Dataset

ANZLIC Identifier

ANZLIC to assign - ???SEQ_LU_SLP_000001

TITLE

South East Queensland Waterways - Slope and (Existing and Future) Land Use

Custodian

Bruce Harris, 371 Nursery Road, Holland Park, Brisbane, Queensland, Australia, 4121.

Jurisdiction

Australia

Description

Abstract

These data are a spatial representation of South East Queensland Waterways within Slope and Land Use areas. The Waterway Slope data was derived mainly from a Digital Elevation Model of South East Queensland created by Bruce Harris of WBM Oceanics in 2004. The existing Waterway Land Use data is derived from Land Use data supplied to Bruce Harris from SEQ Catchments, the future Waterway Land Use data was created from the SEQ Catchments data with additional land uses data from BMT WBM and the Office of Urban Management stamped on it.

Search Word

SEQ Land Use
South East Queensland Land Use
SEQ Slope
South East Queensland Slope

Geographic Extent Name

GEN Category
Australia
Queensland
1:100,000 Map Series
9545 Laguna Bay
9445 Gympie
9544 Caloundra
9444 Nambour
9344 Nanango
9244 Kingaroy
9543 Brisbane
9443 Caboolture
9343 Esk
9243 Oakey
9542 Beenleigh
9442 Ipswich
9342 Heildon
9242 Toowoomba
9641 Tweed Heads
9541 Murwillumbah
9441 Mount Lindsay
9341 Warwick
GEN Custodial Jurisdiction
Australia
GEN Name
Queensland

Geographic Extent Polygon

GDA 94, Lat Long
151.647375, -26.914291
153.07554, -25.997869
153.552015, -28.164443
152.754662, -28.367249
151.647375, -26.914291

Geographic Bounding Box

North Bounding Latitude
-25.997869

South Bounding Latitude
-28.367249
East Bounding Latitude
153.552015
West Bounding Latitude
151.647375

Beginning date
01 April 2008

Ending date
30 July 2008

Progress
V1 Complete

Maintenance and Update Frequency
The slope and land use data are a one off and there are no plans (as of 27/08/08) to update the data.

Stored Data Format
MapInfo format by Bruce Harris

Available Format Type
MapInfo tables and ArcGIS (shape files). Available Projection MGA94, Zone 56

Access Constraint
The Slope data set is an extract from a DEM created for the South East Queensland Healthy Waterways Partnership. Use of this data set may be approved with the written permission of Bruce Harris and the Moreton Bay Waterways and Catchments Partnership, Level 4, 239 George Street, Brisbane, Queensland, Australia. Bruce Harris and the Moreton Bay Waterways and Catchments Partnership are the owner of the Intellectual Property Rights in and to the information supplied. Except for purposes permitted by the Copyright Act.

The Future Land Use data set is an extract from data created for SEQ Catchments with an overlay of data created for the Office of Urban Management. Use of this data set may be approved with the written permission of Bruce Harris, SEQ Catchments and the Office of Urban Management. Bruce Harris, SEQ Catchments and the Office of Urban Management are the owner of the Intellectual Property Rights in and to the information supplied. Except for purposes permitted by the Copyright Act.

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Lineage
To capture Waterway Slope data a Digital Elevation Model (DEM) of South East Queensland was required. Relevant Local and State Government agencies supplied applicable topographic data sets for the study area that allowed for the creation of the DEM (believed to be the best available covering all of SEQ at this time). After extensive edge matching (to ensure a seamless join between data sets) a DEM at a 20m grid resolution was created. Areas not covered by suitably detailed data (survey, photogrammetry etc) were filled with 5m contour data from DNRM. Stream location and their associated stream order were also derived from the DEM as well as drainage basins (catchments). To develop Slope, Bruce Harris processed the DEM to create a percentage slope grid and from that created polygon contours at the intervals described in the data. Waterways (stream ordered) were then split into Slope categories.

Existing Land Use is a representation of data supplied to SEQ Catchments. Waterways (stream ordered) were then split into existing Land Use categories using the existing Land Use data.

Future Land Use was created from the existing SEQ Catchments Land Use Existing Land Use data and Future Land Use Data supplied by BMT WBM and the Office of Urban Management which includes high density urban, future urban, future industrial and new rural residential data. These data sets have been overlayed on the existing

(SEQ Catchments) Land Use layer. High density urban, future urban, future industrial have been classed as non-vegetated, rural residential has been classed as grass. The high density urban, future urban and new rural residential data sets are based on population projections created as part of the SEQ regional plan. The future industrial data is less reliable, as it is a collection all potential future industrial land as proposed by the Department of State Development. This less accurate (broader scale) information accounts for the small loss of areas such as Impervious Road Surfaces and Waterbodies in the future Land Use information. Waterways (stream ordered) were then split into the revised Land Use categories. This data was created at a regional, or catchment scale, and should be used as such, it is not considered accurate at a local allotment level.

PROJECTION OF DATA: MGA94, Zone 56

Positional Accuracy

Positional accuracy is based on data supplied to Bruce Harris.

Attribute Accuracy

The attributes in the data are acquired from data supplied, and date created for Slope and future Land Use. The validation process for the attributes consisted of the visual inspection/comparison of hard copy output compared to existing Land Use data and aerial photography/satellite imagery. Accuracy of the Land Use data relies on the accuracy of data supplied to Bruce Harris. Accuracy of the slope data is reliant on the accuracy of the original DEM data.

Logical Consistency

The datasets can be considered as a seamless map of SEQ only.

Completeness

The data has been investigated for completeness by visual inspection of validation plots compared to aerial photography/satellite imagery and existing land use data.

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Metadata Date

August 2008

Additional Metadata