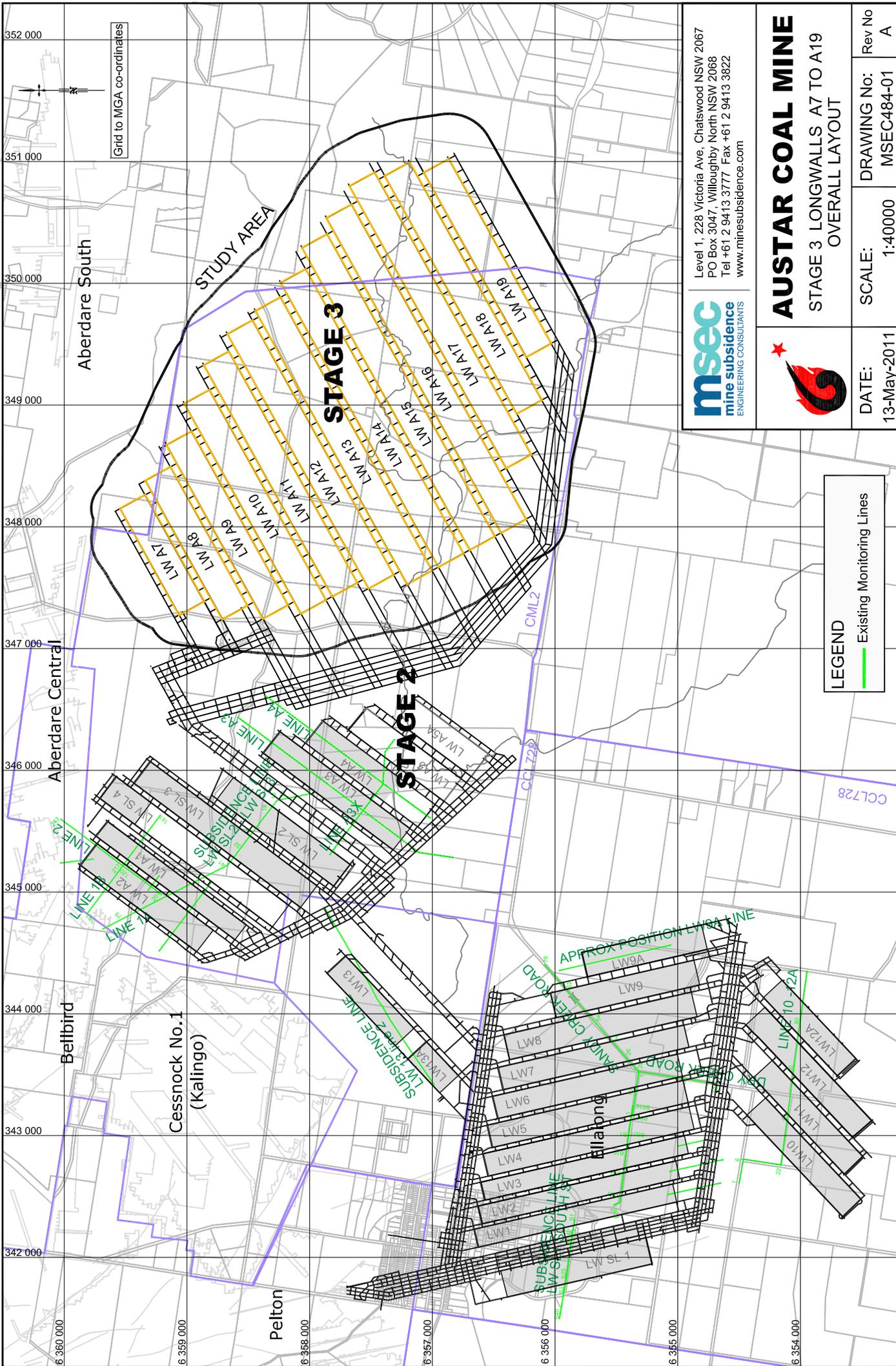


## APPENDIX G. DRAWINGS



Level 1, 228 Victoria Ave, Chatswood NSW 2067  
 PO Box 3047, Willoughby North NSW 2068  
 Tel +61 2 9413 3777 Fax +61 2 9413 3822  
 www.minesubsidence.com



# AUSTAR COAL MINE

## STAGE 3 LONGWALLS A7 TO A19 OVERALL LAYOUT

|                      |                   |                           |             |
|----------------------|-------------------|---------------------------|-------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:40000 | DRAWING No:<br>MSEC484-01 | Rev No<br>A |
|----------------------|-------------------|---------------------------|-------------|

|  |
|--|
| <b>LEGEND</b>  |
| <span style="color: green;">—</span> Existing Monitoring Lines |

Level 1, 228 Victoria Ave, Chatswood NSW 2067  
PO Box 3047, Willoughby North NSW 2068  
Tel +61 2 9413 3777 Fax +61 2 9413 3822  
www.minesubsidence.com



# AUSTAR COAL MINE

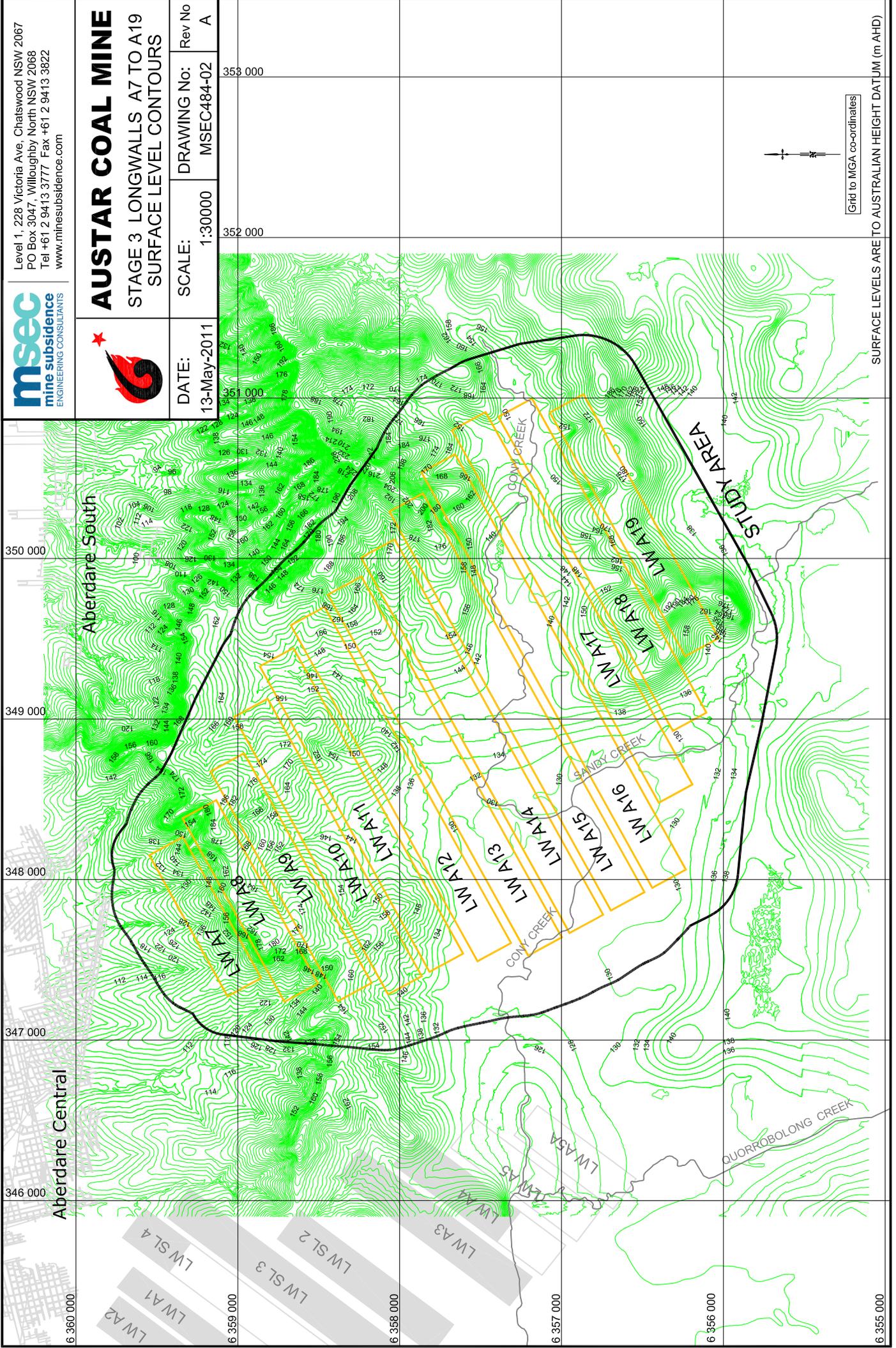
## STAGE 3 LONGWALLS A7 TO A19 SURFACE LEVEL CONTOURS

DATE:  
13-May-2011

SCALE:  
1:30000

DRAWING No:  
MSEC484-02

Rev No  
A



SURFACE LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (m AHD)

Level 1, 228 Victoria Ave, Chatswood NSW 2067  
PO Box 3047, Willoughby North NSW 2068  
Tel +61 2 9413 3777 Fax +61 2 9413 3822  
www.minesubsidence.com



# AUSTAR COAL MINE

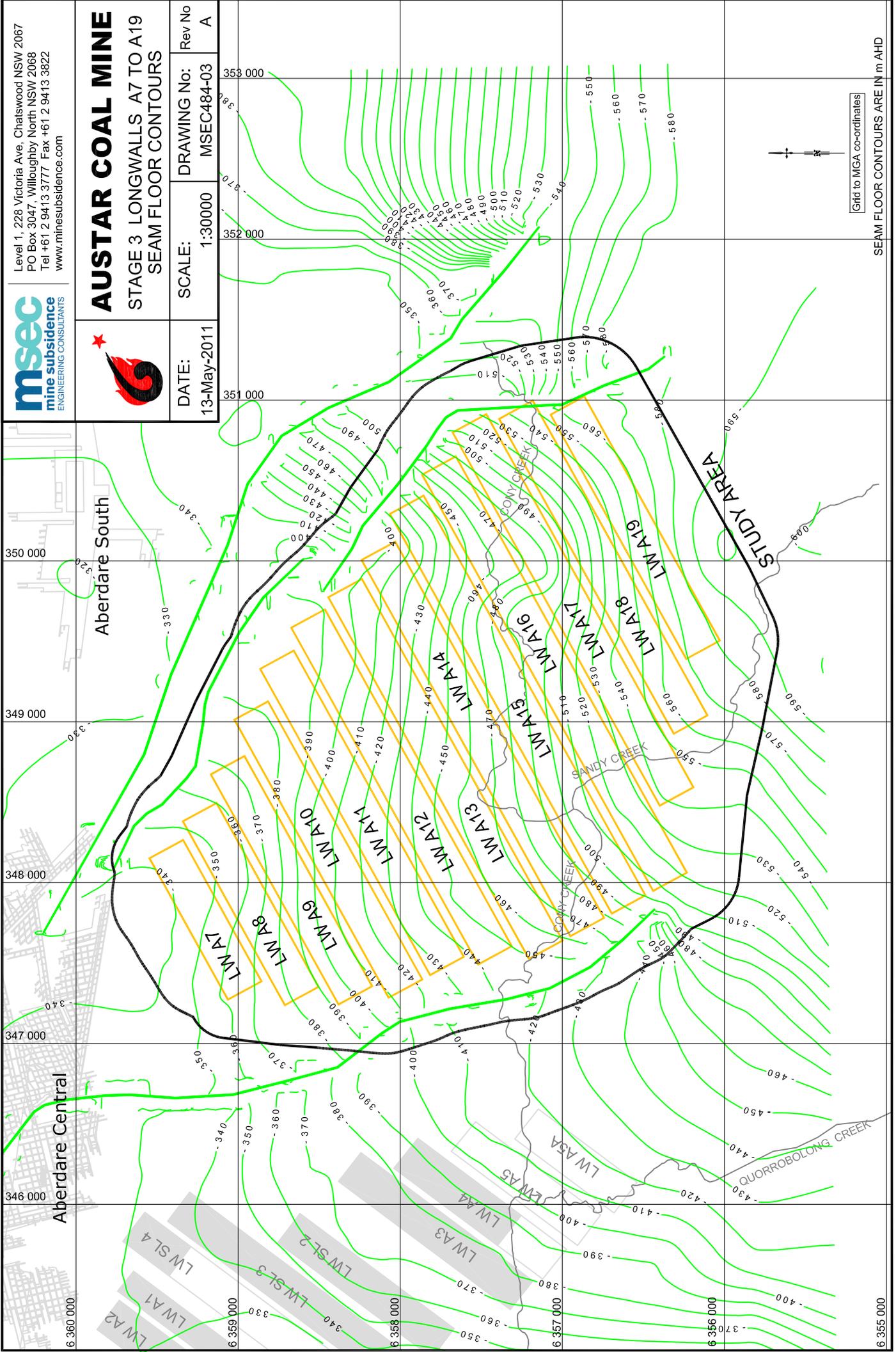
## STAGE 3 LONGWALLS A7 TO A19 SEAM FLOOR CONTOURS

DATE:  
13-May-2011

SCALE:  
1:30000

DRAWING No:  
MSEC484-03

Rev No  
A



Grid to MGA co-ordinates

SEAM FLOOR CONTOURS ARE IN m AHD



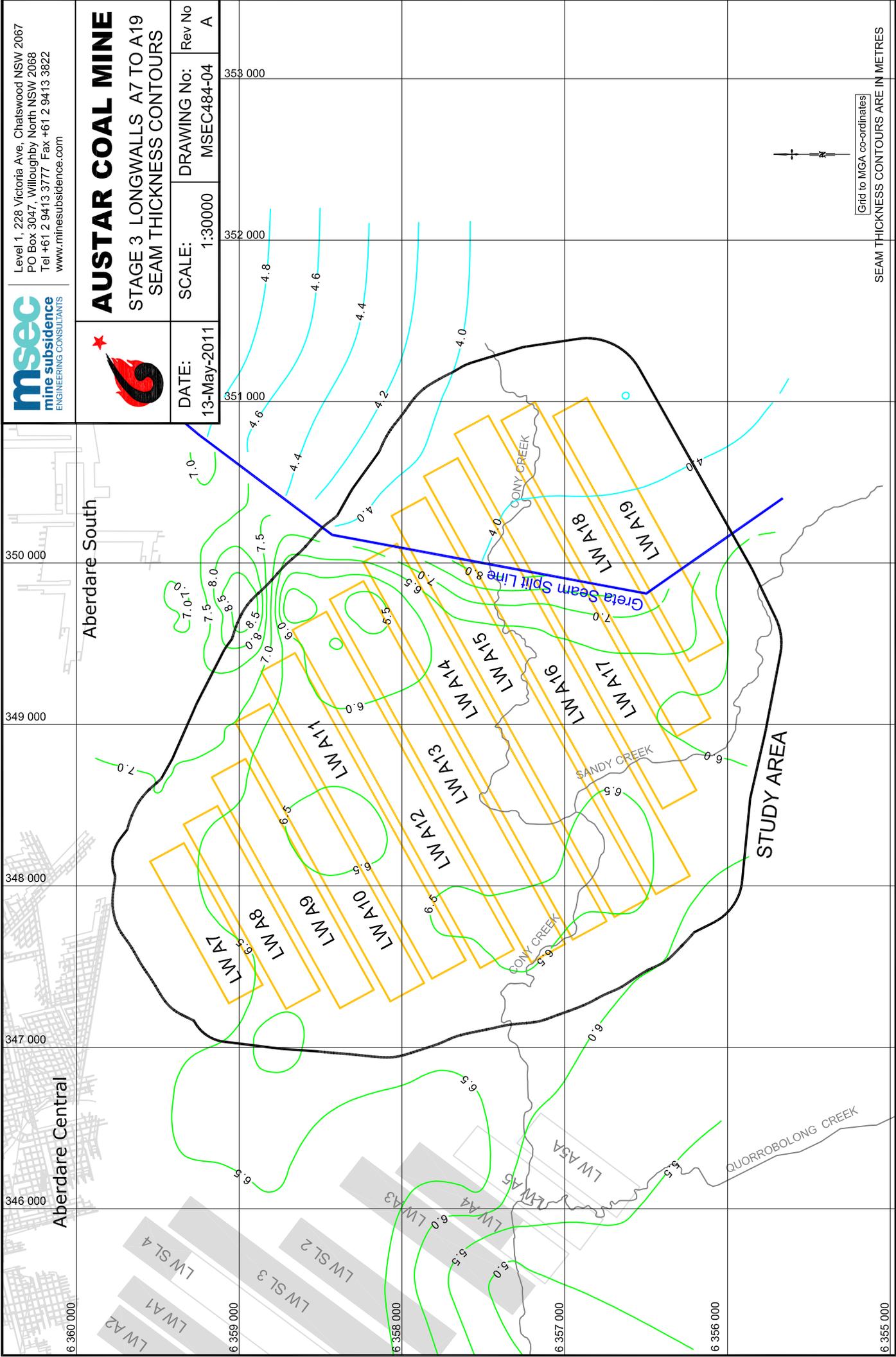
Level 1, 228 Victoria Ave, Chatswood NSW 2067  
 PO Box 3047, Willoughby North NSW 2068  
 Tel +61 2 9413 3777 Fax +61 2 9413 3822  
 www.minesubsidence.com



# AUSTAR COAL MINE

## STAGE 3 LONGWALLS A7 TO A19 SEAM THICKNESS CONTOURS

|                      |                   |                           |             |
|----------------------|-------------------|---------------------------|-------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:30000 | DRAWING No:<br>MSEC484-04 | Rev No<br>A |
|----------------------|-------------------|---------------------------|-------------|



Grid to MGA co-ordinates

SEAM THICKNESS CONTOURS ARE IN METRES

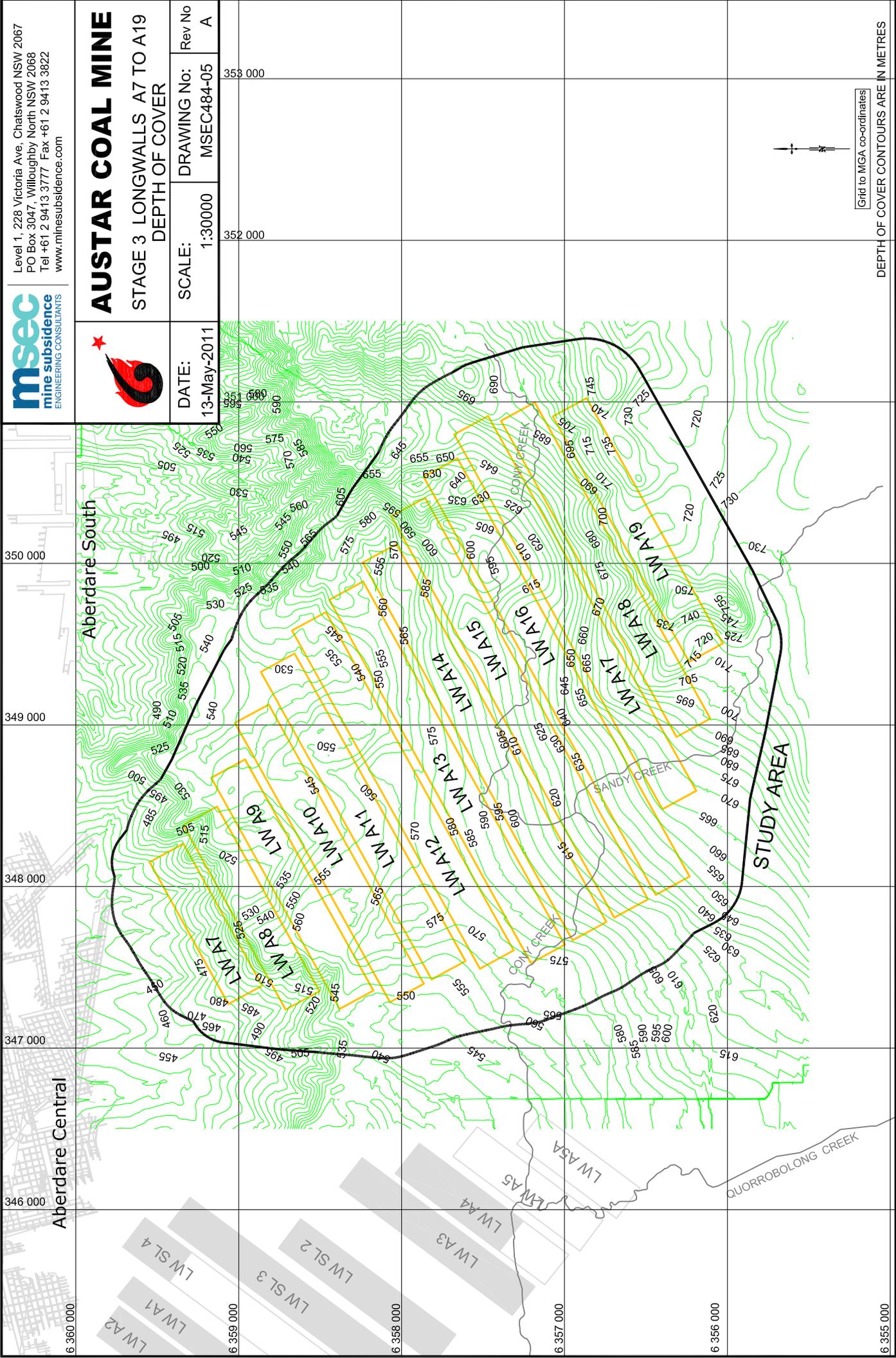
Level 1, 228 Victoria Ave, Chatswood NSW 2067  
 PO Box 3047, Willoughby North NSW 2068  
 Tel +61 2 9413 3777 Fax +61 2 9413 3822  
 www.minesubsidence.com



# AUSTAR COAL MINE

## STAGE 3 LONGWALLS A7 TO A19 DEPTH OF COVER

|                      |                   |                           |             |
|----------------------|-------------------|---------------------------|-------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:30000 | DRAWING No:<br>MSEC484-05 | Rev No<br>A |
|----------------------|-------------------|---------------------------|-------------|



Grid to MGA co-ordinates

DEPTH OF COVER CONTOURS ARE IN METRES

Level 1, 228 Victoria Ave, Chatswood NSW 2067  
 PO Box 3047, Willoughby North NSW 2068  
 Tel +61 2 9413 3777 Fax +61 2 9413 3822  
 www.minesubsidence.com



# AUSTAR COAL MINE

## STAGE 3 LONGWALLS A7 TO A19

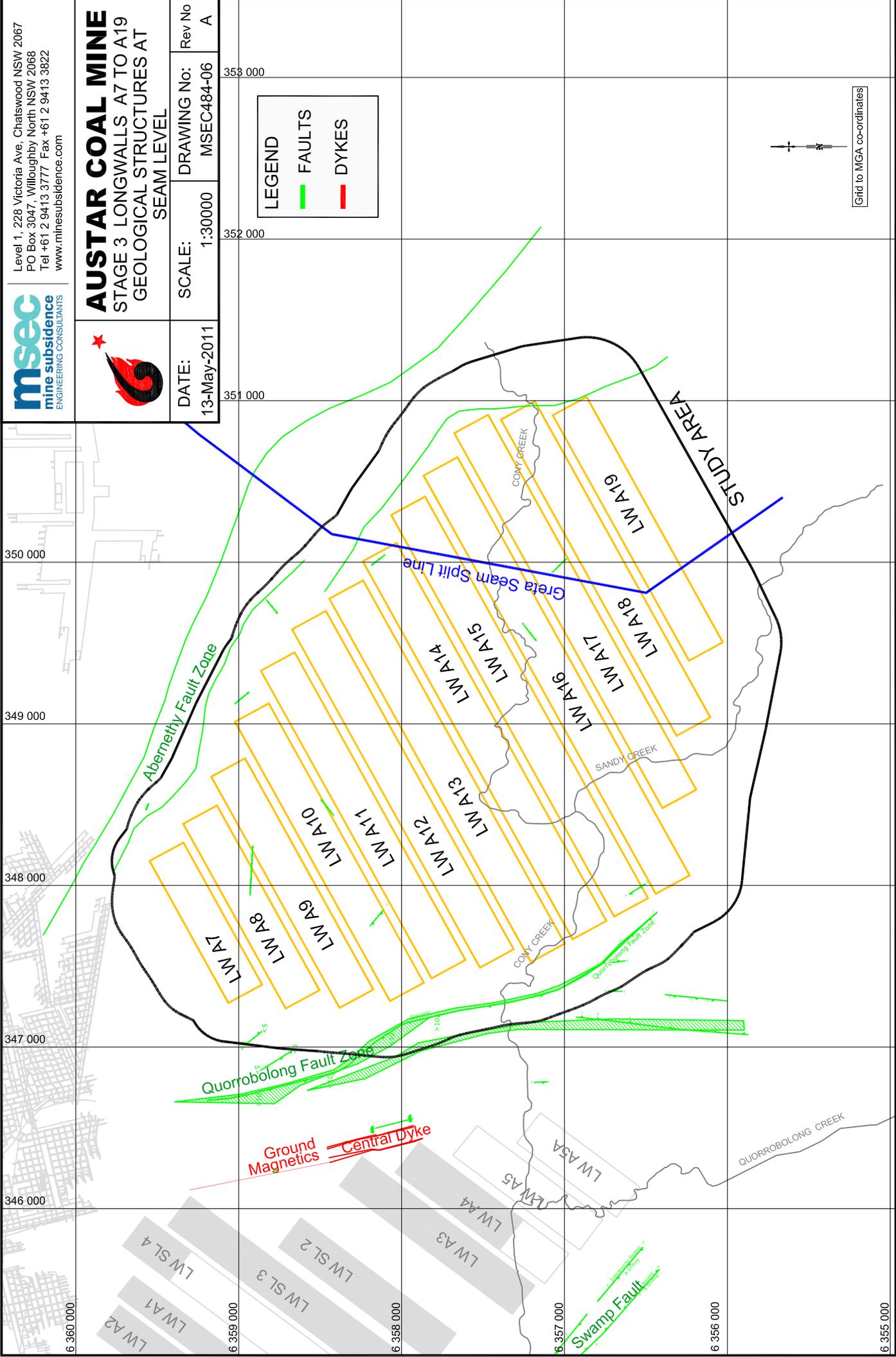
### GEOLOGICAL STRUCTURES AT SEAM LEVEL



|                      |                   |                           |             |
|----------------------|-------------------|---------------------------|-------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:30000 | DRAWING No:<br>MSEC484-06 | Rev No<br>A |
|----------------------|-------------------|---------------------------|-------------|

**LEGEND**

- FAULTS
- DYKES



Level 1, 228 Victoria Ave, Chatswood NSW 2067  
PO Box 3047, Willoughby North NSW 2068  
Tel +61 2 9413 3777 Fax +61 2 9413 3822  
www.minesubsidence.com



# AUSTAR COAL MINE

## STAGE 3 LONGWALLS A7 TO A19 NATURAL FEATURES

DATE:  
13-May-2011

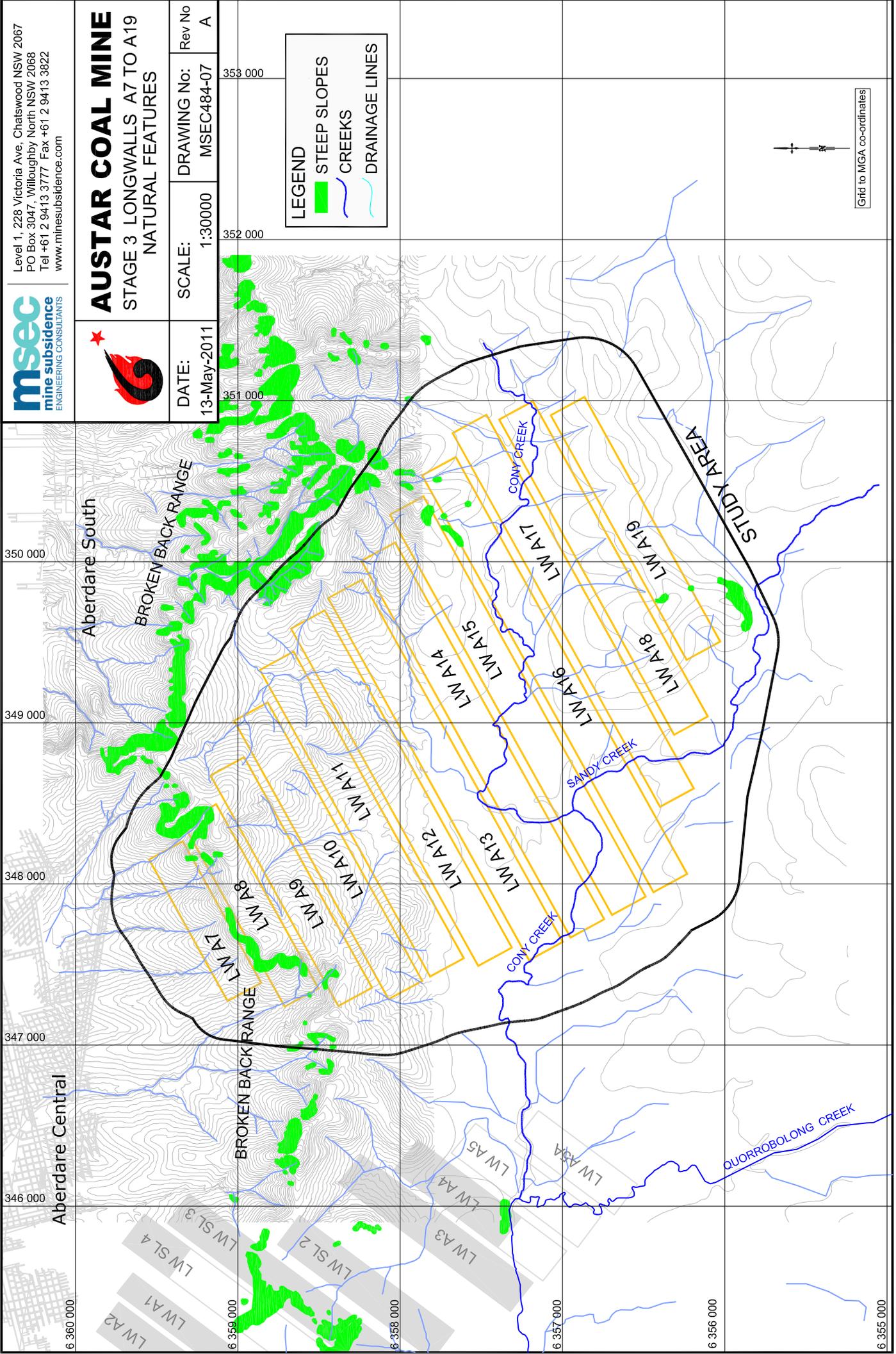
SCALE:  
1:30000

DRAWING No:  
MSEC484-07

Rev No  
A

**LEGEND**

- STEEP SLOPES
- CREEKS
- DRAINAGE LINES



Grid to MGA co-ordinates



Level 1, 228 Victoria Ave, Chatswood NSW 2067  
 PO Box 3047, Willoughby North NSW 2068  
 Tel +61 2 9413 3777 Fax +61 2 9413 3822  
 www.minesubsidence.com



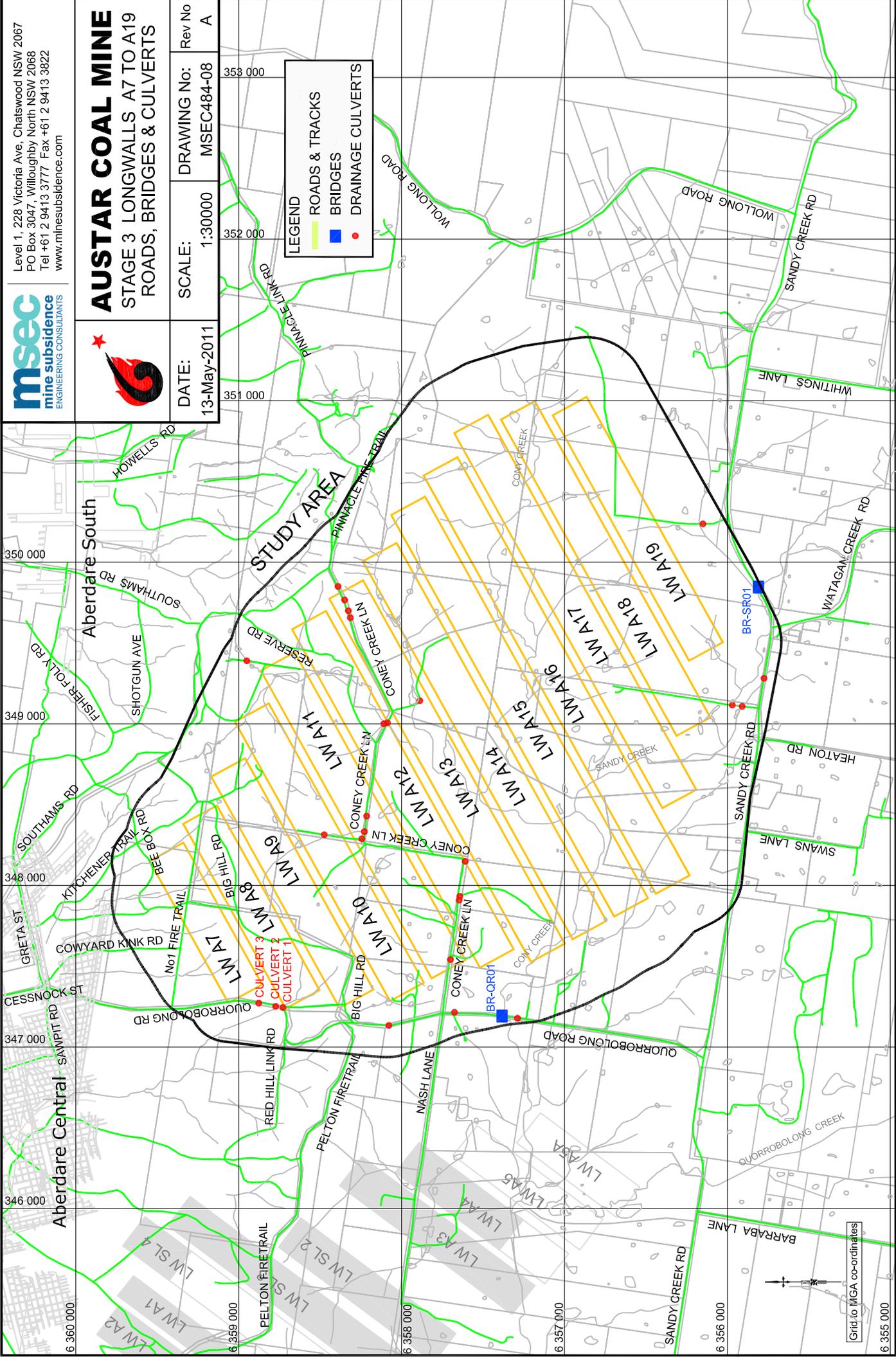
# AUSTAR COAL MINE

## STAGE 3 LONGWALLS A7 TO A19 ROADS, BRIDGES & CULVERTS

|                      |                   |                           |             |
|----------------------|-------------------|---------------------------|-------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:30000 | DRAWING No:<br>MSEC484-08 | Rev No<br>A |
|----------------------|-------------------|---------------------------|-------------|

**LEGEND**

- ROADS & TRACKS
- BRIDGES
- DRAINAGE CULVERTS



Level 1, 228 Victoria Ave, Chatswood NSW 2067  
PO Box 3047, Willoughby North NSW 2068  
Tel +61 2 9413 3777 Fax +61 2 9413 3822  
www.minesubsidence.com



# AUSTAR COAL MINE

## STAGE 3 LONGWALLS A7 TO A19 ELECTRICAL SERVICES

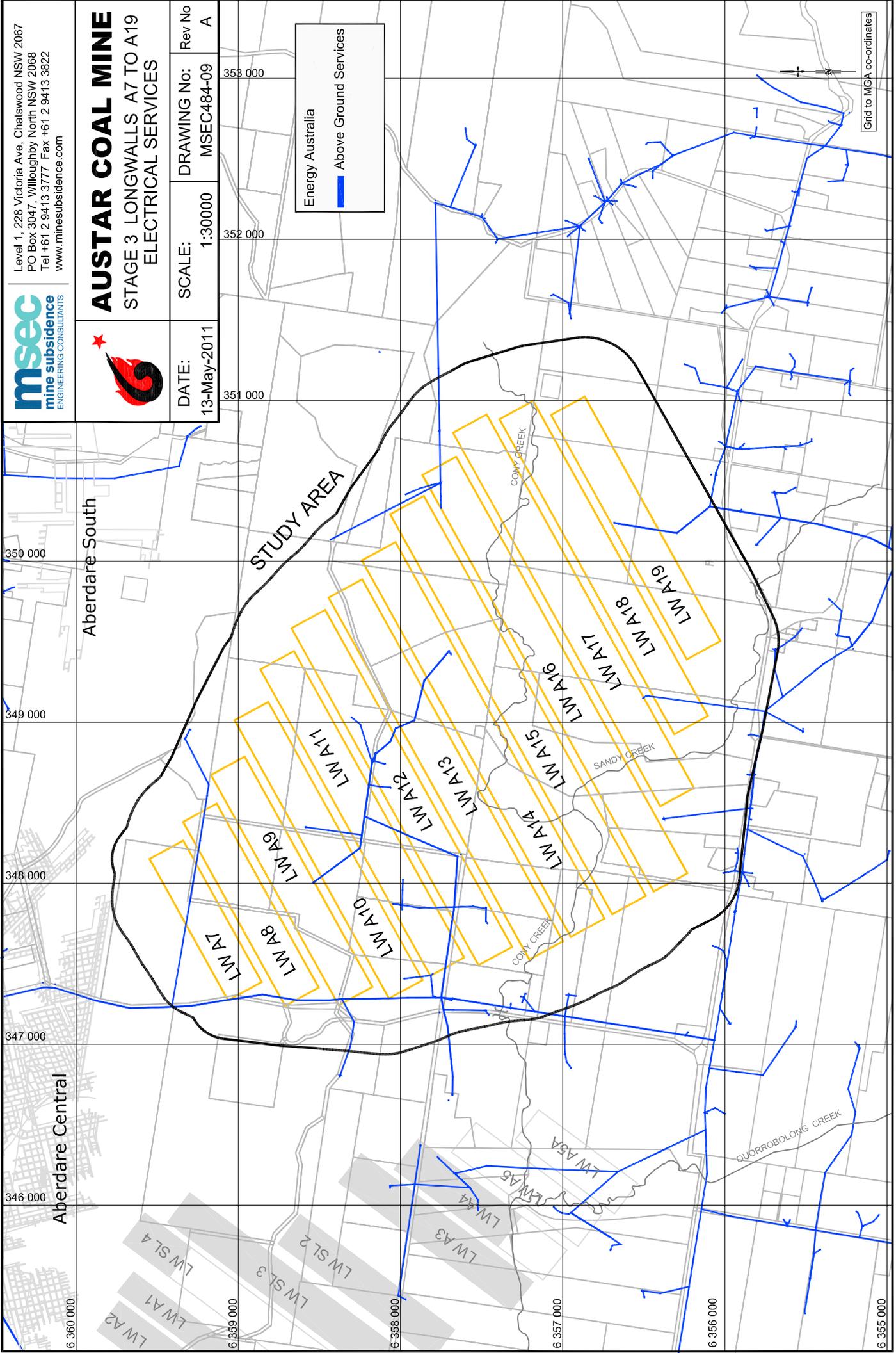
DATE:  
13-May-2011

SCALE:  
1:30000

DRAWING No:  
MSEC484-09

Rev No  
A

Energy Australia  
Above Ground Services



Grid to MGA co-ordinates



Level 1, 228 Victoria Ave, Chatswood NSW 2067  
 PO Box 3047, Willoughby North NSW 2068  
 Tel +61 2 9413 3777 Fax +61 2 9413 3822  
 www.minesubsidence.com



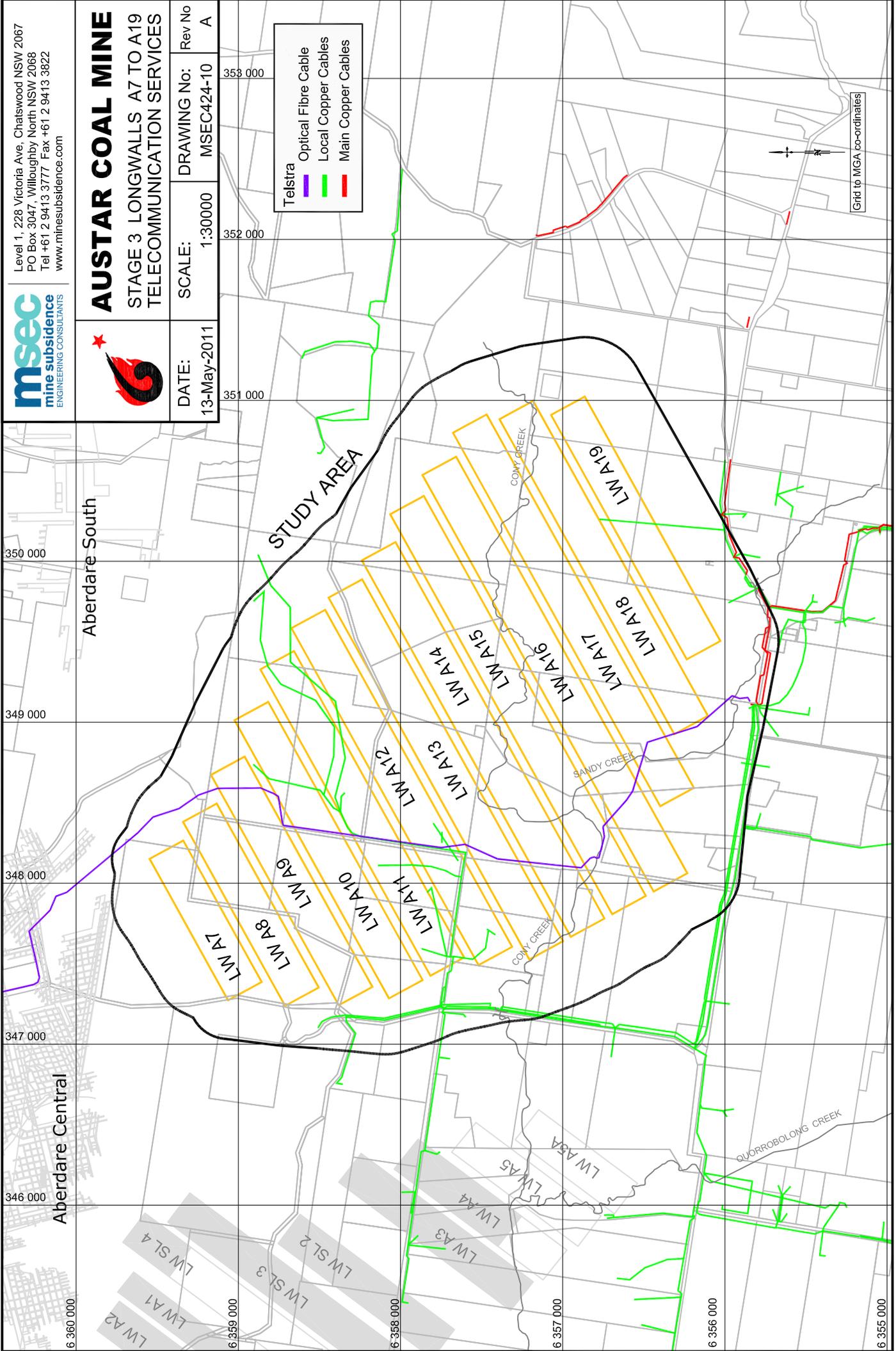
# AUSTAR COAL MINE

## STAGE 3 LONGWALLS A7 TO A19 TELECOMMUNICATION SERVICES

|                      |                   |                           |             |
|----------------------|-------------------|---------------------------|-------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:30000 | DRAWING No:<br>MSEC424-10 | Rev No<br>A |
|----------------------|-------------------|---------------------------|-------------|

Telstra

- Optical Fibre Cable
- Local Copper Cables
- Main Copper Cables



**msec**  
mine subsidence  
ENGINEERING CONSULTANTS

Level 1, 228 Victoria Ave, Chatswood NSW 2067  
PO Box 3047, Willoughby North NSW 2068  
Tel +61 2 9413 3777 Fax +61 2 9413 3822  
www.minesubsidence.com



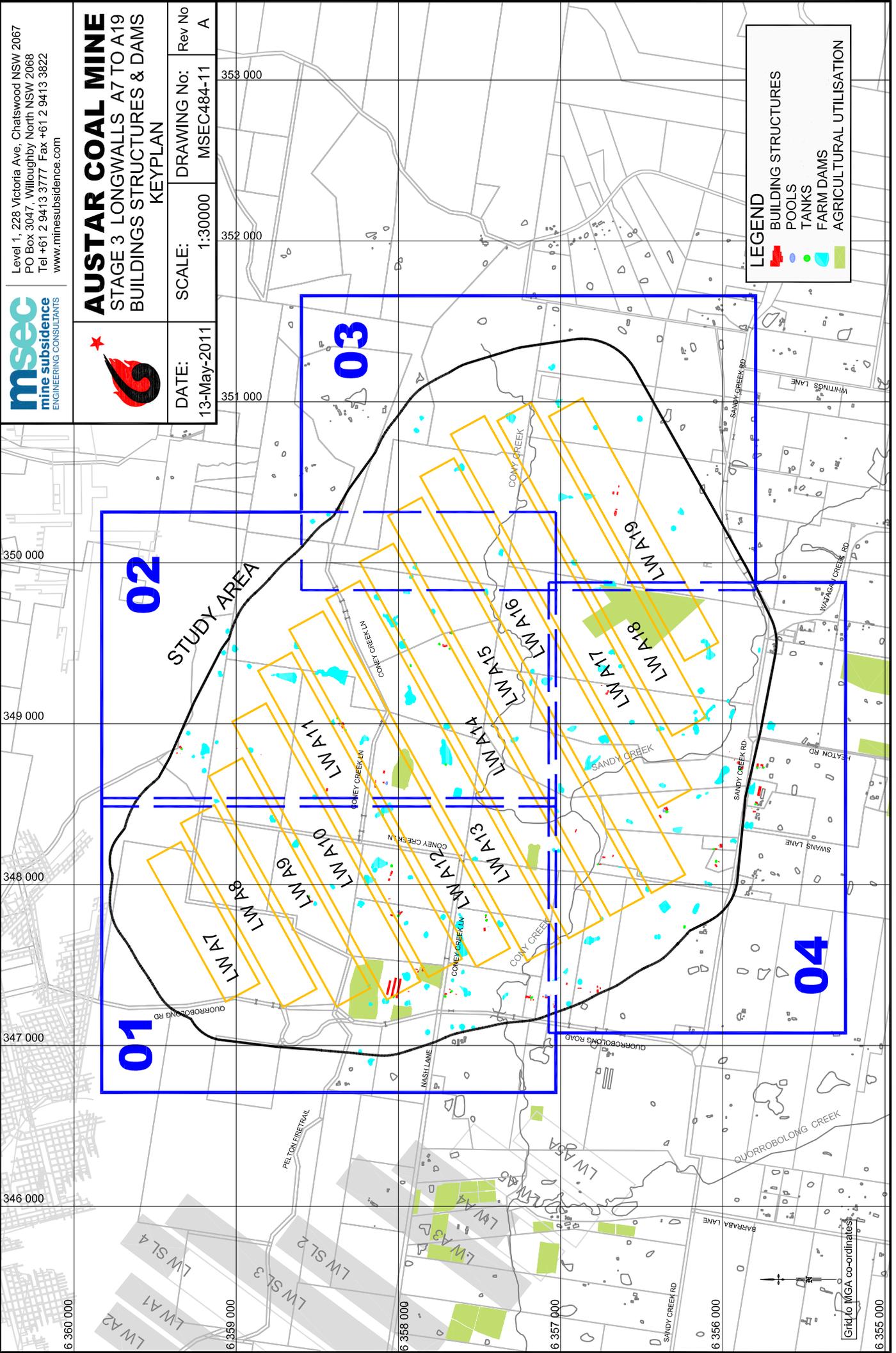
**AUSTAR COAL MINE**  
STAGE 3 LONGWALLS A7 TO A19  
BUILDINGS STRUCTURES & DAMS  
KEYPLAN

DATE:  
13-May-2011

SCALE:  
1:30000

DRAWING No:  
MSEC484-11

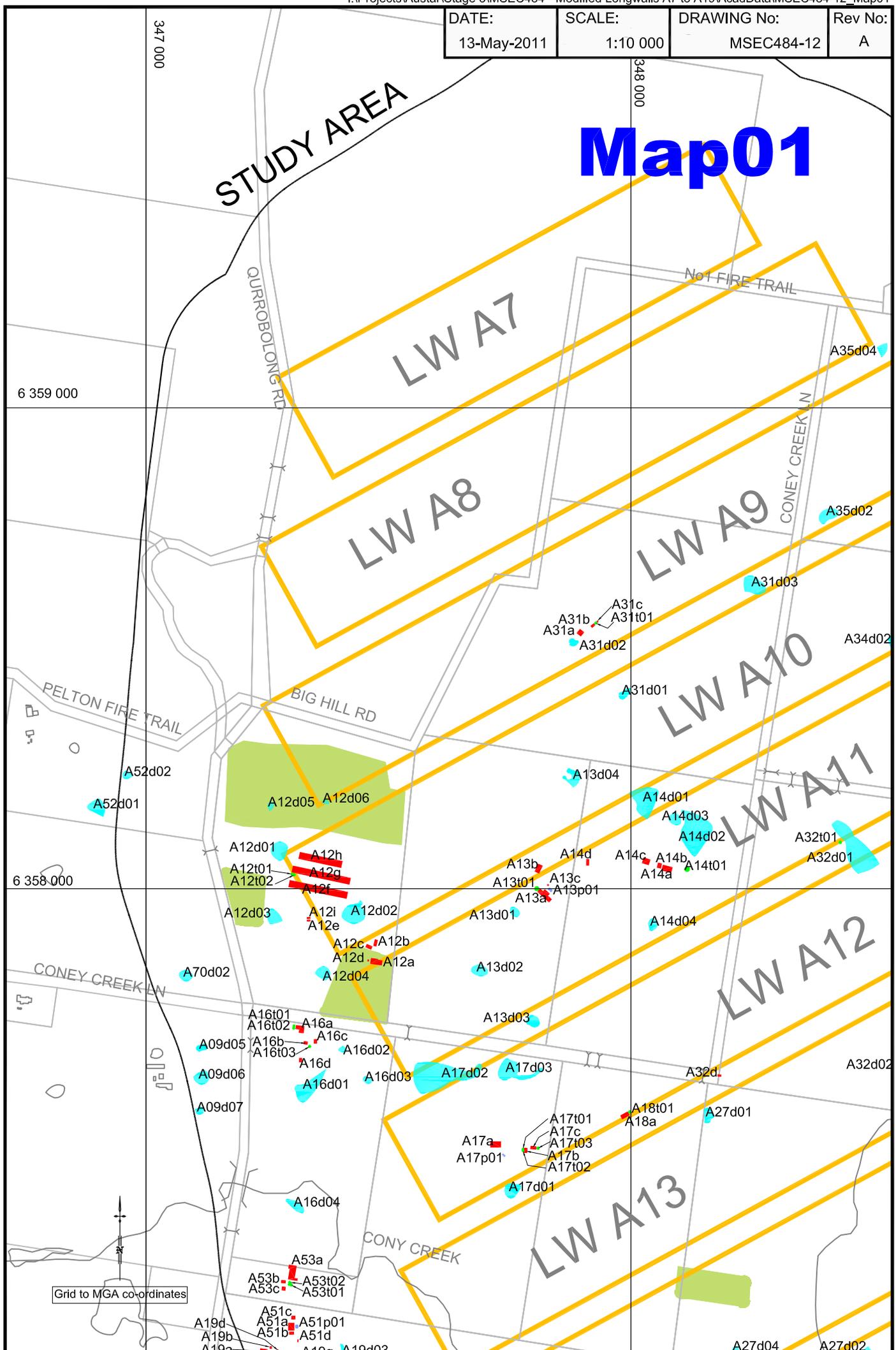
Rev No  
A



|                      |                    |                           |              |
|----------------------|--------------------|---------------------------|--------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:10 000 | DRAWING No:<br>MSEC484-12 | Rev No:<br>A |
|----------------------|--------------------|---------------------------|--------------|

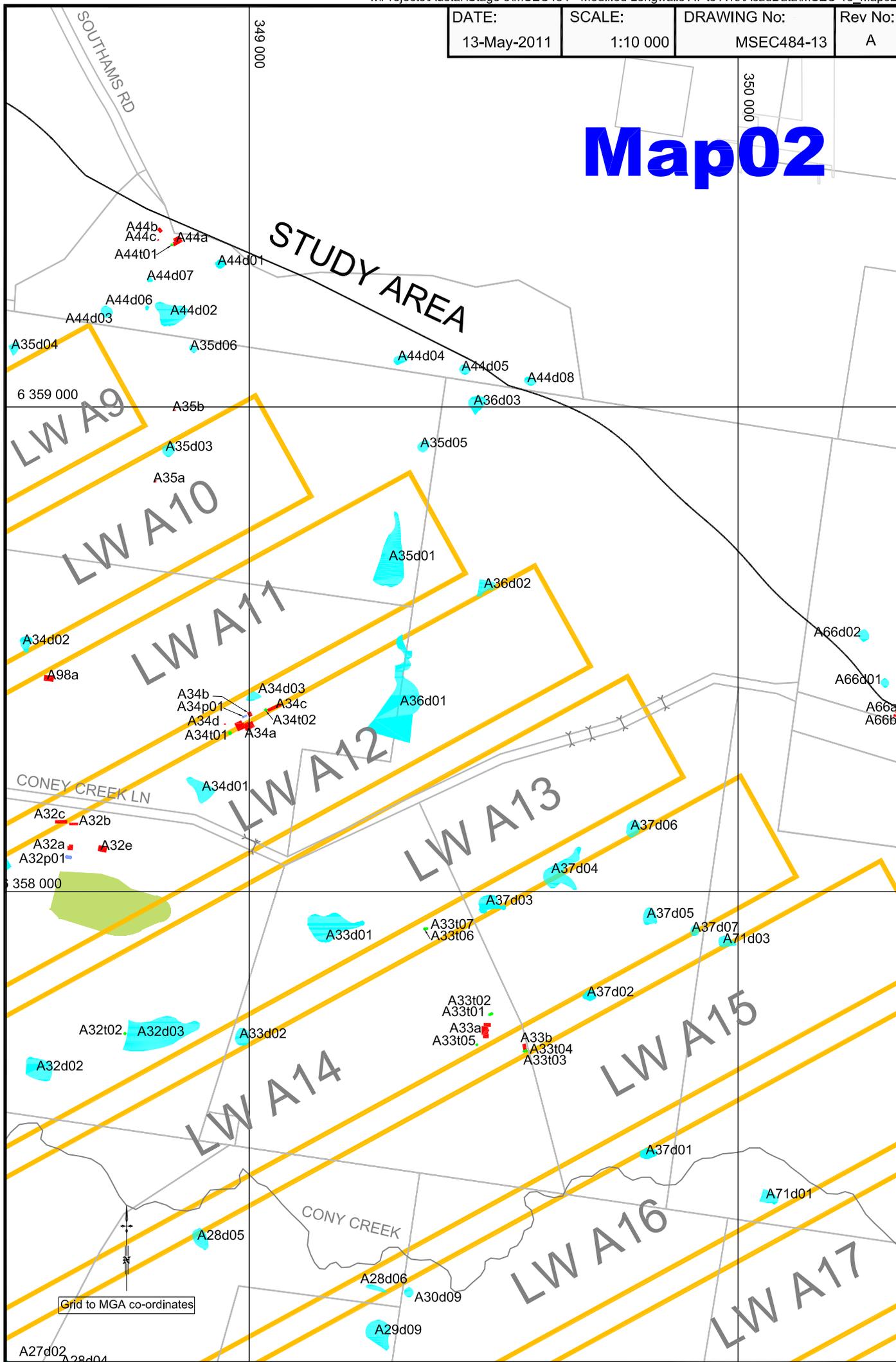
STUDY AREA

# Map01



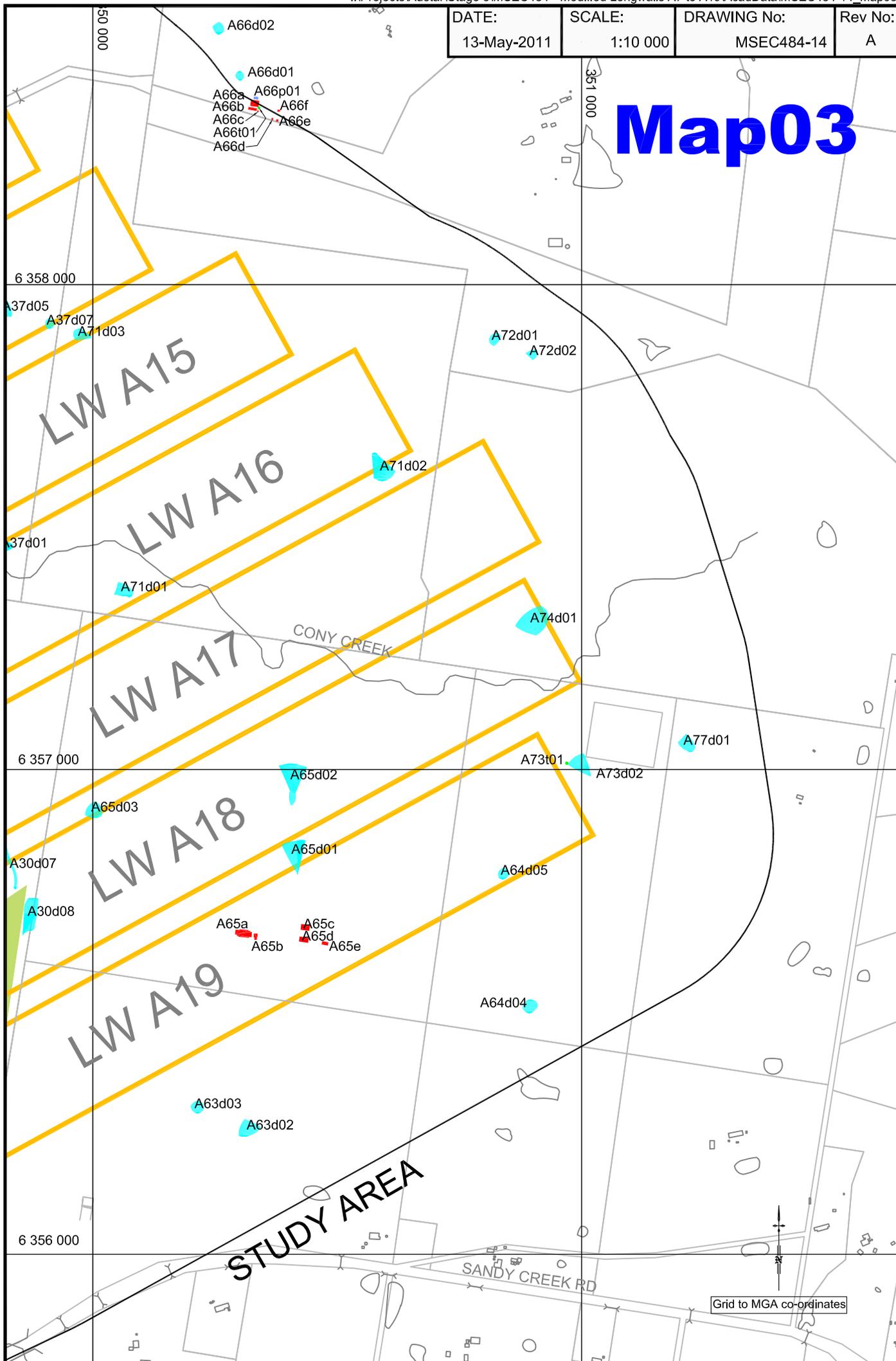
|                      |                    |                           |              |
|----------------------|--------------------|---------------------------|--------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:10 000 | DRAWING No:<br>MSEC484-13 | Rev No:<br>A |
|----------------------|--------------------|---------------------------|--------------|

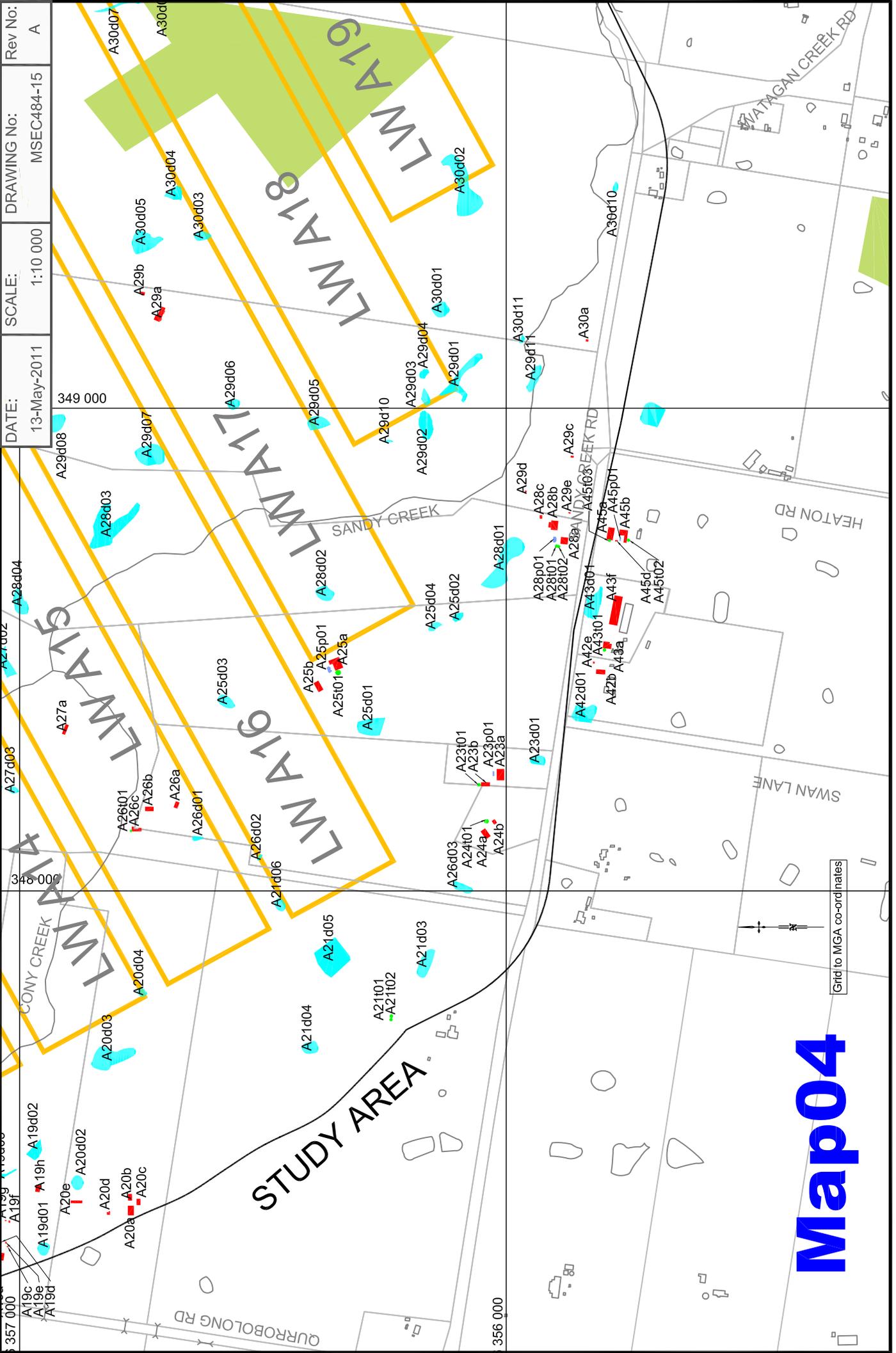
# Map02



|                      |                    |                           |              |
|----------------------|--------------------|---------------------------|--------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:10 000 | DRAWING No:<br>MSEC484-14 | Rev No:<br>A |
|----------------------|--------------------|---------------------------|--------------|

# Map03





# Map04



Level 1, 228 Victoria Ave, Chatswood NSW 2067  
 PO Box 3047, Willoughby North NSW 2068  
 Tel +61 2 9413 3777 Fax +61 2 9413 3822  
 www.minesubsidence.com



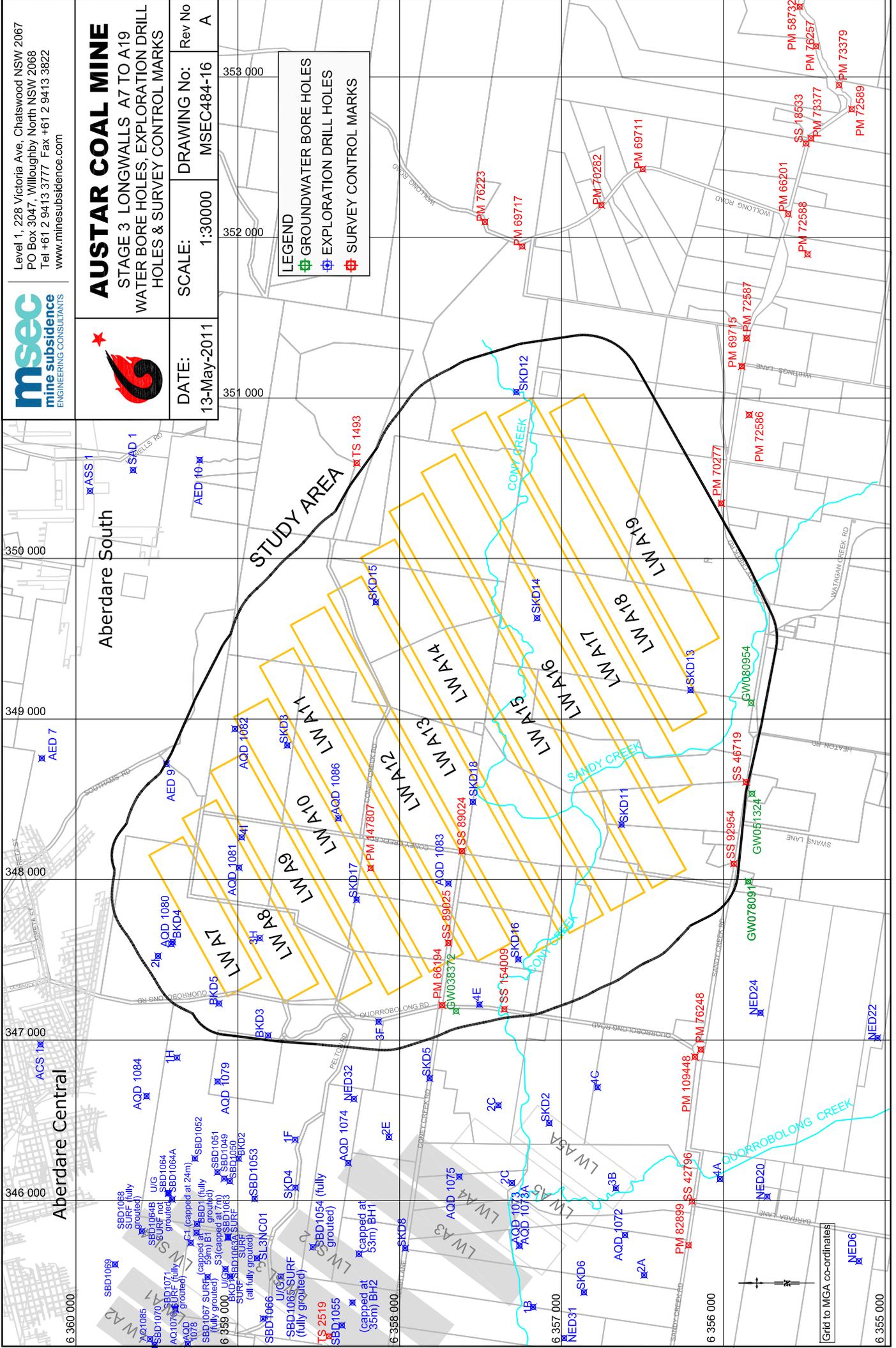
# AUSTAR COAL MINE

STAGE 3 LONGWALLS A7 TO A19  
 WATER BORE HOLES, EXPLORATION DRILL  
 HOLES & SURVEY CONTROL MARKS

|                      |                   |                           |             |
|----------------------|-------------------|---------------------------|-------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:30000 | DRAWING No:<br>MSEC484-16 | Rev No<br>A |
|----------------------|-------------------|---------------------------|-------------|

**LEGEND**

- GROUNDWATER BORE HOLES
- EXPLORATION DRILL HOLES
- SURVEY CONTROL MARKS



Grid to MGA co-ordinates



Level 1, 228 Victoria Ave, Chatswood NSW 2067  
 PO Box 3047, Willoughby North NSW 2068  
 Tel +61 2 9413 3777 Fax +61 2 9413 3822  
 www.minesubsidence.com



# AUSTAR COAL MINE

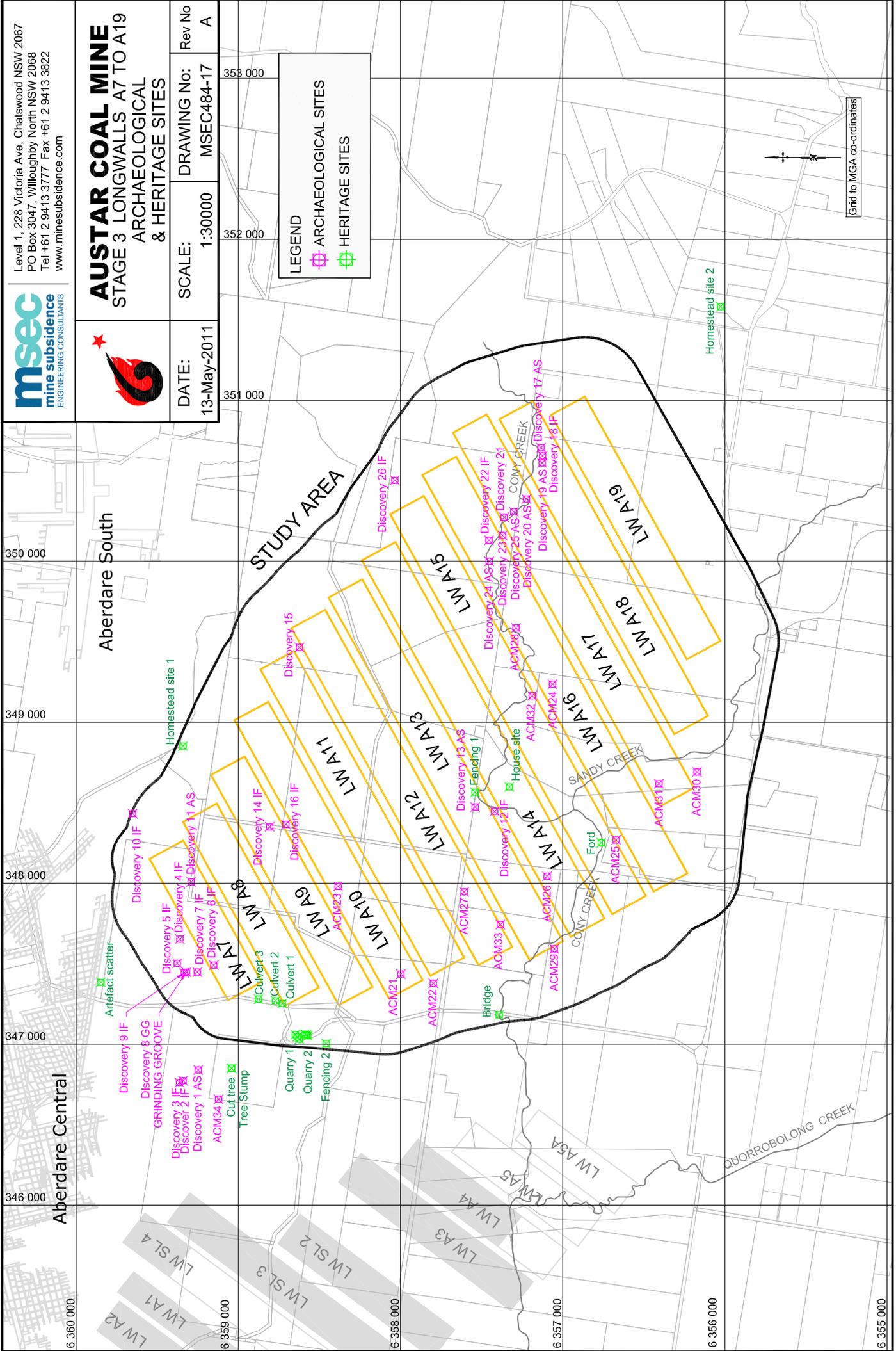
## STAGE 3 LONGWALLS A7 TO A19

### ARCHAEOLOGICAL & HERITAGE SITES

|                      |                   |                           |             |
|----------------------|-------------------|---------------------------|-------------|
| DATE:<br>13-May-2011 | SCALE:<br>1:30000 | DRAWING No:<br>MSEC484-17 | Rev No<br>A |
|----------------------|-------------------|---------------------------|-------------|

**LEGEND**

- ✘ ARCHAEOLOGICAL SITES
- ✘ HERITAGE SITES





Level 1, 228 Victoria Ave, Chatswood NSW 2067  
PO Box 3047, Willoughby North NSW 2068  
Tel +61 2 9413 3777 Fax +61 2 9413 3822  
www.minesubsidence.com



# AUSTAR COAL MINE

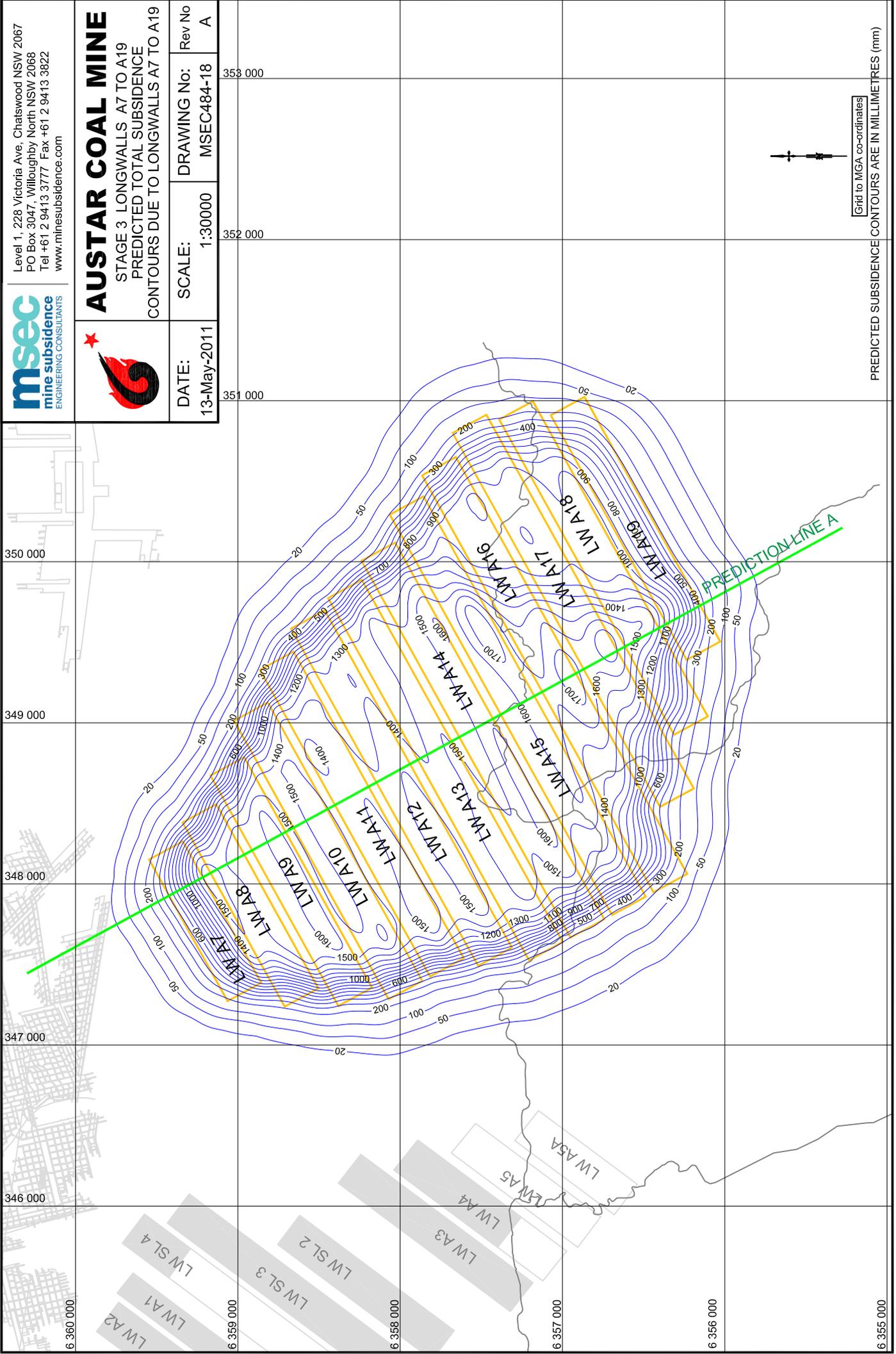
STAGE 3 LONGWALLS A7 TO A19  
PREDICTED TOTAL SUBSIDENCE  
CONTOURS DUE TO LONGWALLS A7 TO A19

DATE:  
13-May-2011

SCALE:  
1:30000

DRAWING No:  
MSEC484-18

Rev No  
A



Grid to MGA co-ordinates

PREDICTED SUBSIDENCE CONTOURS ARE IN MILLIMETRES (mm)