

# Application of Survey and Drafting Directions 2007

**Karen Inglis and Jon Smith**

Mine Mapping-Titles Branch

DPI-Minerals



# Coal Mine Health and Safety Regulation 2006

## Division 6 Surveys and Certified Plans

### 139 Mine Record tracings to be sent to Director-General

The operator of a coal operation must ensure that a copy of the mine workings plan (*a mine record tracing*) is sent to the Director-General when the plan is first prepared and whenever it is updated (which must be in accordance with the survey and drafting directions).

The Reporting Period shall be:-

- For the supply of the Mine Workings Spatial Information to the Director-General as a Digital file is three (3) monthly.
- For the supply of the Mine Workings Record Tracing Plan in hardcopy to the Director-General – six (6) monthly.
- The Mine Record Tracing shall be supplied to the Director-General for each Reporting Period (within 1 month of the end of each Reporting Period).

# Survey and Drafting Directions

The Directions are to be followed by all mining surveyors in all **open cut** and **underground** mines.

The Survey and Drafting Directions were first issued in September 1976 changes were made and the directions re issued in March 2000 and most recently May 2007.

# Minimum themes for Underground

**The following themes are the minimum themes to be supplied for Underground Mines**

- Coal Operation Boundary
- Date Lines
- First Workings
- Second Workings
- Mining Lease Boundaries
- Mine Workings Outline
- Underground Auger Areas
- Mine Underground Access
- Working Section Floor Contours

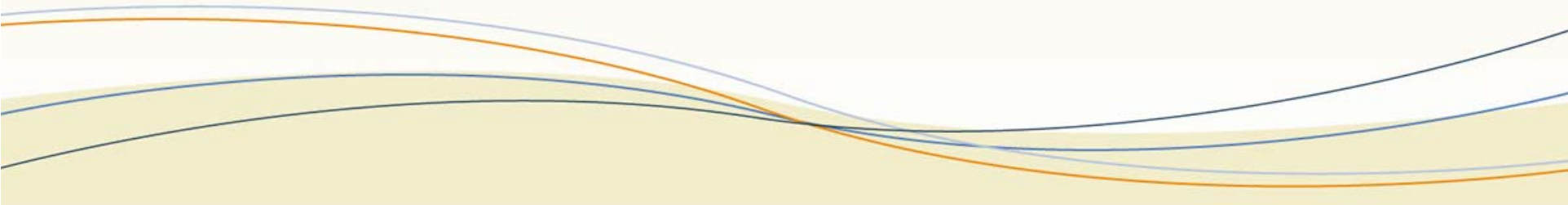
# Minimum Themes for Open Cut

**The following themes are the minimum themes to be supplied for Open Cut Mines.**

- Coal Operation Boundary
- Highwall/Auger Mining
- Mining Lease Boundaries
- Mine Workings Outline
- Void Contours
- Void Detail (polyline and polygon)

## When will your Mine Record Tracing not be accepted by the department?

### **Hardcopy**

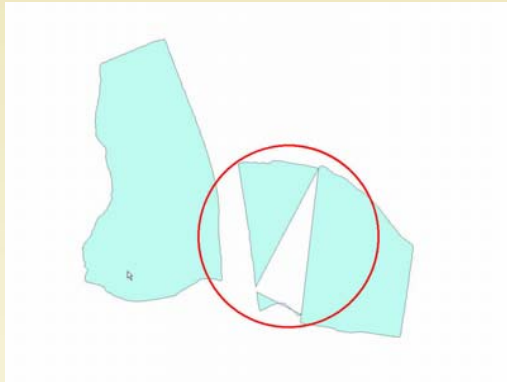
- When your hardcopy plans do not have a Vertical Datum-AHD.
  - When your sheet index is not acceptable by the DPI.
  - When the new templates have not been utilised showing the additions to the schedules.
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## When will your Mine Record Tracing not be accepted by the department?

### **Digital**

- When your digital data does not have a Vertical Datum-AHD.
- When your Metadata Statements are not included on the CD-R.
- In conjunction with your hardcopy the pdf files are not included on the CD-R.
- When themes have not been supplied or themes are incomplete with attributes missing.
- When there are errors loading the data.

# Examples of errors



Area – polygon (not acceptable)

FID	Shape	SEAM_NAME	WORKED	CHARTED	WORK	STATUS	ENDORSEMENT
862	Polyline	lthgow	30/06/04	01/07/04	1st	WV	
863	Polyline	lthgow	30/09/04	01/10/04	1st	WV	
864	Polyline	lthgow	30/09/04	01/10/04	1st	WV	
865	Polyline	lthgow	30/06/04	01/07/04	1st	WV	
866	Polyline	lthgow	30/06/03	01/07/03	1st	WV	
867	Polyline	lthgow	31/12/03	01/01/04	1st	WV	
868	Polyline	lthgow	30/06/03	01/07/03	1st	WV	
869	Polyline						
870	Polyline						
871	Polyline						
872	Polyline						
873	Polyline						
874	Polyline						
875	Polyline						
876	Polyline						
877	Polyline						
878	Polyline						
879	Polyline						
880	Polyline						
881	Polyline						

Attributes missing (not acceptable)

Name	Size	Type	Date Modified	Keywor
<b>Files Currently on the CD</b>				
ihoe-RT34A.dwg	12,738 KB	AutoCAD LT Drawing	22/08/2006 11:03 AM	

Dwg or dxf files sent instead of shapefiles



CD must be able to be read

ArcGIS Explorer – Free Download  
<http://www.esri.com/software/arcgis/explorer>



# Frequently Asked Questions

## Coal Operation Boundary

The Coal Operation Boundary is the boundary nominated by the colliery holder in accordance with clause 7(1)(b) of the regulation.

7(1)(b) a description of the area covered by the coal operation.

The Coal Operation Boundary is not necessarily the Colliery Holding Boundary

## Portable Document Format

Whenever hardcopy plans are submitted to the Director-General they shall be backed-up in PDF (Portable Document Format) on CD-R.

These pdf documents **must** be on the same CD-R as the Mine Workings Spatial Information

## Metadata Statements

The Category Vertical Datum was omitted from the listing.

Category = Vertical Datum

Element = AHD

Definition = Australian Height Datum

# Example of Metadata Statement

Mine Workings Spatial Information		BLOOMFIELD COLLIERY - RT391	Reporting Period June 2007
<b>BLOOMFIELD COLLIERY - DRT391</b>			
<b>METADATA STATEMENT</b>			
<b>Dataset: MINE WORKINGS DIGITAL THEMES (all themes inclusive)</b>			
Category	Element	Definition	
Theme	All supplied Themes	Refer Annexure "B" attached File Names list.	
Features	Feature Type	Refer Annexure "E" for Feature Types	
Department Reference	MWP Catalogue Number	RT391	
Custodian	Mine Operator	Bloomfield Collieries Pty Ltd	
	Mine Name and Address	Bloomfield Colliery, PO Box 4 East Maitland, NSW 2323	
Description	Abstract	The themes identified in this statement are the MWDT required by the Directions.	
Data Currency	Date of First Version	Refer Annexure "D" attached Theme Status.	
	Date of this Version	Refer Annexure "D" attached Theme Status.	
Theme Status	Progress	Refer Annexure "D" attached Theme Status.	
	Maintenance and update frequency	Refer Annexure "D" attached Theme Status.	
Access	Stored data format	Mincom Minescape	
	Available format type	ESRI Shapefile	
	Access constraints	Only to be used in accordance with the provisions of the Directions.	
Data Quality	Lineage	Refer Annexure "D" attached Theme Status.	
		Refer Annexure "D" attached Theme Status.	
	Accuracy Statement	Where theme accuracy is expressed in "Accuracy Attribute" terms it should be accepted that generally most of the features in the theme would attain this accuracy. It should not be assumed that all features in the theme are to this accuracy and the individual features attributes should be referenced to determine actual accuracy.	
	Accuracy Attribute	The positional accuracy for a particular feature in the theme is ranked as follows: 1: Error ellipse no greater than 100mm 2: 100mm - 500mm 3: 500mm - 2m	

File name: bloomfield\_rt391\_june2007.pdf

Metatdata Statement

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Aims Website  
[www.minesurveyors.com.au](http://www.minesurveyors.com.au)

## Caution Statement

In some instances the Caution Statement will not fit in the required field. This statement is compulsory and must be entered in the form described in the options list.

If the Caution Statement does not fit it is suggested the whole statement be included in the Metadata Statement under the **Access** category and the **Access Constraints** element.

## Mine Record Tracing Numbers (MRT)

Mine Record Tracing Numbers are allocated by the Department. They are **not** Chartor determined.

Please call the Mine Mapping Section, Titles Branch of the Department of Primary Industries for allocation of new record tracings numbers and any other queries you may have pertaining to the Mine Record Tracing Number.