

ANZLIC Core Metadata Elements

Category	Element	Comments
Dataset	Title	Near surface resistive zone
	Custodian	Geoscience Australia
	Jurisdiction	Australia
Description	Abstract	<p>This product aims to determine the areas where perched fresh water lenses can be found in the unsaturated zone. Conditions conducive for the formation of perched water lenses include: sandy materials at the surface allowing infiltration, moderate to low permeability in the subsurface (eg. silty fine sand or partly cemented sand), and a potential water source (irrigation or flooding). Three datasets are used to derive the Near Surface Freshwater Distribution map, which are the surface recharge data, average apparent conductivity between surface and water table, and irrigation zones.</p> <p>For the “Near Surface Freshwater Distribution” map, areas of high surface recharge (> 5mm / yr) are selected (stippled), resistive areas to moderate conductive (< 150 mS/m) are highlighted, and the irrigations zones are overlain. Areas having the highest potential for perched water lenses are where all three highlighted data intersect, i.e. high surface recharge, low to moderately resistive and under irrigation</p>
	Search Word(s)	Murray Basin, AEM, conductivity
Geographic Extent	Geographic Extent Name(s)	River Murray Corridor [from the SA border to Gunbower]
		<p><i>Left:</i> 496400.00 <i>Right:</i> 816659.96</p> <p><i>Top:</i> 6246400.00 <i>Bottom:</i> 6010458.19</p>
Geographic Extent Polygon(s)		
Data Currency	Beginning date	June 2007
	Ending date	June 2008
Dataset Status	Progress	Complete
	Maintenance	As required

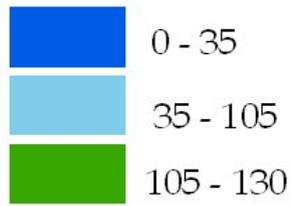
	and Update Frequency	
Access	Stored Data Format	DIGITAL – ERMapper bil file
	Available Format Type	DIGITAL - ERMapper bil file
	Access Constraint	Any restrictions or legal prerequisites applying to the use of the dataset, eg. licence.
Data Quality	Lineage	The ‘Average Apparent Conductivity between Surface and Water Table’ AEM slice was classified into 3 classes and saved as an ERMapper bil file
	Positional Accuracy	+ / - 80m
	Attribute Accuracy	The allowable error in attribute accuracy ranges from 0.5% to 5%, at a 99% confidence level
	Logical Consistency	Data have been checked visually on plots and for consistency using in-house routines and Arc/Info GIS software. As much as possible, every effort has been made to ensure that the accuracy and standards have been maintained.
	Completeness	All instances of a feature and its attribute values that appear on the source material are captured. As much as possible, every effort has been made to ensure that the accuracy and standards have been maintained.
Contact Information	Contact Organisation	Geoscience Australia
	Contact Position	Geoscience Australia
	Mail Address 1	GPO Box 378
	Mail Address 2	As above
	Suburb or Place or Locality 1	Canberra
	State or Locality 2	ACT
	Country	Australia
	Postcode	2601
	Telephone	02 6249 9135
	Facsimile	02 6249 9984
	Electronic Mail Address	Electronic Mail Address of the Contact Position.
Metadata Date	Metadata Date	June 2008
Additional Metadata	Additional Metadata	Reference to other directories or systems containing further information about the dataset.

Additional Metadata Elements for Data Transfer Purposes

Category	Element	Comments
Projection	Horizontal Coordinate System	Universal Transverse Mercator
	Horizontal Coordinate Parameters	MGA Zone 54
	Geodetic Model	GDA 94
	Vertical Coordinate System	AHD
		<i>Bounding coordinates</i>
		<i>Horizontal</i>
		<i>In projected or local coordinates</i>
		<i>Left: 739428.550000</i>
		<i>Right: 816788.550000</i>
		<i>Top: 6082493.000000</i>
		<i>Bottom: 6010693.000000</i>
		<i>Spatial data description</i>
		<i>Raster dataset information</i>
		<i>Raster format: BIL</i>
		<i>SDTS raster type: Pixel</i>
		<i>Number of raster bands: 3</i>
		<i>Raster properties</i>
Raster	Raster Type	<i>Origin location: Upper Left</i>
		<i>Has pyramids: FALSE</i>
		<i>Has colormap: FALSE</i>
		<i>Data compression type: None</i>
		<i>Display type: pixel codes</i>
		<i>Cell information</i>
		<i>Number of cells on x-axis: 1934</i>
		<i>Number of cells on y-axis: 1795</i>
		<i>Number of cells on z-axis: 1</i>
		<i>Number of bits per cell: 8</i>
		<i>Cell Size</i>
		<i>X distance: 40.000000</i>
		<i>Y distance: 40.000000</i>
Entity and Attributes	Entity Description	Name and description of entities

**Average conductivity
(mS/m)**

Attribute Details



The highest potential for perched water is beneath areas on high recharge zones within low conductivity classes