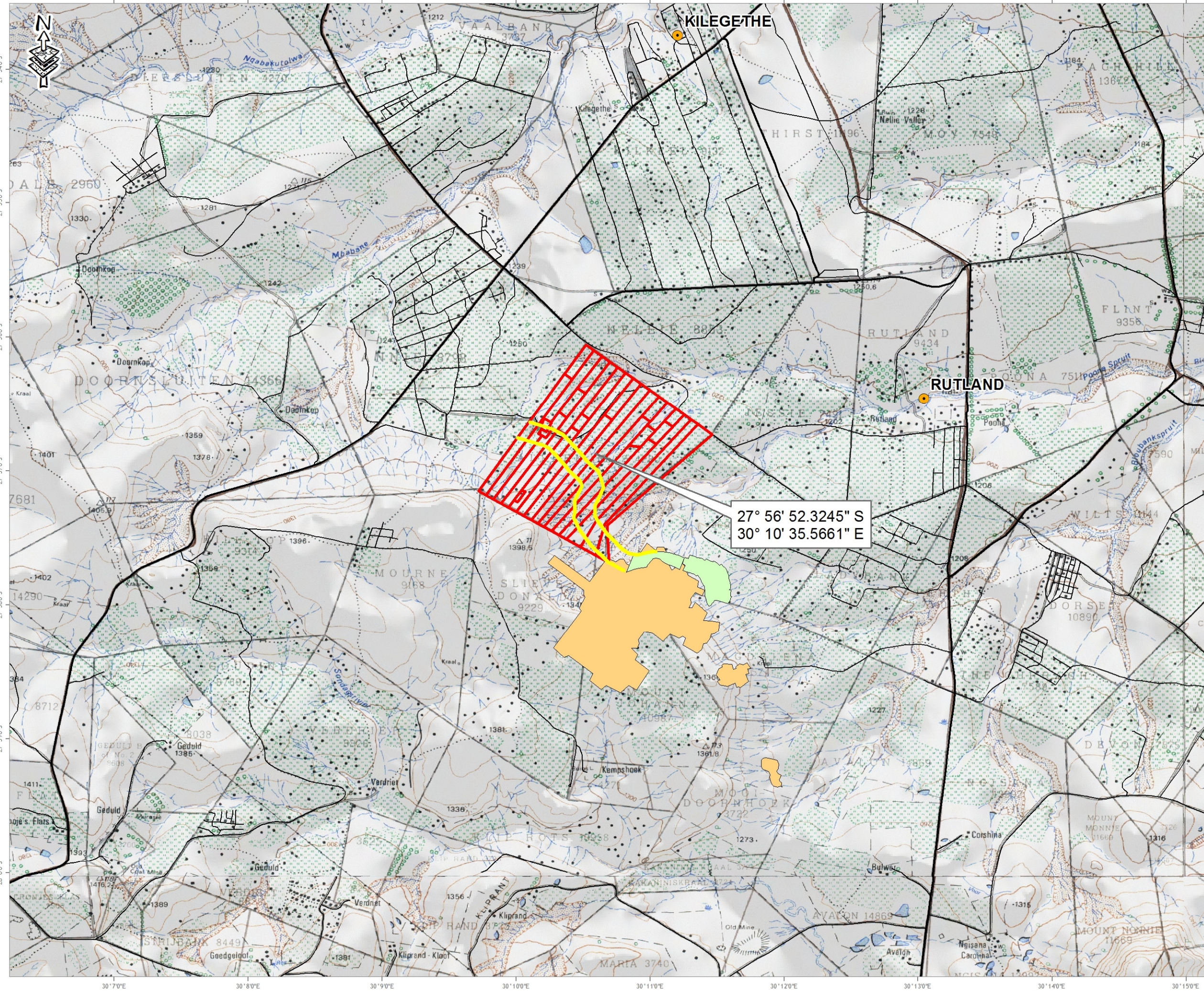










Appendix A1: Site Plan

Locality Map

ALLEEN OC EXTENSION: LOCALITY MAP



Legend

-  Towns
-  Proposed OC Expansion
-  Alleen Property Boundaries
- Road Network**
-  National Route
-  Main Road
-  Secondary Road
-  Street
-  Magdalena OC Workings
-  Magdalena UG Workings

Data Sources: THE CHIEF DIRECTORATE OF SURVEY & MAPPING
1:50 000 TOPOGRAPHICAL SERIES & CLIENT

Disclaimer:

FIGURE NO.: *

MAP NUMBER: 13-7275W-2013-11-01

DRAWN BY: G.JONES
GIS TECHNOLOGIST

REVIEWED BY: NHLAKANIPHO ZONDI
HYDROLOGIST

DATUM: WGS84

PROJECTION: GEOGRAPHIC

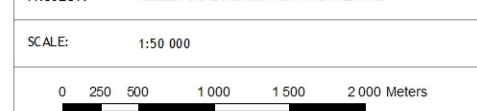
LO: 31

DATE: NOVEMBER 2013

CLIENT: FORBES COAL (PTY) LTD

PROJECT: ALLEEN OC EXTENSION ENVIRONMENTAL

SCALE: 1:50 000

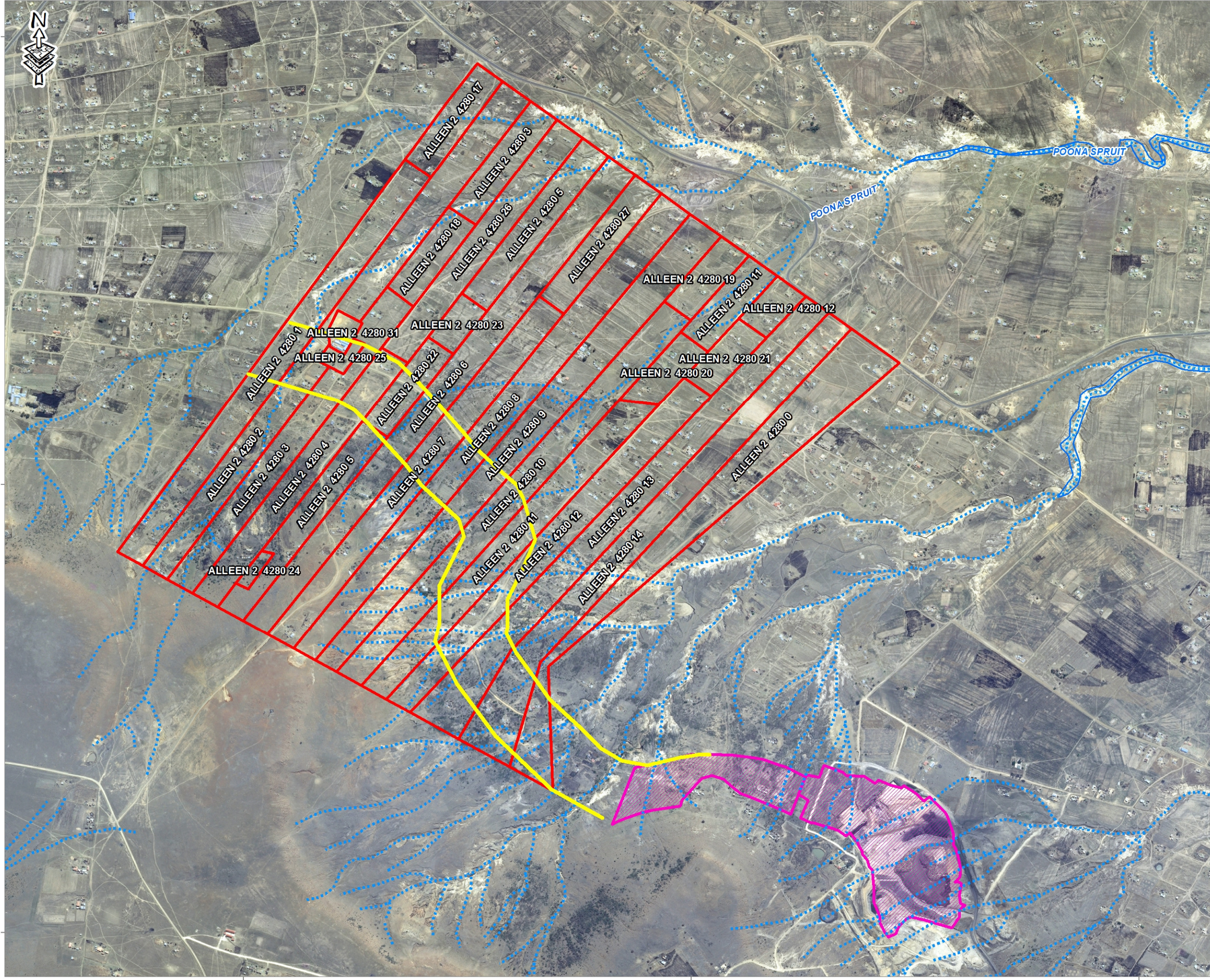



4a Old Main Road
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Kloof, 3610
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Appendix A2: Site Plan

Proposed Opencast

ALLEEN OC EXTENSION: PROPOSED OPEN CAST EXTENSION - PROPERTY NAME & PORTION NUMBER



Legend

- Proposed OC Extension
- Magdalena OC Workings
- Alleen Property Boundaries

Rivers and Streams

- Non-Perennial
- Perennial
- Dry water course
- Flood and non-perennial extent
- Perennial extent
- Sand Bank

Data Sources: THE CHIEF DIRECTORATE OF SURVEY & MAPPING
1:50 000 TOPOGRAPHICAL SERIES & CLIENT

Disclaimer:

FIGURE NO.: *

MAP NUMBER: 13-7275W-2013-11-02

DRAWN BY: G. JONES
GIS TECHNOLOGIST

REVIEWED BY: NHLAKANIPHO ZONDI
HYDROLOGIST

DATUM: WGS84
PROJECTION: GEOGRAPHIC
LO: 31

DATE: NOVEMBER 2013

CLIENT: FORBES COAL (PTY) LTD

PROJECT: ALLEEN OC EXTENSION

SCALE: 1:15 000

0 100 200 400 600 Meters

GCS
Water & Environmental
Consultants

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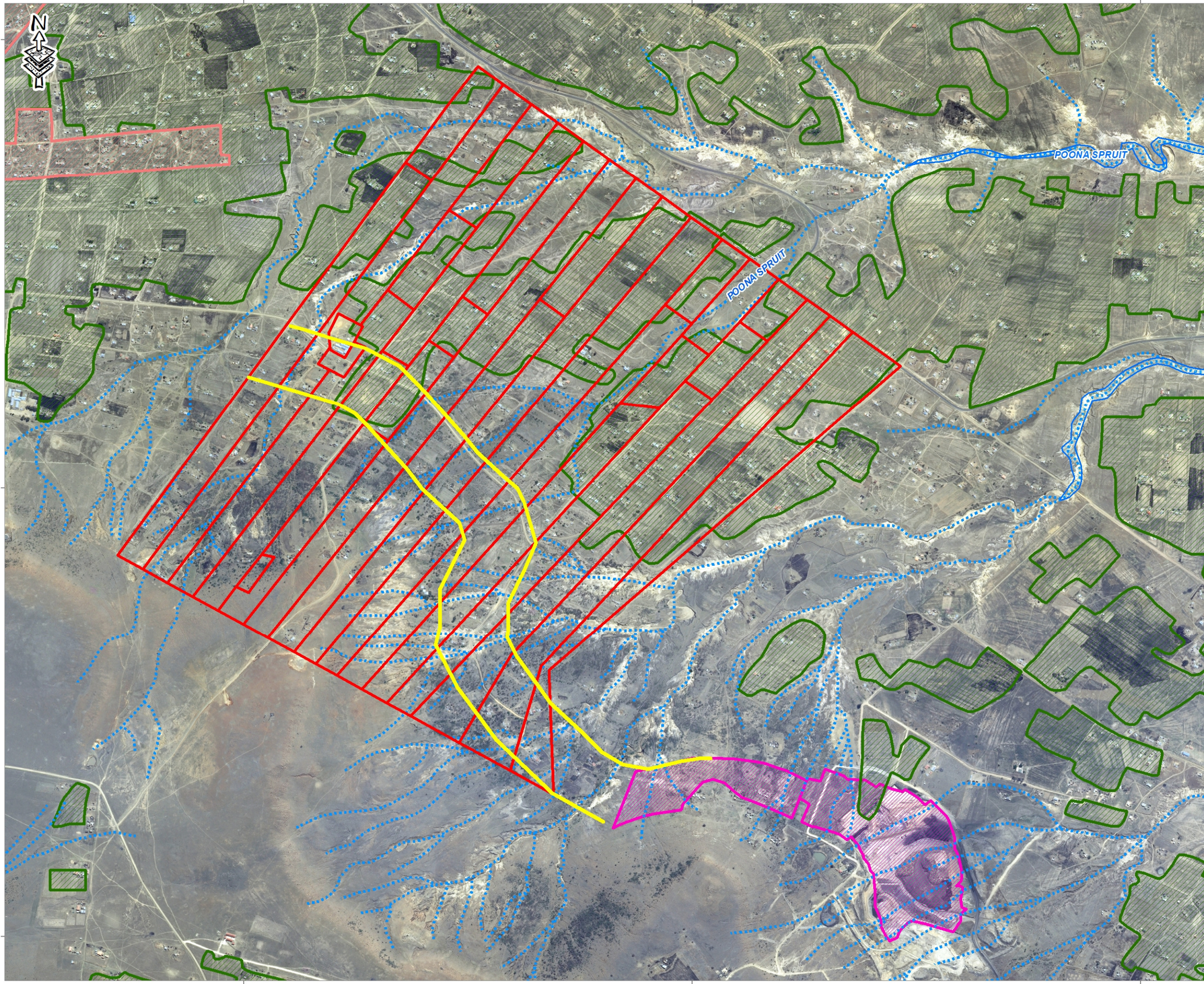
27°56'0"S
27°57'0"S
27°58'0"S

30°10'0"E 30°11'0"E 30°12'0"E










Appendix A3: Site Plan

Land Use

ALLEEN OC EXTENSION: PROPOSED OPEN CAST EXTENSION - LAND USE



Legend

-  Proposed OC Extension
 -  Magdalena OC Workings
 -  Allen Property Boundaries
 -  Low Urban Density
 -  Cultivated Land
- ### Rivers and Streams
-  Non-Perennial
 -  Perennial
 -  Dry water course
 -  Flood and non-perennial extent
 -  Perennial extent
 -  Sand Bank

Data Sources: THE CHIEF DIRECTORATE OF SURVEY & MAPPING
1:50 000 TOPOGRAPHICAL SERIES & CLIENT

Disclaimer:

FIGURE NO.: *

MAP NUMBER: 13-7275W-2013-11-02

DRAWN BY: G. JONES
GIS TECHNOLOGIST

REVIEWED BY: NHLAKANIPHO ZONDI
HYDROLOGIST

DATUM: WGS84
PROJECTION: GEOGRAPHIC
LO: 31

DATE: NOVEMBER 2013

CLIENT: FORBES COAL (PTY) LTD

PROJECT: ALLEEN OC EXTENSION

SCALE: 1:15 000

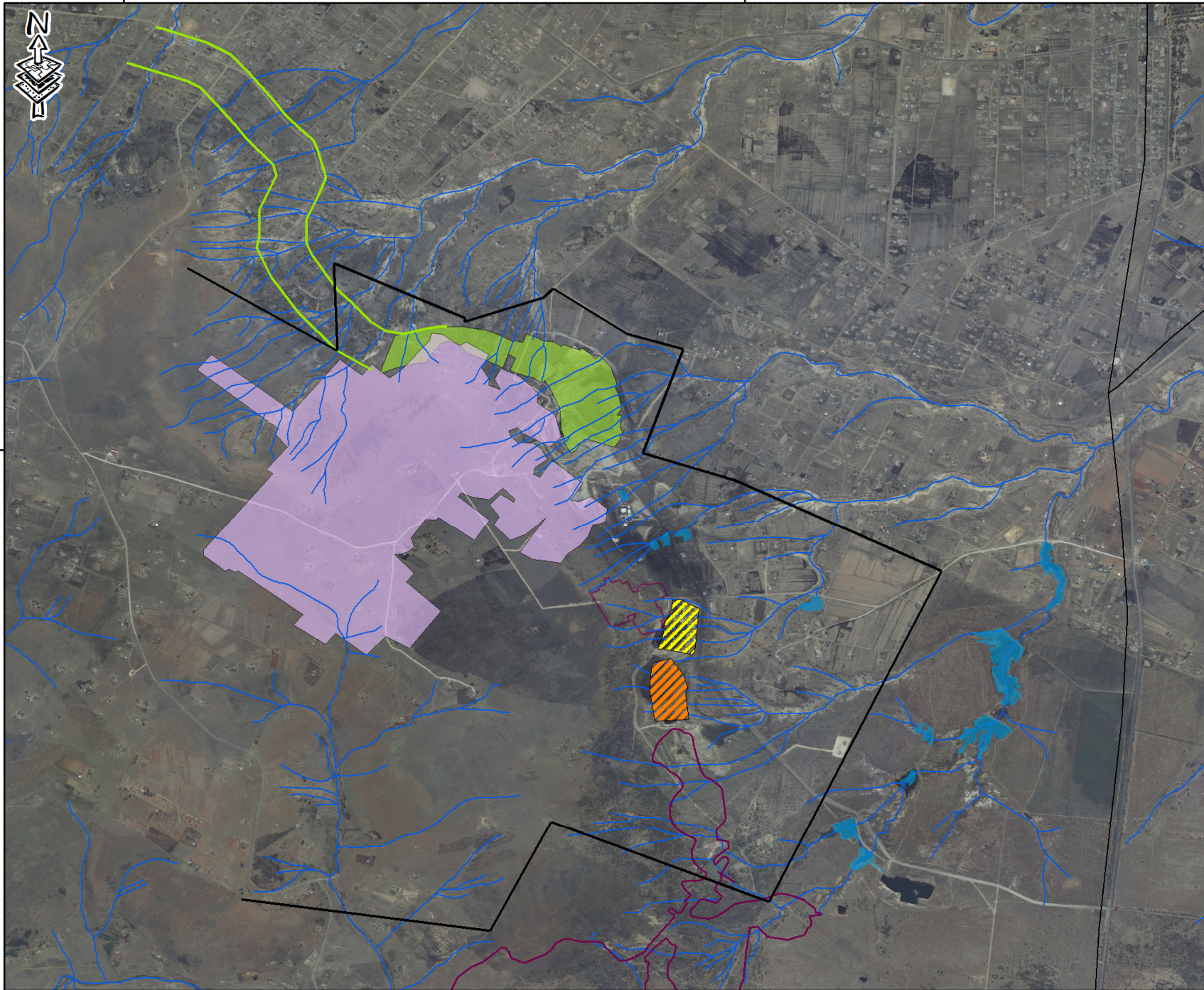


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Appendix A4: Site Plan

Magdalena Colliery Operations

MAGDALENA COLLIERY



Legend

- Dams
- Slurry Pond
- Proposed OC Expansion
- Mineral Rights Boundary
- Existing OC workings
- Discard Dump
- UG workings**
- Forbes UG workings
- Abandoned UG workings
- Rivers**
- Non-Perennial River
- Perennial River

DRAWN BY:	C. PICKERING EARTH SCIENTIST
REVIEWED BY:	P. LABUSCHAGNE DIRECTOR
DATUM:	WGS84
PROJECTION:	GEOGRAPHIC
DATE:	MARCH 2013
CLIENT:	FORBES
PROJECT:	OPENCAST EXPANSION
SCALE:	1:22,682
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27°38'0"E

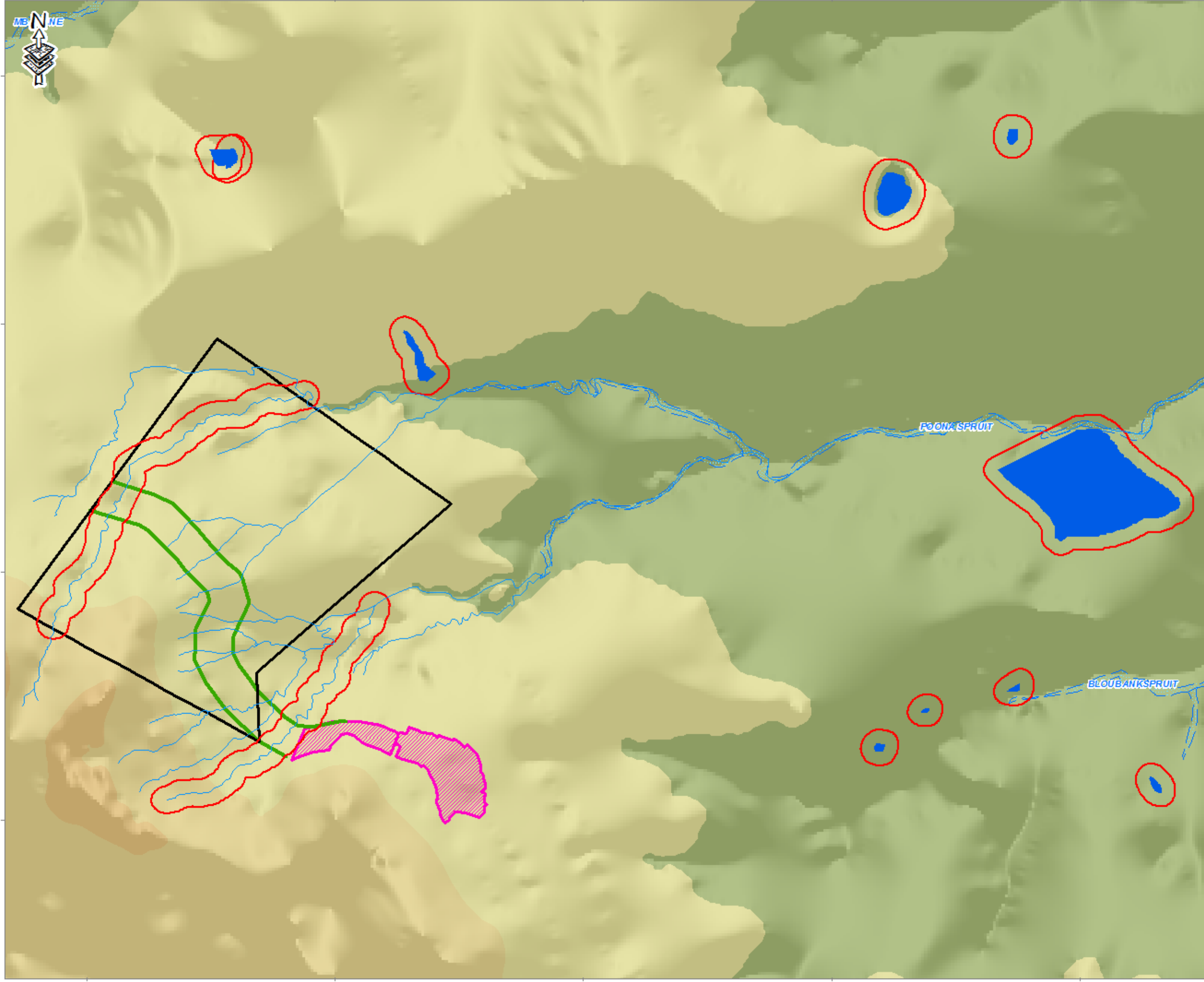
30°10'0"E

30°12'0"E

Appendix A5: Site Plan

Wetland and Drainage Line Buffer Map

ALLEEN OC EXTENSION: 100M WETLAND AND DRAINAGE BUFFER



Legend

- Drainage Lines
- Wetlands (NFEPA Wetland Map)
- 100m buffer
- Cadastral Boundary Areas
- Proposed OC Extension
- Magdalena OC Workings

Altitude (mamsl)

- 1 059.421021 - 1 139.766778
- 1 139.766779 - 1 220.112535
- 1 220.112536 - 1 300.458293
- 1 300.458294 - 1 380.80405
- 1 380.804051 - 1 461.149807
- 1 461.149808 - 1 541.495565
- 1 541.495566 - 1 621.841322
- 1 621.841323 - 1 702.18708
- 1 702.187081 - 1 782.532837

Data Sources: THE CHIEF DIRECTORATE OF SURVEY & MAPPING- 2011 AERIAL PHOTOGRAPHY & CLIENT

Disclaimer:

FIGURE NO.: *

MAP NUMBER: 13-7275W-2013-11-02

DRAWN BY: G. JONES
GIS TECHNOLOGIST

REVIEWED BY: KELLY TAYLOR
ENVIRONMENTAL CONSULTANT

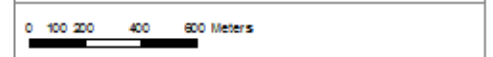
DATUM: WGS84
PROJECTION: GEOGRAPHIC
LO: 31

DATE: AUGUST 2014

CLIENT: FORBES COAL (PTY) LTD

PROJECT: ALLEEN OC EXTENSION

SCALE: 1:27 117



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30°100'E 30°110'E 30°120'E 30°130'E 30°140'E