Transport and Topography

Data Product Description
September 2020

Geoscape

Standard

This document is based on the AS/NZS ISO 19131:2008 Geographic information – Data product specifications standard.

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Contents

1. Overview

1.1 Data product specification title

Transport and Topography Product Description

1.2 Reference date

September 2020

1.3 Responsible party

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1.4 Language

English

1.5 Topic category

Spatial data and metadata for road, rail, airport networks as well as waterways and green areas within Australia.

1.6 Distribution format

PDF

1.7 Glossary

Geoscape maintains a glossary of common terms with their definitions and also includes acronyms and abbreviations that are commonly used in relation to Geoscape products and services. The glossary is available at the Geoscape website at https://geoscape.com.au/documentation/glossary-and-terms/

1.8 Informal description of the data product

The Transport and Topography dataset is comprised of three themes:

- Transport
- Hydrology
- Greenspace

The Transport and Topography dataset is used as a basis for the G-NAF dataset provided by Geoscape Australia. The Transport and Topography dataset is an important dataset in its own right.

Geoscape Australia is currently working to improve the data maintenance processes which have significantly enhanced its accuracy from previous releases. This improvement in

processes will be continually reviewed to produce the highest standards possible in accuracy and quality control.

1.9 Copyright

Please see www.geoscape.com.au/legal/data-copyright-and-disclaimer/.

1.10 Privacy

Geoscape products and services should not contain any personal names or other personal information. Geoscape undertakes reasonable data cleansing steps as part of its production processes to ensure that is the case. If you think that personal information may have inadvertently been included in Geoscape products or services, please contact support@geoscape.com.au

2. Specification Scope

This dataset is divided into three themes.

2.1 Scope identification – dataset

Transport and Topography Dataset

Level
Dataset

Level name
Transport and Topography

Extent
Spatial coverage of Australia's landmass including External Territories and Coastal Islands (including Lord Howe Island). All data is supplied by the appropriate jurisdiction quarterly.

2.2 Scope identification – themes

Transport and Topography Themes

Level
Theme

Level names
- Transport
- Hydrology
- Greenspace

Extent
Spatial coverage of Australia's Transport Network, bodies of water (and islands) and 'green' spaces.
- Transport is a digital representation of all roads, airports and railways within Australia.
- Hydrology is a digital representation of oceans, lakes, rivers, islands and other bodies of water.
- Greenspace is a digital representation of parks, reserves, recreational areas and open space.

2.3 Scope identification – layers

Transport and Topography Theme Layers

Level
Dataset layers within each of the three themes.

Level name
Layers

Extent

Spatial coverage of Australia's statistical, political, urban and regional subset areas.

- The Transport Theme has four layers: 1. Roads, 2. Railway Lines, 3. Railway Stations and 4. Airports.
- The Hydrology Theme has three layers: 1. Hydrology Polygons, 2. Hydrology Lines, and 3. Hydrology Points.
- The Greenspace Theme has three layers: 1. Greenspace Polygons, 2. Greenspace Lines and 3. Greenspace Points

3. Data Product Identification

3.1 Title

Transport and Topography Dataset

3.2 Alternate titles

Transport and Topography for Australia
T & T
T and T

3.3 Abstract

The Transport and Topography Product Description (an ISO 19131 compliant description) provides an optimised quality geometric description and a set of basic attributes of the Australian transport networks as well as waterways and green areas. The Transport and Topography dataset is created from multiple sources including jurisdictional data which is revised regularly and supplied in varying formats and at different levels of quality.

3.4 Purpose

Transport and Topography is designed to meet the needs of organisations that require a graphical representation of locations of the transport networks (roads, rail and airports), waterways (farm dams through to major rivers and oceans), and green spaces (local playing fields and parks, through to state and national parks) to integrate with other data in servicing their business needs.

Transport and Topography incorporates state boundaries and localities derived from the Administrative Boundaries dataset. The common geometric base allows users to apply the spatial data to the full extent of coverage. This common infrastructure facilitates data integration with supplementary data supplied in the future.

3.5 Topic category

Polygons, lines and points defined by coordinate spatial data (latitude and longitude) with associated textual metadata

3.6 Geographic description

The Transport and Topography dataset covers the addresses within the complete national geography of Australia (AUS). The Bounding Box for this data is as follows;

North bounding latitude: -9°

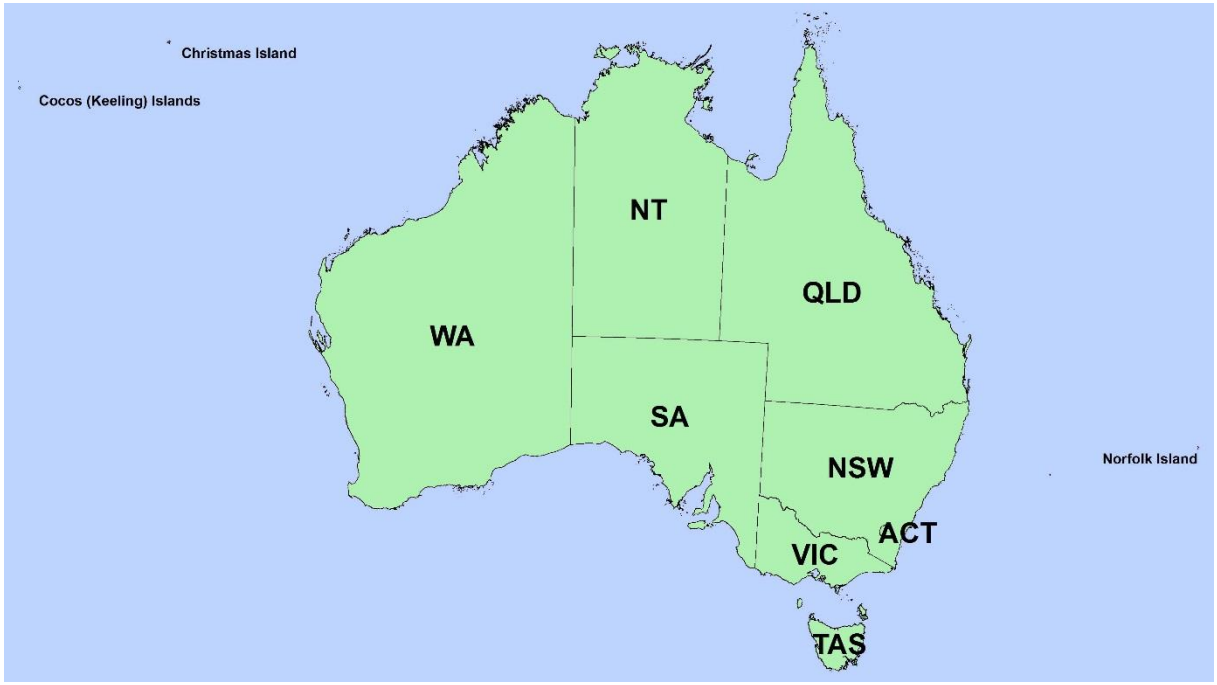
South bounding latitude: -45°

East bounding longitude: 168°

West bounding longitude: 96°

This area covers the land masses of Australia, including External Territories and offshore islands (Christmas Island, Cocos (Keeling) Islands, and Norfolk Island).

The spatial domain is described by the polygon:



Geographic extent name

AUSTRALIA INCLUDING EXTERNAL TERRITORIES – AUS – Australia – Australia

The States and Territories within Australia are represented by the following:

State or Territory Name	Abbreviation	Character Code
New South Wales	NSW	1 (or 01)
Victoria	VIC	2 (or 02)
Queensland	QLD	3 (or 03)
South Australia	SA	4 (or 04)
West Australia	WA	5 (or 05)
Tasmania	TAS	6 (or 06)
Northern Territory	NT	7 (or 07)
Australian Capital Territory	ACT	8 (or 08)
Other Territories	OT	9 (or 09)

Note: Geoscape has aligned Other Territories (OT) with the Australian Bureau of Statistics (ABS). It includes the Territory of Christmas Island, Territory of Cocos (Keeling) Islands, Jervis Bay Territory and more recently the inclusion of Norfolk Island. OT does not include any other external Territory.

4. Data Content and Structure

Transport and Topography is a feature-based product. A data model is included (Appendix A) with an associated data dictionary (Appendix B).

4.1 Feature-based data

The feature type is spatial point, line and polygon for the various Transport and Topography themes. The table below outlines the features and their integration into the datasets.

19T19TEntity	Description	Integration	19T19TRules
Street	A Street represents a segment of road. A Street will have 1 or many line segments defining its spatial existence. A Street can be related to 0 or more localities. If a Street is related to a gazetted locality (e.g. a locality with a polygon representation), its lines in STREET_LOCALITY_LINE will be 'cookie-cut' by the buffered locality polygon. If a Street is related to an un-gazetted locality (e.g. a locality with only point representation), its lines in STREET_LOCALITY_LINE will be 'cookie-cut' by the buffered locality point. A Street/Locality (gazetted or un-gazetted) pair will have 1 active point in STREET_LOCALITY_POINT. This is the centroid of the street line(s) in STREET_LOCALITY_LINE (centroid creation in the same way G-NAF creates street centroids). All Street/Locality pairs may have many alias records describing alternate names for the Street within the Locality.	A Street /Locality pair has: 0 to many related G-NAF Address records	No special rules
Railway	Railway captures railway lines. A railway may have multiple line segments defining its spatial existence.	No integration to other datasets (except State).	No special rules
Railway Station	A railway station is a simple point dataset capturing the location of railway stations.	A Railway Station has: 0 or 1 related gazetted Locality record. Most of the time a Station will be related to a Locality. Will only not be related to a locality where the Railway Station falls within an unincorporated area.	No special rules
Airport Landing Ground	This entity represents a place where aircraft land. It may be either an official airport or an unofficial airstrip. An airport can be represented as point, line or polygon and will generally include the runway/landing strip.	An Airport has: 1 related gazetted Locality record	Airport Landing Grounds are represented by a point, line or polygon feature. Multiple geometries may be used to represent more complex features.
Hydrology	Hydrology is a collection of tables that capture hydrology points, lines and polygons.	No integration to other datasets (except State).	No special rules
Greenspace	Greenspace is a collection of tables that capture greenspace points, lines and polygons of parks, reserves and open space.	No integration to other datasets (except State).	No special rules.
State	Every dataset references a state.	All other datasets reference a state persistent identifier.	No special rules.

The Transport Theme provides data that covers the following layers,

- Roads – A national coverage of network roads at all levels within Australia. Roads data covers everything from major highways to outback tracks.
- Airports – This layer covers all aspects of Airports within Australia, the layer shows all airports from International to local landing strips.
- Railway Lines – This layer contains the national railway line network, including light rail
- Railway Stations – This layer shows railway stations located along the railway line network.

The Hydrology Theme shows locations of waterways, everything from dams on a property to major rivers and oceans.

The Greenspace Theme contains features such as Parks, Reserves, National Parks, Conservation Areas, Forest Reserves, Recreational Areas and other Open Space.

4.2 Feature-based application schema (data model)

The Transport and Topography Data Model Diagram is set out in Appendix A.

4.3 Data dictionary

Feature-based feature catalogue

All tables for the data dictionary are provided in Appendix B. This section provides the feature catalogue in support to the application schema. Spatial attributes are added to the feature catalogue in the same manner as other attributes for completeness and conformance to the application schema.

Note: All Persistent Identifiers that do not identify spatial geometry in the Integrated Data Model are unique nationally and are preceded by the state abbreviation e.g. LGA_PID = NSW12345678.

All Persistent Identifiers for spatial geometry are only unique within the associated dataset and within the state they reside e.g. LGA_POLYGON_PID = 1234567.

The following table refers to all tables in the Feature Catalogue below.

Column	Abbreviation	Description
Name	Name	The name of the column in the Integrated Database
Data Type	Data type	The Oracle data type of the column. Mapinfo TAB files have similar data types.
Description	Description	A description of the column and what the expected contents are
Primary Key?	Prim Key	If 'Y' then this column must always have a unique value. (has # entry in the data model tables)
Obligation	Man	Y = mandatory. If 'Y' (mandatory), this column must be populated with data. That is, all ACTIVE records must have values in this column.
Foreign Key Table	F K TABLE	Represents a column in the 'Foreign Key Table' that this column is referred to by another table. (has * entry in the data model tables)
Foreign Key Column	F K Col	Represents a table in the Integrated Database that this column is referred to.
10 Character Alias	10 Char Alias	An alias for this column name - up to 10 characters maximum. Used to define the name of the column when in ESRI Shapefile format.

For all tables the Persistent Identifier (_pid), date_created and date_retired fields are governed by the ICSM Policy and Guidelines for Incremental Update. This can be accessed by following the link below.

www.icsm.gov.au/icsm/harmonised_data_model/model1/incremental_up-date_guidelines.pdf

Feature-based content scope

All geometry and metadata for polygons, lines and points within the Transport and Topography Dataset.

5. Reference System

5.1 Spatial reference system

GDA 94 or GDA 2020

5.2 Temporal reference system

Gregorian calendar

5.3 Reference system scope

The spatial objects and temporal collection periods for the Transport and Topography Datasets

6. Data Quality

6.1 Positional accuracy

Positional accuracy is an assessment of the closeness of the location of the spatial objects in relation to their true positions on the earth's surface.

The positional accuracy includes:

- a horizontal accuracy assessment
- a vertical accuracy assessment

The horizontal and vertical positional accuracy are the assessed accuracy after all transformations have been carried out.

Relative spatial accuracy of Transport and Topography reflects that of the jurisdictional source data. The accuracy is +/- 2 metres in urban areas and +/- 10 metres in rural and remote areas. No "shift" of data as a means of "cartographic enhancement" to facilitate presentation has been employed for any real-world feature.

The Greenspace and Hydrology Themes are classified as "BB" accuracy. That is, 90% of well-defined features are within 1mm (at plot scale) of their true position, eg 1:500 equates to +/- 0.5metre and 1:25,000 equates to +/- 25 metres. Anecdotal evidence suggests that the spatial accuracy of the major part of the dataset (at all scales) is frequently better than BB.

Note: The accuracy of geometric representation is given by the difference between the position of the geometric representation of an object and its absolute position, as measured with respect to the geodetic network.

6.2 Coordinates Referencing the GDA 2020 Datum

From the November 2019 publication, spatial features are available referencing the GDA 2020 datum. These coordinates are produced using a coordinate transformation from GDA 94 using the following parameters.

```
shift_x = 0.06155,
shift_y = -0.01087,
shift_z = -0.04019,
rotate_x = -0.0394924,
rotate_y = -0.0327221,
rotate_z = -0.0328979,
scale_adjust = -0.009994
```

6.3 Attribute accuracy

Attribute accuracy is an assessment of the reliability of values assigned to features in the dataset in relation to their true 'real world' values.

Key attributes (name and the unique identifier) have a high degree of accuracy in the order of 99.09%. Other attributes derived from the processing of supplied data may have a lower degree of accuracy but less than previously released data. All attribute accuracies are dependent on the data accuracy supplied to Geoscape Australia.

For this product, feature and attribute accuracy is a measure of the degree to which the features and attribute values of spatial objects agree with the information on the source material. The allowable error in attribute accuracy was previously up to 5%.

A precise attribute accuracy assessment may not always be possible. In these cases an intuitive estimate of the expected attribute accuracy or the likely maximum error based on previous experience is acceptable

6.4 Logical consistency

Logical consistency is a measure of the degree to which data complies with the technical specification. The allowable error in logical consistency previously ranged from 3% to 5%. The test procedures are a mixture of software scripts and onscreen, visual checks.

The data structure has been tested for conformance with the data model. The following have been tested and confirmed to conform:

- File names
- Attribute names
- Attribute lengths
- Attribute types
- Attribute domains
- Attribute order in file.
- Object type
- Compulsory attributes populated.

6.5 Topological consistency

Topological consistency is the measure of how features spatially relate to other features within and across themes. Topological inconsistencies are identified using a combination of automated rules, and visual analysis. Where topological inconsistencies are identified they are notified back to the supplier organisation for remediation at source. Some minor topological inconsistencies are corrected during product processing using automated rules. The level of topological consistency is dependent on the data supplied to Geoscape.

During product processing there is some attempt to improve topological consistency across state and territory borders within the Transport theme using both automated rules and onscreen analysis. Cross border topological consistency is a complex issue and Geoscape continues to engage the Federal, State, and Territory governments of Australia to improve the topological consistency of spatial datasets across these borders.

6.6 Completeness

Completeness is an assessment of the extent and range of the dataset with regard to completeness of coverage, completeness of classification and completeness of verification.

Dataset, theme and coverage

National for the Transport Networks, the Hydrology and Green Spaces.

Attribute completeness

All attributes for each object are populated according to the data model, noting that some attributes are not mandatory.

Temporal accuracy for each layer is applicable to its most current release.

Quality scope

Polygon, line and point geometry accuracy and attribute accuracy for all included areas.

7. Data Capture

All spatial data is supplied by the jurisdictions (Commonwealth, states and territories governments) through various agencies.

For each theme, the data is supplied by the appropriate agency as described below.

7.1 Transport theme

The digital transport polygons, lines, and points as well as their legal identifiers have been derived from the relevant bodies from each Australian state and territory jurisdiction.

7.2 Hydrology theme

The digital hydrology polygons and lines as well as their identifiers have been derived from the relevant bodies from each Australian state and territory jurisdiction.

7.3 Greenspace theme

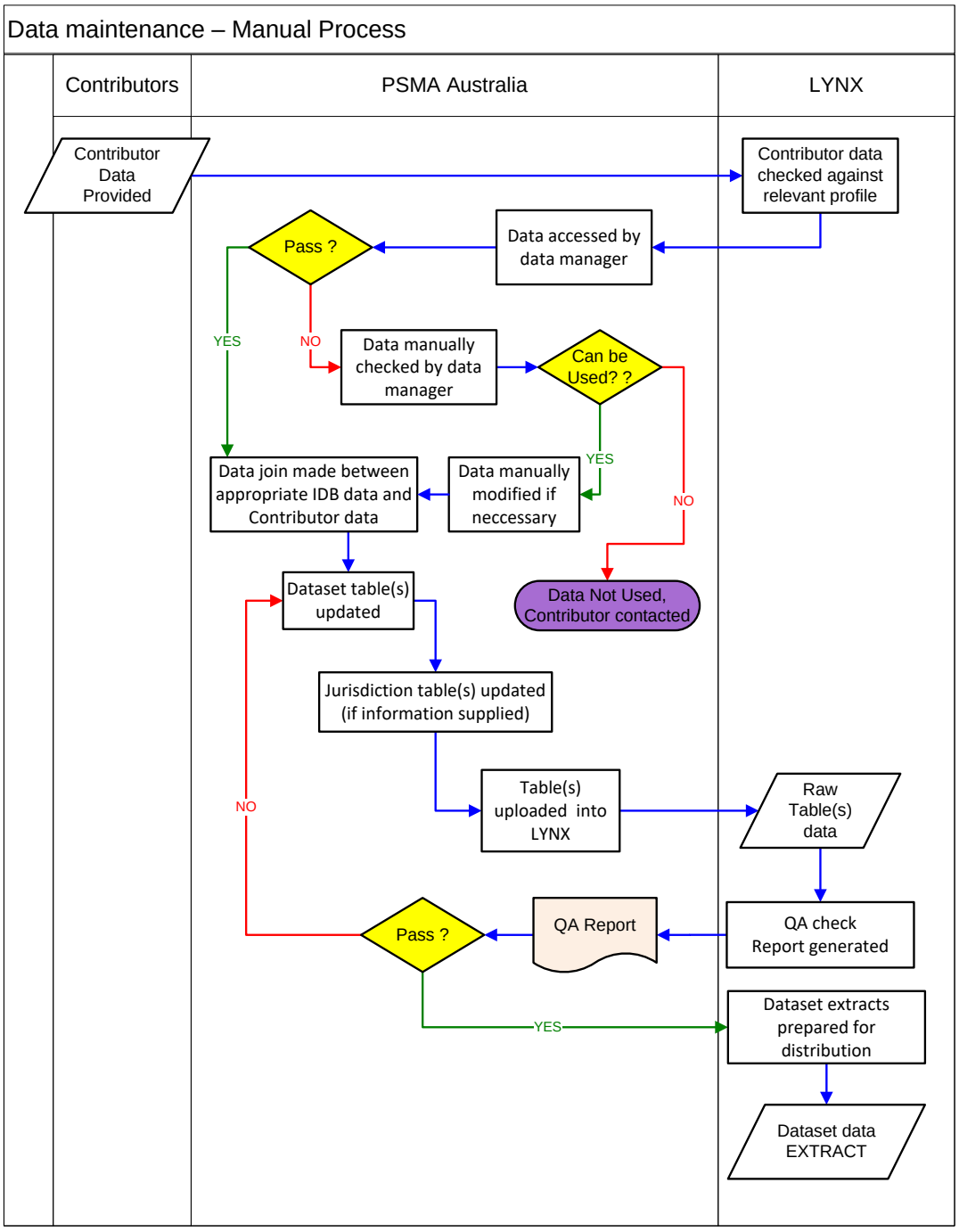
The digital Greenspace polygons as well as their identifiers have been derived from the relevant bodies from each Australian state and territory jurisdiction.

7.4 Data capture scope

Data for changed objects within the current release time period.

8. Data Maintenance

Maintenance of airports, railways, railway stations, hydrology and greenspace is carried out using GIS desktop applications.



8.1 Update frequency

Geoscape Australia releases updates to all datasets every quarter in the months of February, May, August and November. The Transport and Topography dataset is updated as deemed necessary by the jurisdictions. Updates are inserted in the Transport and Topography dataset product as they are supplied by data contributors.

8.2 Maintenance scope

Geoscape Australia's data maintenance occurs for existing objects with changed geometry and/or attributes, as well as data for new objects within the release time period.

9. Data Product Delivery

Geoscape Australia is the crucial link between the supply and demand sides of the market for the fundamental national spatial datasets that it offers under the banner of Geoscape Data. The organisation eliminates the difficulties of negotiating multiple license agreements with Australian governments and the problems of integrating the data into a seamless consistent national dataset. Furthermore, the existence of Geoscape Australia minimises the duplication of effort within the market for organisations wishing to access national data.

Access to Geoscape Data is enabled through a network of value-added resellers who are licensed by, and work closely with Geoscape Distribution, the wholly owned subsidiary of Geoscape Australia. Value-added resellers create many powerful and varied applications that use Geoscape Data. Geoscape Distribution provides strategic support to value-added resellers to ensure that both the public and private sectors obtain the maximum benefit from the use of Geoscape Data. Geoscape Australia's website www.geoscape.com.au provides a value-added reseller directory to assist those interested in accessing Geoscape Data.

Current users of Geoscape Data should contact their value-added reseller for clarification or guidance before contacting Geoscape Distribution.

For further information on accessing Geoscape Data, or becoming a value-added reseller contact:

Geoscape Data Distribution
Unit 6, 113 Canberra Avenue, Griffith ACT 2603
T: 02 6260 9000
W: www.geoscape.com.au

9.1 Delivery medium information

Goescape Systems is a cutting-edge data platform that has been developed to hold, quality assure and distribute Geoscape Australia's suite of national spatial datasets. It streamlines Geoscape Australia's data delivery. The core of Geoscape Systems is the Integrated Database (IDB), which holds the suite of datasets in one location and within a single environment.

Geoscape Australia provides data updates to licensees through data download. This service is supported by a detailed user guide.

9.2 Units of delivery

Datasets as prescribed in the license agreement brokered by Geoscape Distribution.

9.3 Medium name

Online.

9.4 Delivery format information

MapInfo

Format Name:

TAB – MapInfo Professional

Specification:

The MapInfo TAB format is a popular geospatial vector data format for geographic information systems software. It is developed and regulated by MapInfo as a proprietary format. This format includes files with the following extensions: *.tab, *.dat, *.id, *.map

TAB files support geospatial standards such as Open GIS, the OGC, ISO, W3C and others.

Language:

English

Shape

Format Name:

Shape – ESRI

Specification:

This format includes files with the following extensions: *.shp, *.shx, *.dbf

ESRI Shapefile Technical Description, an ESRI White Paper, July 1998

Follow this link: www.esri.com/library/whitepapers/pdfs/shapefile.pdf

Language:

English

Oracle Data Pump

Format Name:

Oracle 11g Data Pump Format

Specification:

The Data Pump (dump) file set is made up of one or more files that contain table data, database object metadata, and control information. More information is available from ***Oracle***

Language:

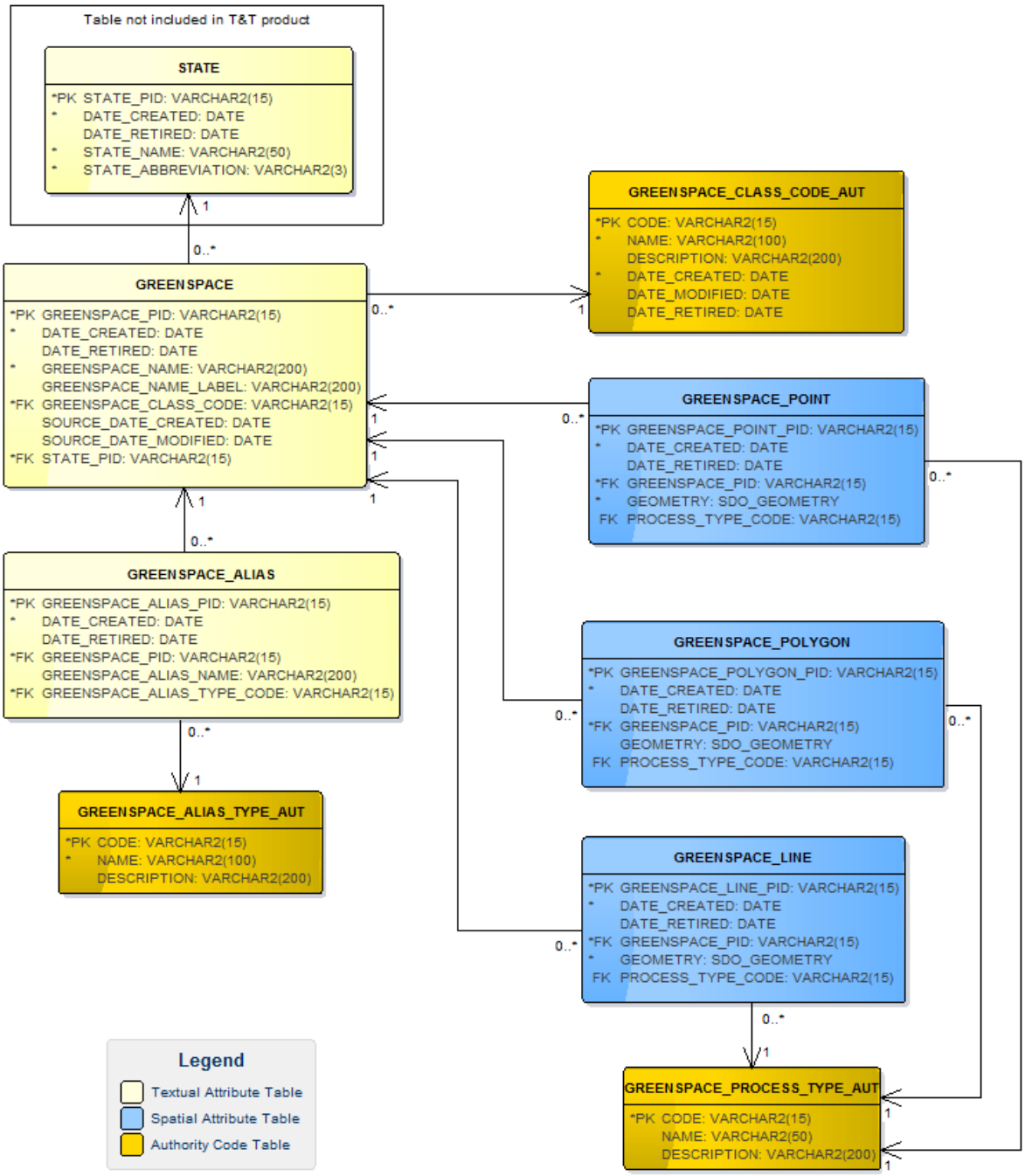
English

10. Geoscape Data

DATASET	ACCESS	THEME	LAYER
Administrative Boundaries	Open Data (www.data.gov.au) Partner Network	ABS Boundaries 2011	2011 ABS Mesh Blocks
			Indigenous Location (ILOC)
			Indigenous Areas (IARE)
			Indigenous Region (IREG)
			Remoteness Areas (RA)
			Socio-Economic Indexes for Areas (SEIFA)
			Urban Centre Localities /Section of State
			Significant Urban Areas (SUA)
		ABS Boundaries 2016	2016 ABS Mesh Blocks and Statistical Areas
			2016 ABS Indigenous Regions, Areas and Locations
			2016 Urban Centre and Locality - Section of State - Significant Urban Area
			2016 Remoteness Areas (RA)
			2016 Socio-Economic Indexes for Areas (SEIFA)
		Electoral Boundaries	Commonwealth Electoral Boundaries
			State Electoral Boundaries
		Local Government Areas (LGAs)	
		Suburbs/Localities	
		State Boundaries	
		Town Points	
		Wards	
CadLite	Partner Network	Cadastre	
		Property	
Geoscape	Partner Network	Buildings	
		Surface Cover	2 Metres
			30 Metres
		Trees	
G-NAF	Open Data (www.data.gov.au) Partner Network	Geocoded physical addresses	
Land Tenure	Partner Network	Land Tenure	
Features of Interest	Partner Network	Features of Interest	
Postcodes	Partner Network	Postcode Boundaries	
Transport & Topography	Partner Network	Transport	Roads
			Rail
			Rail Stations
			Airports
		Hydrology	
		Greenspace	

Appendix A – Transport & Topography Data Model Diagram

Transport and Topography DATA MODEL page 1



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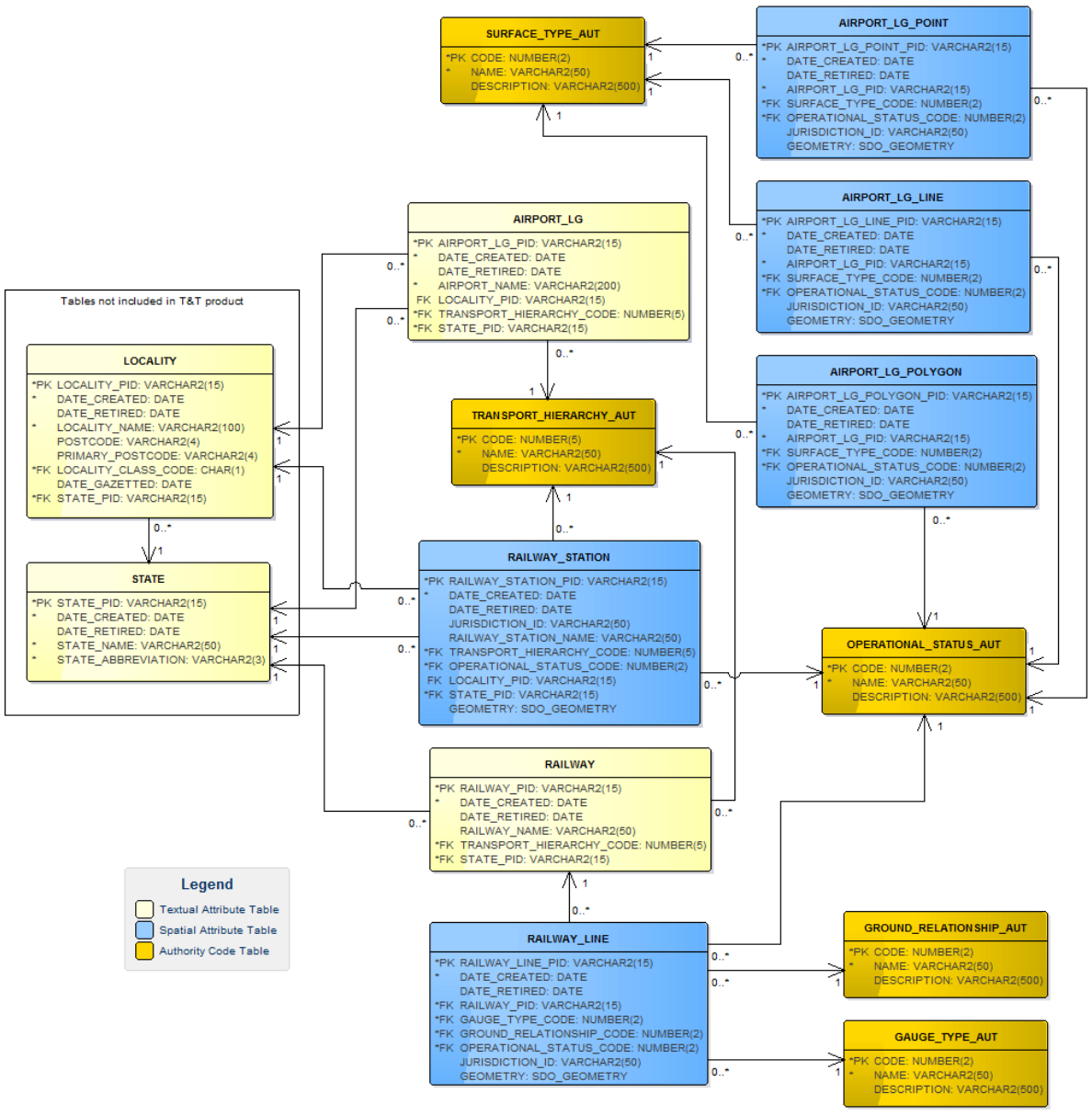
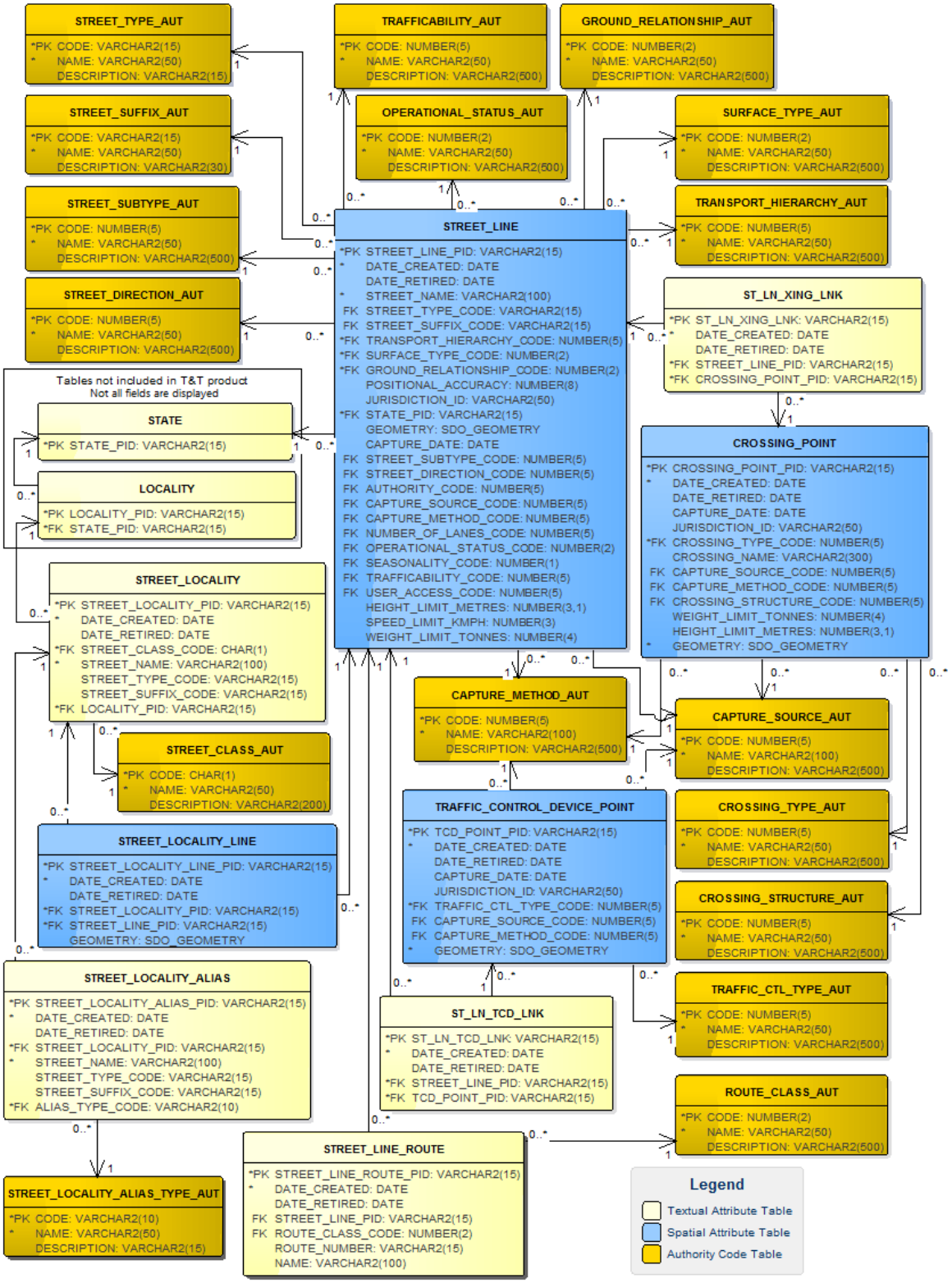
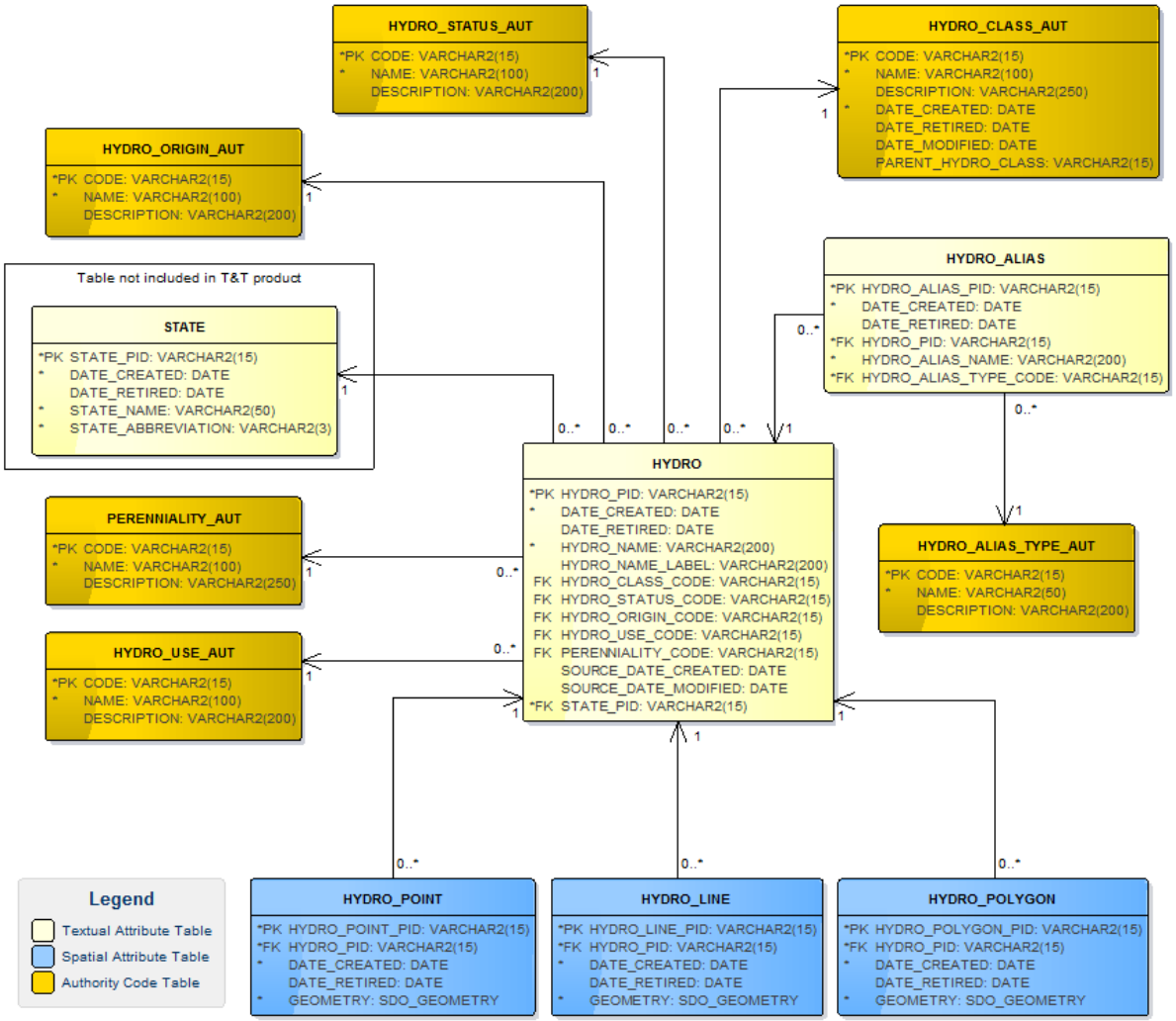


Transport and Topography DATA MODEL page 3



Note: the TEMP_STREET_LINE_TRACK table (where it exists for a jurisdiction) has the same fields and relationships with other tables as the STREET_LINE table.

Transport and Topography DATA MODEL page 4



Appendix B – Data Dictionary

TRANSPORT

Airports

Table 1: AIRPORT_LG

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
AIRPORT_LG_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ALG_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
AIRPORT_NAME	varchar2(200)	The name of the airport.	N	Y	-	-	NAME
LOCALITY_PID	varchar2(15)	Locality persistent identifier. Not mandatory because an airport does not have to exist in a gazetted locality.	N	N	-	-	LOC_PID
TRANSPORT_HIERARCHY_CODE	number(5)	Transport Hierarchy Code (currently always 700 - any identified landing ground)	N	Y	TRANSPORT_HIERARCHY_AUT	CODE	THIER_CODE
STATE_PID	varchar2(15)	State or territory persistent identifier	N	Y	STATE	STATE_PID	STATE_PID

Table 2: AIRPORT_LG_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
AIRPORT_LG_LINE_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	AL_LNE_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
AIRPORT_LG_PID	varchar2(15)	Airport persistent identifier.	N	Y	AIRPORT_LG	AIRPORT_LG_PID	ALG_PID

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
SURFACE_TYPE_CODE	number(2)	Surface type code.	N	Y	SURFACE_TYPE_AUT	CODE	SFTYP_CODE
OPERATIONAL_STATUS_CODE	number(2)	Operational status code.	N	Y	OPERATIONAL_STATUS_AUT	CODE	OPSTT_CODE
JURISDICTION_ID	varchar2(20)	Jurisdiction identifier.	N	N	-	-	JRSDCTN_ID
GEOMETRY	line	Line geometry.	N	Y	-	-	GEOMETRY

Table 3: AIRPORT_LG_POINT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
AIRPORT_LG_POINT_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	AL_PNT_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
AIRPORT_LG_PID	varchar2(15)	Airport persistent identifier.	N	Y	AIRPORT_LG	AIRPORT_LG_PID	ALG_PID
SURFACE_TYPE_CODE	number(2)	Surface type code	N	Y	SURFACE_TYPE_AUT	CODE	SFTYP_CODE
OPERATIONAL_STATUS_CODE	number(2)	The operational status code.	N	Y	OPERATIONAL_STATUS_AUT	CODE	OPSTT_CODE
JURISDICTION_ID	varchar2(20)	Jurisdiction identifier.	N	N	-	-	JRSDCTN_ID
GEOMETRY	point	Point geometry	N	Y	-	-	GEOMETRY

Table 4: AIRPORT_LG_POLYGON

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
AIRPORT_LG_POLYGON_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	AL_PLY_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
AIRPORT_LG_PID	varchar2(15)	Airport persistent identifier.	N	Y	AIRPORT_LG	AIRPORT_LG_PID	ALG_PID
SURFACE_TYPE_CODE	number(2)	Surface type code.	N	Y	SURFACE_TYPE_AUT	CODE	SFTYP_CODE
OPERATIONAL_STATUS_CODE	number(2)	Operational status code.	N	Y	OPERATIONAL_STATUS_AUT	CODE	OPSTT_CODE
JURISDICTION_ID	varchar2(20)	Jurisdiction identifier.	N	N	-	-	JRSDCTN_ID

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
GEOMETRY	polygon	Polygon geometry.	N	Y	-	-	GEOMETRY

Rail

Table 5: GAUGE_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(2)	Gauge type code e.g. 1. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	The gauge type code name. e.g. OPERATIONAL.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the gauge type code means.	N	N	-	-	DSCPN_AUT

Table 6: GAUGE_TYPE_AUT Codes

Code	NAME	Code	NAME
1	STANDARD	3	NOT KNOWN
2	NARROW	4	BROAD

Table 7: RAILWAY

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
RAILWAY_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	RW_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
RAILWAY_NAME	varchar2(50)	Name of railway, if exists.	N	N	-	-	NAME
TRANSPORT_HIERARCHY_CODE	number(5)	Transport hierarchy code.	N	Y	TRANSPORT_HIERARCHY_AUT	CODE	THIER_CODE
STATE_PID	varchar2(15)	State or territory persistent identifier.	N	Y	STATE	STATE_PID	STATE_PID

Table 8: RAILWAY_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
RAILWAY_LINE_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	RW_LNE_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
RAILWAY_PID	varchar2(15)	The railway persistent identifier.	N	Y	RAILWAY	RAILWAY_PID	RW_PID
GAUGE_TYPE_CODE	number(2)	Gauge type code.	N	Y	GAUGE_TYPE_AUT	CODE	GGTYP_CODE
GROUND_RELATIONSHIP_CODE	number(2)	Ground relationship code.	N	Y	GROUND_RELATIONSHIP_AUT	CODE	GRREL_CODE
OPERATIONAL_STATUS_CODE	number(2)	Operational status code.	N	Y	OPERATIONAL_STATUS_AUT	CODE	OPSTT_CODE
JURISDICTION_ID	varchar2(50)	ID the jurisdictions used for this record.	N	N	-	-	JRSDCTN_ID
GEOMETRY	line	Line geometry.	N	Y	-	-	GEOMETRY

Table 9: RAILWAY_STATION

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
RAILWAY_STATION_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	RAILST_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
JURISDICTION_ID	varchar2(50)	ID used by jurisdiction for record - not mandatory as not supplied for some data.	N	N	-	-	JRSDCTN_ID
RAILWAY_STATION_NAME	varchar2(50)	The railway station name, if exists.	N	N	-	-	NAME
TRANSPORT_HIERARCHY_CODE	number(5)	Transport Hierarchy Code - e.g. 501.	N	Y	TRANSPORT_HIERARCHY_AUT	CODE	THIER_CODE
OPERATIONAL_STATUS_CODE	number(2)	Operational, Under Construction, Disused	N	Y	OPERATIONAL_STATUS_AUT	CODE	OPSTT_CODE
LOCALITY_PID	varchar2(15)	The locality persistent identifier where a railway station falls within (if applicable).	N	N	LOCALITY	LOCALITY_PID	LOC_PID
STATE_PID	varchar2(15)	State Persistent Identifier	N	Y	STATE	STATE_PID	STATE_PID
GEOMETRY	point	Point geometry	N	Y	-	-	GEOMETRY

Roads

Note: the difference between STREET_TYPE_CODE and STREET_SUBTYPE_CODE:

- **STREET_TYPE_CODE refers to the part of an aggregated road name, i.e. the 'ROAD' in 'SMITH ROAD'. It may not be populated for all roads, in particular unnamed or access roads.**
- **STREET_SUBTYPE_CODE refers to the structural classification of the road, i.e. whether it is constructed as a motorway, dual carriageway, vehicle track, roundabout etc. It is a number field and will always have a value (which may be 0, see table 13).**

Table 10: OPERATIONAL_STATUS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(2)	The operational status code. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	The name of the operational status code e.g. Operational.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the operational status code means.	N	N	-	-	DSCPN_AUT

Table 10: OPERATIONAL_STATUS_AUT Codes

Code	NAME	Code	NAME
1	Operational	5	Closed
2	Under Construction	6	Proposed
3	Disused	7	Notional
4	Unknown		

Table 11: ROUTE_CLASS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(2)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	CODE
NAME	varchar2(500)	Name of the route class code.	N	Y	-	-	NAME
DESCRIPTION	varchar2(500)	Description of what the route class code means.	N	Y	-	-	DESC

Table 12: ROUTE_CLASS_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	Nature of route is not determined.
1	NationalRoute	Route is of National Significance.
2	StateRoute	Route is of State Significance.
3	Tourist	Route is part of a tourist route.
4	Cycleway	Route is predominantly for cycle traffic.
5	HeavyHaulage	Route is identified as a Heavy Haulage route.
6	AusLink	Route is part of the National Road Network.
7	Motorway	Route is identified as a Motorway.

Table 13: TRANSPORT_HIERARCHY_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	Transport hierarchy code e.g. 301. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of transport hierarchy code e.g. National or State Highway.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the transport hierarchy code means.	N	N	-	-	DSCPN_AUT

Table 14: TRANSPORT_HIERACHY_AUT Codes

CODE	NAME	DESCRIPTION
301	National or State Highway	Roads which are of importance in a national sense, and/or are a major interstate through route, and/or are principal connector roads between capitals and/or major regions and or key towns/commercial centres/inter-transport hubs.
302	Arterial Road	Well maintained and widely used roads which are major connectors for national highways or state highways, major centres, key towns, or have major tourist importance or which main function is to form the principal avenue of communication for metropolitan traffic movements.
303	Sub-arterial Road	Acts as connector between highways and/or arterial roads, or as an alternative for arterial roads, or a principal avenue for massive traffic movements
304	Collector Road	Provides for traffic movement between sub-arterial and local roads or to distribute traffic to local street systems.
305	Local Road	Provides property access. Includes service roads that may share the same name as higher order roads.

CODE	NAME	DESCRIPTION
308	Undetermined	Classification undetermined.
309	Access road	Road designed to provide access to the rear of, into or within a property but may not necessarily be part of the public road network. They generally do not have addresses. Would be applied to urban service lanes, driveways, and other tracks on private property.
400	Pedestrian Thoroughfare	A road or passage whose main purpose is to provide non-vehicular access for pedestrians but may allow some vehicular access (eg malls). Also includes arcades, cycle tracks and foot tracks.
500	Railway Line 1	Public Railway Lines
501	Railway Station	Railway Station
503	Railway Line 2	Railway Lines which are Privately owned.
600	Busway	A road which has been dedicated as a rapid bus-only transit way. This does not include roads which have bus-only lanes.
700	Any Identified aircraft landing ground	Any Identified aircraft landing ground
701	Helipad	Helipad

Table 15: GROUND_RELATIONSHIP_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(2)	Ground relationship code e.g. 1. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of the ground relationship code e.g. In Tunnel	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the ground relationship code means.	N	N	-	-	DSCPN_AUT

Table 16: GROUND_RELATIONSHIP_AUT Codes

Code	NAME	DESCRIPTION
0	Unknown	
1	Above Ground or On Bridge	Road passes over a bridge, and is therefore above the ground or water.
2	In Tunnel	Road passes through a tunnel, and is therefore below the ground or water.
3	On Ground	Road is on the ground. Default value.
4	Other	This may include causeways, dam walls, fords or other crossings.
5	On Water	This includes ferry routes or other On Water transportation.

Table 17: STREET_LINE_ROUTE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
STREET_LINE_ROUTE_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	SL_RT_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
STREET_LINE_PID	varchar2(15)	Street line persistent identifier.	N	Y	STREET_LINE	STREET_LINE_PID	ST_LNE_PID
ROUTE_CLASS_CODE	number(2)	Route class code e.g. 1 = National Route.	N	Y	ROUTE_CLASS_AUT	CODE	RT_CLS_CD
ROUTE_NUMBER	varchar2(15)	The route number.	N	N	-	-	ROUTE_NUM

Table 18: STREET_LOCALITY

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
STREET_LOCALITY_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ST_LOC_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
STREET_CLASS_CODE	char(1)	Street class code e.g. C = CONFIRMED.	N	Y	STREET_CLASS_AUT	CODE	STCLS_CODE
STREET_NAME	varchar2(100)	Street name e.g. "POPLAR".	N	Y	-	-	NAME
STREET_TYPE_CODE	varchar2(15)	The street type code e.g. CRESCENT.	N	N	STREET_TYPE_AUT	CODE	STTYP_CODE
STREET_SUFFIX_CODE	varchar2(15)	The street suffix code e.g. W = WEST.	N	N	STREET_SUFFIX_AUT	CODE	STSFX_CODE
LOCALITY_PID	varchar2(15)	Locality persistent identifier.	N	Y	LOCALITY	LOCALITY_PID	LOC_PID

Table 19: STREET_LOCALITY_ALIAS

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
STREET_LOCALITY_ALIAS_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	SL_ALI_PID

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
STREET_LOCALITY_PID	varchar2(15)	Street locality persistent identifier.	N	Y	STREET_LOCALITY	STREET_LOCALITY_PID	ST_LOC_PID
STREET_NAME	varchar2(100)	Street alias name e.g. "POPLAR".	N	Y	-	-	NAME
STREET_TYPE_CODE	varchar2(15)	The street type code e.g. CRESCENT.	N	N	STREET_TYPE_AUT	CODE	STTYP_CODE
STREET_SUFFIX_CODE	varchar2(15)	The street suffix code e.g. W = WEST.	N	N	STREET_SUFFIX_AUT	CODE	STSFX_CODE
ALIAS_TYPE_CODE	varchar2(10)	Alias type code.	N	Y	STREET_LOCALITY_ALIAS_TYPE_AUT	CODE	ALTYP_CODE

Table 20: STREET_LOCALITY_ALIAS_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	varchar2(15)	Street locality alias type code (e.g. SYN). This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of the street locality alias type code.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the street locality alias type code means (e.g. SYNONYM).	N	N	-	-	DSCPN_AUT

Table 21: STREET_LOCALITY_ALIAS_TYPE_AUT Codes

Code	DESCRIPTION	NAME
SYN	Derived from the Address Processing in G-NAF	SYNONYM
ALT	Derived from Roads processing in Transport	ALTERNATIVE

Table 22: STREET_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
STREET_LINE_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ST_LNE_PID

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
CAPTURE_DATE	date	Date this record was captured.	N	N	-	-	DT_CAPTURE
STREET_NAME	varchar2(100)	Street name. e.g. "POPLAR".	N	Y	-	-	NAME
STREET_TYPE_CODE	varchar2(15)	Street type code e.g. CRESCENT.	N	N	STREET_TYPE_AUT	CODE	STTYP_CODE
STREET_SUBTYPE_CODE	number(5)	Street subtype code e.g. 2 = Dual Carriageway.	N	Y	STREET_SUBTYPE_AUT	CODE	SUBTYPE_CD
STREET_SUFFIX_CODE	varchar2(15)	Street suffix code e.g. W = WEST.	N	N	STREET_SUFFIX_AUT	CODE	STSFX_CODE
STREET_DIRECTION_CODE	number(5)	Street direction code e.g.1 = One way.	N	N	STREET_DIRECTION_AUT	CODE	DIRN_CD
AUTHORITY_CODE	number(5)	Authority code e.g.1 = State Authority.	N	N	AUTHORITY_AUT	CODE	AUTHRTY_CD
CAPTURE_SOURCE_CODE	number(5)	Capture source code e.g. 10 = State/Territory Topographic Mapping program.	N	N	CAPTURE_SOURCE_AUT	CODE	SOURCE_CD
CAPTURE_METHOD_CODE	number(5)	Capture method code e.g. 11 = Derived from cadastre.	N	N	CAPTURE_METHOD_AUT	CODE	METHOD_CD
NUMBER_OF_LANES_CODE	number(5)	Number of lanes code e.g. 1 = One.	N	N	NUMBER_OF_LANES_AUT	CODE	LANES_CD
OPERATIONAL_STATUS_CODE	number(2)	Operational status code e.g.2 = Under Construction.	N	N	OPERATIONAL_STATUS_AUT	CODE	STATUS_CD
SEASONALITY_CODE	number(1)	Seasonality code e.g. 1 - Subject to Seasonal Closure.	N	N	SEASONALITY_AUT	CODE	SEASONL_CD
TRANSPORT_HIERARCHY_CODE	number(5)	Transport hierarchy code e.g.302 = Arterial Road.	N	Y	TRANSPORT_HIERARCHY_AUT	CODE	THIER_CODE
SURFACE_TYPE_CODE	number(2)	Surface type code e.g.1 = Sealed.	N	Y	SURFACE_TYPE_AUT	CODE	SFTYP_CODE
GROUND_RELATIONSHIP_CODE	number(2)	Ground relationship code e.g.1 = Above Ground or On Bridge.	N	Y	GROUND_RELATIONSHIP_AUT	CODE	GRREL_CODE
TRAFFICABILITY_CODE	number(5)	Trafficability code e.g. 2 = Pedestrian traffic only.	N	N	TRAFFICABILITY_AUT	CODE	TRFFCBL_CD
USER_ACCESS_CODE	number(5)	User access code e.g. 2 = Authorised.	N	N	USER_ACCESS_AUT	CODE	ACCESS_CD
HEIGHT_LIMIT_METRES	number(3,1)	The height limit of vehicles in metres.	N	N	-	-	HGHT_LMT_M
SPEED_LIMIT_KMPH	number(3)	Speed limit in kilometres per hour.	N	N	-	-	SPD_LMT_KM
WEIGHT_LIMIT_TONNES	number(4)	The weight limit of vehicles in tonnes allowed on the structure.	N	N	-	-	WGHT_LMT_T
POSITIONAL_ACCURACY	number(8)	Positional accuracy in metres.	N	N	-	-	POS_ACC
JURISDICTION_ID	varchar2(16)	The jurisdiction identifier used for this street. Note that NSW sourced roads within the ACT dataset have a 'NSW' prefix for the JURISTICTION_ID attribute.	N	N	-	-	JRSDCTN_ID

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
STATE_PID	varchar2(15)	State or territory persistent identifier.	N	Y	STATE	STATE_PID	STATE_PID
GEOMETRY	line	Line geometry.	N	Y	-	-	GEOMETRY

Table 23: AUTHORITY_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(5)	Authority code (e.g. 1). This is the persistent identifier.	Y	Y	-	-	CODE
NAME	varchar2(50)	Name of the authority code.	N	Y	-	-	NAME
DESCRIPTION	varchar2(500)	Description of what the authority code means.	N	Y	-	-	DESCRIPTIO

Table 24: AUTHORITY_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	State authority	Road is vested in a state government authority or agency, usually as a result of being declared under relevant jurisdictional legislation, registration processes, gazettal or proclamation; the state government authority is overall responsible for the upkeep of the road. Roads funded federally would still have AUTHORITY = "State"
2	Local authority	Road is vested in a local government authority, as a result of relevant legislation etc. The LGA is overall responsible for the upkeep of the road.
3	Other government entity	Road is vested in another government authority.
4	Undetermined government authority	Road is vested in either a state or local government authority.
8	Private	Road on privately-owned property which has not been given to a government entity for management.
9	Other	
14	State Government - Transport Authority	Road is vested in, and is the responsibility of, the relevant state or territory transport authority.
16	State Government – Forestry Authority	Road is vested in, and is the responsibility of, the relevant state or territory forestry or primary industries authority.
17	State Government – National Parks Authority	Road is vested in, and is the responsibility of, the relevant state or territory national parks and wildlife authority.
98	Road crosses cadastre	Road crosses the boundary of cadastral parcels and may or may not be part of the public road network.
99	Likely non-public road	Road falls completely within a cadastral parcel and is therefore not likely to be part of the public road network.

Table 25: CAPTURE_METHOD_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(5)	Capture method code (e.g. 10). This is the persistent identifier.	Y	Y	-	-	CODE
NAME	varchar2(50)	Name of the capture method code.	N	Y	-	-	NAME
DESCRIPTION	varchar2(500)	Description of what the capture method code means.	N	Y	-	-	DESCRIPTIO

Table 26: CAPTURE_METHOD _AUT Codes

CODE	NAME	CODE	NAME
0	Unknown	31	Trace stereophotography
10	Derived	32	Trace orthophotography
11	Derived from cadastre	33	Trace other georeferenced statellite/photo image
12	Derived from scanned map	40	Trace from table digitising
20	GPS	50	Engineering/surveying data
21	GPS differential	90	Estimated
22	GPS mobile	99	Other
30	Trace		

Table 27: CAPTURE_SOURCE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(5)	Capture source code (e.g. 10). This is the persistent identifier.	Y	Y	-	-	CODE
NAME	varchar2(50)	Name of the capture source code.	N	Y	-	-	NAME
DESCRIPTION	varchar2(500)	Description of what the capture source code means.	N	Y	-	-	DESCRIPTIO

Table 28: CAPTURE_SOURCE _AUT Codes

CODE	NAME	CODE	NAME
0	Undetermined	30	Local Government
10	State/Territory Topographic Mapping program	40	Transport Authority

CODE	NAME	CODE	NAME
11	Jurisdiction tourism mapping program	50	Emergency Services
12	Other Lands Program: Pastoral, Cadastral, Indigenous	60	Forestry
20	Collaborative topographic mapping program	70	National Parks & Wildlife
21	Commonwealth topographic mapping program (non-Defence)	80	Water Authority
22	Defence topographic mapping program	90	Power Authority
23	Other Commonwealth mapping program	99	Other

Table 29: NUMBER_OF_LANES_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(5)	Number of lanes code (e.g. 1). This is the persistent identifier.	Y	Y	-	-	CODE
NAME	varchar2(50)	Name of the number of lanes code.	N	Y	-	-	NAME
DESCRIPTION	varchar2(500)	Description of what the number of lanes code means.	N	Y	-	-	DESCRIPTIO

Table 30: NUMBER_OF_LANES_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	One	Road only has one lane.
2	More than one	Road has two or more lanes.

Table 31: SEASONALITY_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(5)	Seasonality code (e.g. 1). This is the persistent identifier.	Y	Y	-	-	CODE
NAME	varchar2(50)	Name of seasonality code.	N	Y	-	-	NAME
DESCRIPTION	varchar2(500)	Description of what the seasonality code means.	N	Y	-	-	DESCRIPTIO

Table 32: SEASONALITY_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	Default value. Includes all other roads which may still be closed due to adverse but unlikely weather conditions.
1	Subject to Seasonal Closure	Road is subject to closure at certain times of year depending upon weather conditions. For example, during wet weather or snow. Victoria currently populates from CFA feedback.

Table 33: STREET_DIRECTION_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(5)	Street direction code (e.g. 1). This is the persistent identifier.	Y	Y	-	-	CODE
NAME	varchar2(50)	Name of the street direction code.	N	Y	-	-	NAME
DESCRIPTION	varchar2(500)	Description of what the street direction code means.	N	Y	-	-	DESCRIPTIO

Table 34: STREET_DIRECTION_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	One way	Traffic is restricted to travel in one direction only at all times.
2	Both ways	Traffic can travel in either direction.
3	Alternating	Traffic is restricted to travel in one direction only, but the direction can change.

Table 35: STREET_SUBTYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(5)	Street subtype code (e.g. 1). This is the persistent identifier.	Y	Y	-	-	CODE
NAME	varchar2(50)	Name of the street subtype code.	N	Y	-	-	NAME
DESCRIPTION	varchar2(500)	Description of what the street subtype code means.	N	Y	-	-	DESCRIPTIO

Table 36: STREET_SUBTYPE_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	Standard Road/Single Carriageway	Single carriageway road with ability to be addressed if required. Default value. Would include emergency crossovers.
2	Dual Carriageway	Two road segments with opposing flows of traffic, with a physical impediment to crossing from one side to another, and carrying the same name and other common attributes. Can have property access and crossings.
3	Motorway	A high traffic volume, high speed road, generally comprising dual carriageway and also having full access control and grade separated intersections, with no direct access from adjoining properties or side roads and all crossings are by means of overpass and underpass bridges with traffic entering or leaving by means of ramps.

CODE	NAME	DESCRIPTION
4	Roundabout	Road segment part of an intersection designed to allow smooth integration but also slow traffic. It must be circular or elliptical in design, have one-way flow, and would generally not have addresses on it. Roundabouts larger than 20m will be captured as lines with this sub-type.
5	Entry/Exit Ramp	An access ramp to or from one road to another to allow smooth integration of traffic, and is associated with a road of ROADTYPE = "freeway" or "motorway". Travel flow is in one direction only, they are always sealed and mostly have a single lane.
6	Vehicular Track	A road of minimal or no construction, whose surface may vary from poorly surfaced to tracks beaten by the passage of vehicles. They are generally passable by 2WD vehicles in fair weather only. Vehicular tracks generally do not form part of the public communication system, but provide access to individual properties or areas used for pastoral or industrial purposes. May include driveways in properties.
7	Pathway	A road or track designed to carry pedestrian or cycle traffic only (but may have restricted vehicular access).
8	Connector	A data management feature used to connect other road features to allow network analysis of transportation systems.
9	Ferry Route	A ferry route.

Table 37: TRAFFICABILITY_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(5)	Trafficability code (e.g. 1). This is the persistent identifier.	Y	Y	-	-	CODE
NAME	varchar2(50)	Name of the trafficability code.	N	Y	-	-	NAME
DESCRIPTION	varchar2(500)	Description of what the trafficability code means.	N	Y	-	-	DESCRIPTIO

Table 38: TRAFFICABILITY_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	All Vehicles	Open to use by any vehicle.
2	Pedestrian traffic only	Pedestrian traffic only.
3	Limited Capacity	Limited capacity.
4	4WD only	Unimproved road generally only passable in a 4WD vehicle.

Table 39: USER_ACCESS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(5)	User access code (e.g. 1). This is the persistent identifier.	Y	Y	-	-	CODE
NAME	varchar2(50)	Name of the user access code.	N	Y	-	-	NAME
DESCRIPTION	varchar2(500)	Description of what the user access code means.	N	Y	-	-	DESCRIPTIO

Table 40: USER_ACCESS_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	Inclusive	Road is usually open at all times to the general public.
2	Authorised	Access to road may require authorisation from responsible authority. Includes but not limited to state and local authority roads such as some roads in national parks and state forests, cemeteries, sports grounds, hospitals, shopping centres, schools, and roads only accessible by buses; and private roads such as (but not necessarily limited to) caravan parks, retirement villages, universities, private schools, gated communities or other residential complexes. Also includes emergency crossovers.
3	Exclusive / Restricted	Road is restricted to the use of the responsible authority only. Includes roads on private land that do not have a USER ACCESS value of "AUTHORISED". Default value where AUTHORITY = "Private".
4	Tollway	Road is usually open at all times to the general public but will require payment for access.
98	Either Private or Authorised	Road is known to be not part of the public road network and is therefore likely to have restricted access.
99	Either Open or Authorised	Road is vested in a state, territory or local government authority, but its user access is unknown.

Table 41: STREET_LOCALITY_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
STREET_LOCALITY_LINE_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	SL_LNE_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
STREET_LOCALITY_PID	varchar2(15)	Street locality persistent identifier.	N	Y	STREET_LOCALITY	STREET_LOCALITY_PID	ST_LOC_PID
STREET_LINE_PID	varchar2(15)	The STREET_LINE record this record was derived from.	N	Y	STREET_LINE	STREET_LINE_PID	ST_LNE_PID
GEOMETRY	line	Line geometry.	N	Y	-	-	GEOMETRY

Table 42: STREET_CLASS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	varchar (1)	Street class code (e.g. C). This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of the street class code.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(200)	Description of what this street class code represents (e.g. Confirmed Street, Unconfirmed Street).	N	N	-	-	DSCPN_AUT

Table 43: STREET_CLASS_AUT Codes

Street Class Code	Name	Description
C	CONFIRMED	A confirmed street is present in the roads data of the Geoscape Transport and Topography product for the same release.
U	UNCONFIRMED	An unconfirmed street is NOT present in the roads data of the Geoscape Transport and Topography product for the same release and will not have a street locality geocode.

Table 44: STREET_SUFFIX_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	varchar2(15)	Street suffix code (e.g. W).(AS4590.8.8). This is the persistent identifier.	Y	Y	-	-	CODE_AUT
name	varchar2(50)	Name of the street suffix code.	N	Y	-	-	NAME_AUT
description	varchar2(254)	Description of the street suffix code.	N	N	-	-	DSCPN_AUT

Table 45: STREET_SUFFIX_AUT Codes

Suffix Type	Description / Name	Suffix Type	Description / Name
CN	CENTRAL	SE	SOUTH EAST
DE	DEVIATION	SW	SOUTH WEST
E	EAST	UP	UPPER
EX	EXTENSION	W	WEST
LR	LOWER	IN	INNER
ML	MALL	OF	OFF
N	NORTH	ON	ON
NE	NORTH EAST	OP	OVERPASS
NW	NORTH WEST	OT	OUTER
S	SOUTH		

Table 46: STREET_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	varchar2(15)	Street type in full text (eg. AVENUE, PARADE, STREET) This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Street type as an abbreviation (e.g. AV, PDE, ST), based on AS4590 road types, where applicable.	N	Y	-	-	NAME_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
DESCRIPTION	varchar2(15)	Street type as an abbreviation (e.g. AV, PDE, ST), based on AS4590 road types, where applicable.	N	N	-	-	DSCPN_AUT

Note: the usage of the code, name and description is intentional (i.e. full text street type is used for the code) due to the initial development of the model and the dependencies at the time of developing the integrated data model. Ideally this table should be changed, but there are no current plans to change due to the impact for users on changing the model.

Table 48: STREET_TYPE_AUT Codes

Note: the list of street types may not necessarily have roads in the T&T product. There are some additional street types not listed in the AS4590 (road abbreviations) that are due to the street types provided by the contributors.

Street Type Code	Description / Name	Street Type Code	Description / Name	Street Type Code	Description / Name
ACCESS	ACCS	FAIRWAY	FAWY	PROMENADE	PROM
ACRE	ACRE	FIREBREAK	FBRK	PURSUIT	PRST
AIRWALK	AWLK	FIRELINE	FLNE	QUAD	QUAD
ALLEY	ALLY	FIRETRACK	FTRK	QUADRANT	QDRT
ALLEYWAY	ALWY	FIRETRAIL	FITR	QUAY	QY
AMBLE	AMBL	FLAT	FLAT	QUAYS	QYS
APPROACH	APP	FLATS	FLTS	RAMBLE	RMBL
ARCADE	ARC	FOLLOW	FOLW	RAMP	RAMP
ARTERIAL	ARTL	FOOTWAY	FTWY	RANGE	RNGE
ARTERY	ARTY	FORD	FORD	REACH	RCH
AVENUE	AV	FORESHORE	FSHR	REEF	REEF
BANAN	BA	FORK	FORK	RESERVE	RES
BANK	BANK	FORMATION	FORM	REST	REST
BAY	BAY	FREEWAY	FWY	RETREAT	RTT
BEACH	BCH	FRONT	FRNT	RETURN	RTN
BEND	BEND	FRONTAGE	FRTG	RIDE	RIDE

Street Type Code	Description / Name	Street Type Code	Description / Name	Street Type Code	Description / Name
BOARDWALK	BWLK	GAP	GAP	RIDGE	RDGE
BOULEVARD	BVD	GARDEN	GDN	RIGHT OF WAY	ROFW
BOULEVARDE	BVDE	GARDENS	GDNS	RING	RING
BOWL	BOWL	GATE	GTE	RISE	RISE
BRACE	BR	GATEWAY	GWY	RISING	RSNG
BRAE	BRAE	GLADE	GLDE	RIVER	RVR
BRANCH	BRAN	GLEN	GLEN	ROAD	RD
BREAK	BRK	GRANGE	GRA	ROADS	RDS
BRETT	BRET	GREEN	GRN	ROADWAY	RDWY
BRIDGE	BDGE	GROVE	GR	ROTARY	RTY
BROADWALK	BRDWLK	GULLY	GLY	ROUND	RND
BROADWAY	BDWY	HARBOUR	HRBR	ROUTE	RTE
BROW	BROW	HAVEN	HVN	ROW	ROW
BULL	BULL	HEATH	HTH	ROWE	ROWE
BUSWAY	BSWY	HEIGHTS	HTS	RUE	RUE
BYPASS	BYPA	HIGHROAD	HIRD	RUN	RUN
BYWAY	BYWY	HIGHWAY	HWY	SERVICEWAY	SVWY
CAUSEWAY	CSWY	HIKE	HIKE	SHUNT	SHUN
CENTRE	CTR	HILL	HILL	SKYLINE	SKLN
CENTREWAY	CNWY	HILLS	HILLS	SLOPE	SLPE
CHASE	CH	HOLLOW	HLLW	SOUTH	STH
CIRCLE	CIR	HUB	HUB	SPUR	SPUR
CIRCLET	CLT	INLET	INLT	SQUARE	SQ
CIRCUIT	CCT	INTERCHANGE	INTG	STEPS	STPS
CIRCUS	CRCS	ISLAND	ID	STRAIGHT	STRT
CLOSE	CL	JUNCTION	JNC	STRAIT	STAI
CLUSTER	CLR	KEY	KEY	STRAND	STRA
COLONNADE	CLDE	KEYS	KEYS	STREET	ST
COMMON	CMMN	KNOLL	KNOL	STRIP	STRP

Street Type Code	Description / Name	Street Type Code	Description / Name	Street Type Code	Description / Name
COMMONS	CMMNS	LADDER	LADR	SUBWAY	SBWY
CONCORD	CNCD	LANDING	LDG	TARN	TARN
CONCOURSE	CON	LANE	LANE	TERRACE	TCE
CONNECTION	CNTN	LANEWAY	LNWY	THOROUGHFARE	THFR
COPSE	CPS	LEAD	LEAD	THROUGHWAY	THRU
CORNER	CNR	LEADER	LEDR	TOLLWAY	TLWY
CORSO	CSO	LINE	LINE	TOP	TOP
COURSE	CRSE	LINK	LINK	TOR	TOR
COURT	CT	LOOKOUT	LKT	TRACK	TRK
COURTYARD	CTYD	LOOP	LOOP	TRAIL	TRL
COVE	COVE	LYNNE	LYNN	TRAMWAY	TMWY
CRESCENT	CR	MALL	MALL	TRAVERSE	TVSE
CREST	CRST	MANOR	MANR	TRUNKWAY	TKWY
CRIEF	CRF	MART	MART	TUNNEL	TUNL
CROOK	CRK	MAZE	MAZE	TURN	TURN
CROSS	CRSS	MEAD	MEAD	TWIST	TWIST
CROSSING	CRSG	MEANDER	MNDR	UNDERPASS	UPAS
CRUISEWAY	CUWY	MEW	MEW	VALE	VALE
CUL-DE-SAC	CSAC	MEWS	MEWS	VALLEY	VLLY
CUT	CUT	MILE	MILE	VERGE	VERGE
CUTTING	CUTT	MOTORWAY	MTWY	VIADUCT	VIAD
DALE	DALE	NOOK	NOOK	VIEW	VIEW
DASH	DASH	NORTH	NTH	VIEWS	VWS
DELL	DELL	NULL	NULL	VILLA	VLLA
DENE	DENE	OUTLET	OTLT	VILLAGE	VLGE
DEVIATION	DE	OUTLOOK	OTLK	VILLAS	VLLS
DIP	DIP	OVAL	OVAL	VISTA	VSTA
DISTRIBUTOR	DSTR	PALMS	PLMS	VUE	VUE
DIVIDE	DIV	PARADE	PDE	WADE	WADE

Street Type Code	Description / Name	Street Type Code	Description / Name	Street Type Code	Description / Name
DOCK	DOCK	PARADISE	PRDS	WALK	WALK
DOMAIN	DOM	PARK	PARK	WALKWAY	WKWY
DOWN	DOWN	PARKWAY	PWY	WATERS	WTRS
DOWNS	DWNS	PART	PART	WATERWAY	WTWY
DRIVE	DR	PASS	PASS	WAY	WAY
DRIVEWAY	DVWY	PASSAGE	PSGE	WEST	WEST
EASEMENT	ESMT	PATH	PATH	WHARF	WHRF
EAST	EAST	PATHWAY	PWAY	WOOD	WD
EDGE	EDGE	PENINSULA	PSLA	WOODS	WDS
ELBOW	ELB	PIAZZA	PIAZ	WYND	WYND
END	END	PLACE	PL	YARD	YARD
ENTRANCE	ENT	PLAZA	PLZA		
ESPLANADE	ESP	POCKET	PKT		
ESTATE	EST	POINT	PNT		
EXPRESSWAY	EXP	PORT	PORT		
EXTENSION	EXTN	PRECINCT	PREC		

Table 47: SURFACE_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(2)	Surface type code (e.g. 1). This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of the surface type code e.g. Sealed.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the surface type code means.	N	N	-	-	DSCPN_AUT

Table 48: SURFACE_TYPE_AUT Codes

CODE	NAME	DESCRIPTION
1	Sealed	Surface comprises brick, concrete or tar.
2	Unsealed	Surface comprises material other than brick, concrete or tar, and is under a known maintenance regime.
3	Unknown	Default value. Use for roads under construction.
4	Unimproved	Surface comprises material other than brick, concrete or tar, and is not under a known maintenance regime.

CODE	NAME	DESCRIPTION
5	Boardwalk	A surface made from planks or sleepers, usually wood or a similar material. Water can usually drain between each plank or sleeper.

Table 49: CROSSING_POINT

Name	Data Type	Description	P	M	F K TABLE	F K Col	10 Ch Alias
CROSSING_POINT_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	CRSSNG_PNT
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
CAPTURE_DATE	date	Capture Date.	N	N	-	-	DT_CAPTURE
CROSSING_TYPE_CODE	number(5)	Crossing type code e.g. Bridge, Ford, Tunnel.	N	Y	CROSSING_TYPE_AUT	CODE	CRSSTYP_CD
CROSSING_NAME	varchar2(300)	Crossing name e.g. Bridge name.	N	N	-	-	NAME
CAPTURE_SOURCE_CODE	number(5)	Capture source code.	N	N	CAPTURE_SOURCE_AUT	CODE	SOURCE_CD
CAPTURE_METHOD_CODE	number(5)	Capture method code.	N	N	CAPTURE_METHOD_AUT	CODE	METHOD_CD
CROSSING_STRUCTURE_CODE	number(5)	Crossing structure code e.g. Suspension bridge.	N	N	CROSSING_STRUCTURE_AUT	CODE	STRUCT_CD
WEIGHT_LIMIT_TONNES	number(4)	The weight limit of vehicles in tonnes allowed on the structure.	N	N	-	-	WGHT_LMT_T
HEIGHT_LIMIT_METRES	number(3,1)	The height limit of vehicles in metres allowed.	N	N	-	-	HGHT_LMT_M
JURISDICTION_ID	varchar2(50)	Jurisdiction identifier.	N	N	-	-	JRSDCTN_ID
GEOMETRY	point	Point geometry.	N	Y	-	-	GEOMETRY

Table 50: CROSSING_STRUCTURE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(2)	Crossing structure code e.g. 1. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of the crossing structure code e.g. Arch.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the crossing structure code means.	N	N	-	-	DSCPN_AUT

Table 51: CROSSING_STRUCTURE_AUT Codes

CODE	NAME
0	Undetermined
1	Beam

CODE	NAME
2	Cantilever
3	Arch
4	Suspension
5	Cable-stayed
6	Truss
7	Drawbridge

Table 52: CROSSING_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(2)	Crossing type code e.g. 1. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of the crossing type code e.g. Bridge.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the crossing type code means.	N	N	-	-	DSCPN_AUT

Table 53: CROSSING_TYPE_AUT Codes

CODE	NAME	DESCRIPTION
1	Bridge	Structure erected over a depression or obstacle to carry traffic. Must be connected to the transport network.
2	Tunnel	An underground or underwater passage for a road connected to the transport network.
3	Ford	A shallow or flat portion of the bed of a watercourse or lake where crossing may be affected. Must be connected to the transport network.
4	Other	
5	Floodway	A section of road specifically designed to allow periodic or permanent inundation by water
6	Culvert	A masonry conduit which serves as a channel crossing for water or a transport network beneath a road or railway.

Table 54: TRAFFIC_CONTROL_DEVICE_POINT

Column	Datatype	Description	P	M	F K TABLE	F K Col	10 Ch Alias
TCD_POINT_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	TCD_PT_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
CAPTURE_DATE	date	Capture date.	N	N	-	-	DT_CAPTURE
TRAFFIC_CTL_TYPE_CODE	number(5)	Traffic control type code.	N	Y	TRAFFIC_CTL_TYPE_AUT	CODE	TCDTYP_CD

Column	Datatype	Description	P	M	F K TABLE	F K Col	10 Ch Alias
CAPTURE_SOURCE_CODE	number(5)	Capture source code.	N	N	CAPTURE_SOURCE_AUT	CODE	SOURCE_CD
CAPTURE_METHOD_CODE	number(5)	Capture method code.	N	N	CAPTURE_METHOD_AUT	CODE	METHOD_CD
JURISDICTION_ID	varchar2(50)	Jurisdiction identifier.	N	N	-	-	JRSDCTN_ID
GEOMETRY	point	Point geometry.	N	Y	-	-	GEOMETRY

Table 55: TRAFFIC_CTL_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(2)	Traffic control type code e.g. 1. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of the traffic control type code e.g. Traffic Light.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the traffic control type code means.	N	N	-	-	DSCPN_AUT

Table 56: TRAFFIC_CTL_TYPE_AUT Codes

CODE	NAME	DESCRIPTION
0	Other traffic control device	Any other traffic control device not covered by the above classifications.
1	Level Crossing	Intersection of a road and railway (compare BRIDGE). Possible link to RTA.
2	Traffic Light	Light mounted on or beside a road to control traffic flow. Captured as a single point at an intersection of two road segments. Link to RTA.
3	Permanent Barrier	A structure which cannot be temporarily modified by the general public to allow traffic to pass.
4	Roundabout	Road segment part of an intersection designed to allow smooth integration but also slow traffic. It must be circular or elliptical in design, have one-way flow, and in most cases not be uniquely named or have addresses on it. All roundabouts will be captured as points.
5	Toll	A structure used to facilitate the collection of money from traffic using the road.
6	Gate	A structure that may be swung, drawn or lowered to block an entrance or passageway. Can include bollards.
7	Stock Grid	Structure to prevent entrance or passageway of animals - does not generally stop vehicular traffic.
8	Fixed Speed Camera	A fixed speed camera used to monitor the speed of traffic on a road. Link to RTA.
9	Pedestrian Crossing	Markings or signals to help pedestrians cross a road, requiring traffic to slow.
10	Weighbridge	A facility for the weighing of loads on vehicles.

Table 57: ST_LN_XING_LNK

Column	Datatype	Description	P	M	F K TABLE	F K Col	10 Ch Alias
ST_LN_XING_LNK	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ST_LN_XNG_
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
STREET_LINE_PID	varchar2(15)	Street line persistent identifier.	N	Y	STREET_LINE	STREET_LINE_PID	ST_LNE_PID
CROSSING_POINT_PID	varchar2(15)	Crossing point persistent identifier.	N	Y	TRAFFIC_CONTROL_DEVICE_POINT	TCD_POINT_PID	CRSSNG_PNT

Table 58: ST_LN_TCD_LNK

Column	Datatype	Description	P	M	F K TABLE	F K Col	10 Ch Alias
ST_LN_TCD_LNK	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ST_LN_TCD_
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
STREET_LINE_PID	varchar2(15)	Street line persistent identifier.	N	Y	STREET_LINE	STREET_LINE_PID	ST_LNE_PID
TCD_POINT_PID	varchar2(15)	Crossing point persistent identifier.	N	Y	CROSSING_POINT	CROSSING_POINT_PID	CRSSNG_PNT

Table 59: TEMP_STREET_LINE_TRACK

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
STREET_LINE_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ST_LNE_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
CAPTURE_DATE	date	Date this record was captured.	N	N	-	-	DT_CAPTURE
STREET_NAME	varchar2(100)	Street name. e.g. "POPLAR".	N	Y	-	-	NAME
STREET_TYPE_CODE	varchar2(15)	Street type code e.g. CRESCENT.	N	N	STREET_TYPE_AUT	CODE	STTYP_CODE
STREET_SUBTYPE_CODE	number(5)	Street subtype code e.g. 2 = Dual Carriageway.	N	Y	STREET_SUBTYPE_AUT	CODE	SUBTYPE_CD

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
STREET_SUFFIX_CODE	varchar2(15)	Street suffix code e.g. W = WEST.	N	N	STREET_SUFFIX_AUT	CODE	STSFX_CODE
STREET_DIRECTION_CODE	number(5)	Street direction code e.g.1 = One way.	N	N	STREET_DIRECTION_AUT	CODE	DIRN_CD
AUTHORITY_CODE	number(5)	Authority code e.g.1 = State Authority.	N	N	AUTHORITY_AUT	CODE	AUTHRTY_CD
CAPTURE_SOURCE_CODE	number(5)	Capture source code e.g. 10 = State/Territory Topographic Mapping program.	N	N	CAPTURE_SOURCE_AUT	CODE	SOURCE_CD
CAPTURE_METHOD_CODE	number(5)	Capture method code e.g. 11 = Derived from cadastre.	N	N	CAPTURE_METHOD_AUT	CODE	METHOD_CD
NUMBER_OF_LANES_CODE	number(5)	Number of lanes code e.g. 1 = One.	N	N	NUMBER_OF_LANES_AUT	CODE	LANES_CD
OPERATIONAL_STATUS_CODE	number(2)	Operational status code e.g.2 = Under Construction.	N	N	OPERATIONAL_STATUS_AUT	CODE	STATUS_CD
SEASONALITY_CODE	number(1)	Seasonality code e.g. 1 - Subject to Seasonal Closure.	N	N	SEASONALITY_AUT	CODE	SEASONL_CD
TRANSPORT_HIERARCHY_CODE	number(5)	Transport hierarchy code e.g.302 = Arterial Road.	N	Y	TRANSPORT_HIERARCHY_AUT	CODE	THIER_CODE
SURFACE_TYPE_CODE	number(2)	Surface type code e.g.1 = Sealed.	N	Y	SURFACE_TYPE_AUT	CODE	SFTYP_CODE
GROUND_RELATIONSHIP_CODE	number(2)	Ground relationship code e.g.1 = Above Ground or On Bridge.	N	Y	GROUND_RELATIONSHIP_AUT	CODE	GRREL_CODE
TRAFFICABILITY_CODE	number(5)	Trafficability code e.g. 2 = Pedestrian traffic only.	N	N	TRAFFICABILITY_AUT	CODE	TRFFCBL_CD
USER_ACCESS_CODE	number(5)	User access code e.g. 2 = Authorised.	N	N	USER_ACCESS_AUT	CODE	ACCESS_CD
HEIGHT_LIMIT_METRES	number(3,1)	The height limit of vehicles in metres.	N	N	-	-	HGHT_LMT_M
SPEED_LIMIT_KMPH	number(3)	Speed limit in kilometres per hour.	N	N	-	-	SPD_LMT_KM
WEIGHT_LIMIT_TONNES	number(4)	The weight limit of vehicles in tonnes allowed on the structure.	N	N	-	-	WGHT_LMT_T
POSITIONAL_ACCURACY	number(8)	Positional accuracy in metres.	N	N	-	-	POS_ACC
JURISDICTION_ID	varchar2(16)	The jurisdiction identifier used for this street.	N	N	-	-	JRSDCTN_ID
STATE_PID	varchar2(15)	State or territory persistent identifier.	N	Y	STATE	STATE_PID	STATE_PID
GEOMETRY	line	Line geometry.	N	Y	-	-	GEOMETRY

Note: TEMP_STREET_LINE_TRACK table only exists for some jurisdictions and includes additional data that does not form part of the standard roads data supplied by contributors. The TEMP_STREET_LINE_TRACK data is not maintained.

HYDROLOGY

Table 62: HYDRO

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
HYDRO_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	HYDRO_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
HYDRO_NAME	varchar2(200)	Name given to the hydrology feature.	N	Y	-	-	HYDRO_NAME
HYDRO_NAME_LABEL	varchar2(200)	Name given to the hydrology feature in title case.	N	N	-	-	HYD_NAMLAB
HYDRO_CLASS_CODE	varchar2(15)	The hydrology class code. The code identifies the type of hydrology e.g. river.	N	Y	HYDRO_CLASS_AUT	CODE	HYDCLASSCD
HYDRO_STATUS_CODE	varchar2(15)	The hydrology status code. The code indicates the current status of feature e.g. planned new feature.	N	N	HYDRO_STATUS_AUT	CODE	HYD_STATCD
HYDRO_ORIGIN_CODE	varchar2(15)	The hydrology origin code. The code indicates if the feature is natural or man-made.	N	N	HYDRO_ORIGIN_AUT	CODE	HYD_ORIGCD
HYDRO_USE_CODE	varchar2(15)	The hydrology use code. The code indicates if the primary usage of	N	N	HYDRO_USE_AUT	CODE	HYD_USECD

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
		the feature e.g. water supply.					
PERENNIALITY_CODE	varchar2(15)	The perenniality code. The code indicates the perenniality of the feature.	N	N	PERENNIALITY_AUT	CODE	PERE_CODE
SOURCE_DATE_CREATED	date	Date this record was created by the data contributor.	N	N	-	-	SDT_CREATE
SOURCE_DATE_MODIFIED	date	Date this record was modified by the data contributor.	N	N	-	-	SDT_MODIFY
STATE_PID	varchar2(15)	The persistent identifier for the state or territory.	N	Y	STATE	STATE_PID	STATE_PID

Table 60: HYDRO_POINT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
HYDRO_POINT_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	HYD_PNTPID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
HYDRO_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	HYDRO	HYDRO_PID	HYDRO_PID
GEOMETRY	point	Point geometry.	N	Y	-	-	GEOMETRY

Table 61: HYDRO_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
HYDRO_LINE_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	HYD_LNEPID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
HYDRO_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	HYDRO	HYDRO_PID	HYDRO_PID
GEOMETRY	line	Line geometry.	N	Y	-	-	GEOMETRY

Table 62: HYDRO_POLYGON

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
HYDRO_POLYGON_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	HYD_PLYPID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
HYDRO_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	HYDRO	HYDRO_PID	HYDRO_PID
GEOMETRY	polygon	Polygon geometry.	N	Y	-	-	GEOMETRY

Table 63: HYDRO_ALIAS

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
HYDRO_ALIAS_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	HYD_ALPID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
HYDRO_PID	varchar2(15)	The persistent identifier from the HYDRO table.	N	Y	HYDRO	HYDRO_PID	HYDRO_PID
HYDRO_ALIAS_NAME	varchar2(200)	The hydrology alias name.	N	Y	-	-	HYD_ALNAM
HYDRO_ALIAS_TYPE_CODE	varchar2(15)	The persistent identifier for the state or territory.	N	Y	HYDRO_ALIAS_TYPE_AUT	CODE	HYD_ALTCD

Table 64: HYDRO_ALIAS_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	varchar2(15)	Hydro alias type code e.g. ALT. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(100)	Name of the hydro alias type code e.g. ALTERNATIVE.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(200)	Description of what the hydro alias type code means.	N	N	-	-	DESC_AUT

Table 65: HYDRO_ALIAS_TYPE_AUT codes

Code	NAME	DESCRIPTION
ALT	ALTERNATIVE	ALTERNATIVE NAME TO THE PRIMARY NAME.
SYN	SYNONYM	DIFFERENT NAME WITH ALMOST IDENTICAL OR SIMILAR MEANINGS.

Table 66: HYDRO_CLASS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	varchar2(15)	Hydro class code e.g. HYD001001. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(100)	Name of the hydro class code e.g. ALTERNATIVE.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(200)	Description of what the hydro class code means.	N	N	-	-	DESC_AUT
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
DATE_MODIFIED	date	Date this record was modified.	N	N	-	-	DT_MODIFY
PARENT_HYDRO_CLASS	varchar2(15)	Parent hydro class code e.g. HYD001.	N	N	-	-	PARCL_CD

Table 70: HYDRO_CLASS_AUT codes

Note: There is some duplication in codes, these will be either removed or changed in a future release.

Code	NAME	DESCRIPTION
HYD001	MARINE	FEATURES APPLICABLE TO THE SEA OR OCEAN.
HYD001001	OCEAN	MAJOR BODY OF SALINE WATER THAT IS A MAJOR DIVISION OF THE HYDROSPHERE.
HYD001002	SEA	MAJOR BODY OF SALINE WATER THAT IS A MINOR DIVISION OF THE HYDROSPHERE THAT IS MORE LIKELY TO BE NEARER TO LAND MASS. SMALLER DIVISION THAN OCEAN.
HYD001003	GULF	LARGE BAY THAT IS AN ARM OF AN OCEAN OR SEA.
HYD001004	STRAIT	NARROW PASSAGE CONNECTING TWO LARGER BODIES OF WATER. INCLUDES PASSAGE.
HYD001005	BAY	BODY OF SALINE WATER THAT IS SURROUNDED BY LAND ON THREE SIDES. INCLUDES INLET, SOUND, COVE.
HYD001006	ESTUARY	PARTLY ENCLOSED BODY OF WATER WITH ONE OR MORE RIVERS OR STREAMS FLOWING INTO IT AND A FREE CONNECTION TO OPEN SEA OR OCEAN.
HYD001007	LAGOON	SHALLOW BODY OF WATER SEPARATED FROM LARGER BODY OF WATER BY NARROW STRIP OF LAND, SAND BANKS, BARRIER ISLANDS OR REEFS. SOMETIMES REFERRED TO A SMALL FRESHWATER OR SALTWATER LAKE.

Code	NAME	DESCRIPTION
HYD002	COASTLINE	THE LINE WHERE LAND AND WATER MEET. INCLUDES SHORELINE, SEASHORE, TIDAL LINE.
HYD002001	COASTLINE JUNCTION	ARTIFICIAL LINEAR FEATURE USED TO SEPARATE ADJACENT WATER FEATURES THAT MEET. INCLUDES SHORELINE JUNCTION.
HYD002002	ISLAND	LAND MASS SURROUNDED BY WATER. INCLUDES ISLE OR ISLET.
HYD002002001	ISLAND MARINE	LAND MASS OFFSHORE AND SURROUNDED BY WATER SUCH AS A SEA OR OCEAN.
HYD002002002	ISLAND TERRESTRIAL	INLAND LAND MASS SURROUNDED BY WATER SUCH AS A LAKE OR RIVER. INCLUDES EYOT.
HYD003	WATER POINT	GENERALLY A SMALL WATER FEATURE THAT IS REPRESENTED AS A POINT.
HYD003001	SPRING	FLOW OF WATER ISSUING NATURALLY OUT OF THE GROUND, EITHER CONTINOUSLY OR INTERMITTENTLY. INCLUDES POOL SPRING, SEEP.
HYD003001001	HOT SPRING	SPRING WITH HOT WATER FROM GROUND. INCLUDES THERMAL SPRING.
HYD003001002	MINERAL SPRING	SPRING WHICH CONTAINS A NOTICEABLE QUANTITY OF MINERAL MATTER IN SOLUTION.
HYD003002	WATERFALL	SUDDEN DESCENT OF WATER OVER A STEP IN THE BED OF A WATERCOURSE. INCLUDES FALLS, CATARACT, CASCADE.
HYD003003	RAPIDS	PORTION OF WATERCOURSE WITH ACCELERATED CURRENT WHERE IT DESCENDS RAPIDLY WITHOUT A BREAK IN THE SLOPE OF THE BED.
HYD003004	SOAK	DAMP OR SWAMPY SPOTS USUALLY AROUND THE BASE OF GRANITE ROCKS OR BY DRY WATERCOURSE.
HYD004	WATER AREA	AREA SUBJECT TO WATER PERMANENTLY OR INTERMITTENTLY.
HYD004001	WATERBODY	A STANDARD BODY OF INLAND WATER. ANY BODY OF INLAND WATER OF WHICH THE FLOW IS MINOR.
HYD004001001	LAKE	BODY OF FRESH OR SALT WATER, NATURAL OR ARTIFICAL, ENCLOSED OR NEARLY ENCLOSED BY LAND. INCLUDES LOUGH, LOCH.
HYD004001002	DAM	BODY OF WATER CREATED BY STRUCTURE MADE OF EARTH, MASONRY ETC. BUILT ACROSS A WATERCOURSE TO IMPOUND WATER FOR ANY PURPOSE.
HYD004001003	BILLABONG	GENERALLY A RIVER BRANCH THAT FORMS A BACKWATER OR STAGNANT POOL.
HYD004001004	OXBOW LAKE	LAKE FORMS WHEN MEANDERING RIVER ALMOST FORMS A COMPLETE CIRCLE, CUTS ACROSS NECK OF LAND BETWEEN TWO STRETCHES AND LEAVES BACKWATER THAT SILTS UP OVER TIME TO FORM LAKE.
HYD004001005	POOL	SMALL BODY OF STILL OR STANDING WATER. OFTEN IN BED OF INTERMITTENT RIVER OR STREAM AND SOMETIMES SPRING FED, CHIEFLY ONE OF NATURAL FORMATION.
HYD004001006	WATERHOLE	NATURAL HOLE OR HOLLOW CONTAINING WATER, OFTEN IN DRY BED OF AN INTERMITTENT RIVER OR SPRING IN DESERT. INCLUDES HOLE.
HYD004001007	NATIVE WELL	NATURAL SPRING OR SMALL POOL FED FROM SPRING OR SOAK AND SOMETIMES IMPROVED BY ABORIGINES.
HYD004001008	POND	NATURAL OR ARTIFICIAL SMALL BODY OF STILL WATER.
HYD004001009	RESERVOIR	ARTIFICIAL LAKE FOR STORAGE, REGULATION AND CONTROL OF WATER FOR DOMESTIC OR OTHER USE. INCLUDES SERVICE BASIN.

Code	NAME	DESCRIPTION
HYD004001010	SALT LAKE	LANDLOCKED BODY OF WATER WITH CONCENTRATIONS OF SALTS AND OTHER DISSOLVED MINERALS SIGNIFICANTLY HIGHER THAN MOST LAKES.
HYD004001011	CLAY PAN	SHALLOW DEPRESSION THAT IS GENERALLY CIRCULAR IN OUTLINE WITH VARYING DIAMETER FROM A FEW TO SEVERAL HUNDRED METRES. FLOORED WITH CLAY, BARE OF VEGETATION AND HOLDING WATER FOR A TIME AFTER RAINFALL.
HYD004001012	ROCK HOLE	HOLE EXCAVATED IN SOLID ROCK BY WATER ACTION. INCLUDES GNAMMA HOLE.
HYD004001013	ANABRANCH	
HYD004001014	ARM	
HYD004001015	BACKWATER	
HYD004001016	BASIN	
HYD004001017	BATH	
HYD004001018	BEND	
HYD004001019	BIGHT	
HYD004001020	BOG	
HYD004001021	BREAK	
HYD004001022	BROADWATER	
HYD004001023	CLAYPAN	
HYD004001024	COVE	
HYD004001025	COWAL	
HYD004001026	CUTTING	
HYD004001027	ENTRANCE	
HYD004001028	ESCAPE	
HYD004001029	GULLY	
HYD004001030	HAVEN	
HYD004001031	HOLE	
HYD004001032	HOLES	
HYD004001033	HOLLOW	
HYD004001034	INLET	
HYD004001035	LAGOONS	
HYD004001036	LAKES	

Code	NAME	DESCRIPTION
HYD004001037	MOUTH	
HYD004001038	NARROWS	
HYD004001039	PASSAGE	
HYD004001040	PONDS	
HYD004001041	REACH	
HYD004001042	REGULATOR	
HYD004001043	RIVULET	
HYD004001044	ROADSTEAD	
HYD004001045	STORAGE	
HYD004001046	TANK	
HYD004001047	TANKS	
HYD004001048	TARN	
HYD004001049	WARRAMBOOL	
HYD004001050	WATER	
HYD004001051	WATERHOLES	
HYD004001052	WATERS	
HYD004001053	WATERWAY	
HYD004002	WETLAND	NORMALLY A VEGETATED AREA WHICH IS INUNDATED OR SATURATED WITH WATER.
HYD004002001	SWAMP	TRACT OF LOW-LYING LAND THAT IS PERMANENTLY SATURATED WITH MOISTURE AND USUALLY OVERGROWN WITH VEGETATION.
HYD004002002	MARSH	TRACT OF LOW LYING VEGETATED LAND FLOODED AT TIMES. INCLUDES SALT MARSH. INCLUDES REED BED.
HYD004002003	MANGROVE	FOREST AREA IN SALINE COASTAL WATERS.
HYD004003	FLAT	LEVEL TRACT OF LAND WHICH MAY BE SUBJECT TO INUNDATION ON A REGULAR OR IRREGULAR BASIS.
HYD004003001	LAND SUBJECT TO INUNDATION	AREA OF LAND WHICH INTERMITTENTLY INUNDATED WITH WATER.
HYD004003002	SALT PAN	HOLLOW FORMERLY CONTAINING WATER, IN WHICH A DEPOSIT OF SALT IS LEFT BEHIND RESULTING FROM EVAPORATION OF WATER.
HYD004003003	TIDAL FLAT	LARGE AREA OF NEAR LEVEL LAND, USUALLY MUD, COVERED AT HIGH WATER AND ATTACHED TO SHORE.
HYD004003004	FLOODPLAIN	LEVEL TRACT OF LAND ADJACENT TO WATERCOURSE THAT STRETCHES FROM BANKS OF WATERCOURSE TO BASE OF HIGHER GROUND AND EXPERIENCES FLOODING DURING PERIODS OF HIGH DISCHARGE.

Code	NAME	DESCRIPTION
HYD005	WATERCOURSE	COURSE OF RUNNING WATER, SUCH AS A RIVER, STREAM, CREEK OR A BROOK. ALSO CAN BE AN ARTIFICIAL CHANNEL FOR CONVEYANCE OF WATER.
HYD005001	RIVER	COURSE OF RUNNING FRESH WATER THAT PART OF YEAR LARGER THAN BROOK OR CREEK AND FLOWS IN NATURAL CHANNEL CONFINED WITHIN BANKS. FLOWS INTO SEA OR LAKE OR ANOTHER RIVER. CAN BE SERIES OF WATERHOLES DURING DRY SEASON. MINIMUM LENGTH IS APPROX. 16 KM.
HYD005002	STREAM	COURSE OF RUNNING WATER.
HYD005003	CREEK	SMALL COURSE OF RUNNING WATER.
HYD005004	BROOK	COURSE OF RUNNING WATER GENERALLY SMALLER THAN A RIVER OR CREEK. USUALLY A PRIMARY WATERCOURSE NOT FORMED BY TRIBUTARIES.
HYD005005	TRIBUTARY	WATERCOURSE THAT IS GENERALLY A STREAM OR RIVER THAT FLOWS INTO A MAIN STEM (OR PARENT) WATERCOURSE OR WATERBODY.
HYD005006	CHANNEL	ARTIFICIAL OR NATURAL WATERCOURSE USED FOR IRRIGATION, DRAINAGE OR AS A WATERWAY.
HYD005006001	AQUADUCT	CONDUIT OR ARTIFICIAL CHANNEL FOR CONDUCTING WATER FROM PLACE TO PLACE. INCLUDES FLUME.
HYD005006002	CANAL	ARTIFICIAL WATERCOURSE USED FOR IRRIGATION OR WATERCRAFT.
HYD005006003	DRAIN	ARTIFICIALLY CONTRUCTED WATERCOURSE DESIGNED FOR PURPOSE OF REMOVING SURPLUS WATER FROM LAND SURFACE. INLCUDES CULVERT, WATER RACE.
HYD005007	CONNECTOR	ARTIFICIAL LINE REPRESENTATION THAT PROVIDES A CONNECTOR TO JOIN TWO WATERCOURSES THROUGH A WATER AREA.
HYD005008	WATER CATCHMENT	ELEVATED BOUNDARY LINE SEPARATING THE HEADSTREAMS. INCLUDES BASIN, WATERSHED.
HYD005009	DELL	
HYD005010	DINGLE	
HYD005011	EXTENSION	
HYD005012	FALLS	
HYD005013	GORGE	
HYD005014	GULCH	
HYD005015	GULLIES	
HYD005016	GUTTER	
HYD005017	MACORNA CHANNEL	
HYD005018	OVERFLOW	
HYD005019	RAVINE	
HYD005020	RILL	
HYD005021	RUN	
HYD005022	SPRINGS	

Code	NAME	DESCRIPTION
HYD005023	SYPHON	
HYD005024	BRANCH	
HYD005025	CUT	
HYD006	WATER STRUCTURE	COMMONLY A MAN-MADE STRUCTURE FORMING PART OF A WATERCOURSE OR OTHER WATER FEATURE. CAN ALSO BE A NATURAL STRUCTURE.
HYD006001	DAM WALL	LARGE MAN MADE STRUCTURE OF EARTH, MASONRY ETC. BUILT ACROSS A WATERCOURSE. INCLUDES SYPHON.
HYD006002	LOCK	STRETCH OF WATERCOURSE ENCLOSED BY GATES FITTED WITH SLUICES TO ENABLE CRAFT TO BE RAISED FROM ONE WATER LEVEL TO ANOTHER.
HYD006003	WEIR	DAM ACROSS A WATERCOURSE OVER WHICH WATER IS ALLOWED TO FLOW, ALTHOUGH IT RAISES THE WATER LEVEL.
HYD006004	SPILLWAY	CONSTRUCTED PATH OR CHANNEL FOR EXCESS WATER OR CONTROL OF WATER TO PASS OVER OR BESIDE A DAM. INCLUDES FLOOD GATE, SLUICE GATE, PENSTOCK.
HYD006005	TANK WATER	TANK FOR THE STORAGE OF WATER INTENDED AS A WATER SUPPLY.
HYD006006	HARBOUR	NATURAL OR ARTIFICIALLY IMPROVED WATERBODY PROVIDING PROTECTION FOR VESSELS. INCLUDES HAVEN, ROADSTEAD, ENTRANCE.
HYD006007	PORT	PLACE PROVIDED WITH TERMINAL AND TRANSFER FACILITIES FOR LOADING AND DISCHARGING CARGO OR PASSENGERS.
HYD006007001	CARGO TERMINAL	FACILITY FOR HANDLING CARGO BETWEEN WATER VESSELS AND OTHER TRANSPORT VEHICLES.
HYD006007002	CONTAINER TERMINAL	FACILITY WHERE CARGO CONTAINERS ARE TRANSHIPPED BETWEEN DIFFERENT TRANSPORT VEHICLES.
HYD006007003	PASSENGER TERMINAL	FACILITY FOR HANDLING PASSENGERS OF WATER VESSELS.
HYD006008	ANCHORAGE	STRUCTURE FOR SECURING WATER VESSEL. INCLUDES MOORING.
HYD006008001	WHARF	PLATFORM FOR WATER VESSELS MAY BE SECURED FOR LOADING OR UNLOADING CARGO OR PASSENGERS.
HYD006008002	DOCK	ARTIFICIALLY ENCLOSED WATERBODY WHERE SHIPS LOADED, UNLOADED OR REPAIRED. INCLUDES SHIPYARD, DRY DOCK, WET DOCK OR SLIPWAY.
HYD006008003	JETTY	STRUCTURE USUALLY OF STONE OR TIMBER PROJECTING INTO WATER.
HYD006008004	PIER	LONG NARROW STRUCTURE EXTENDING INTO WATER TO AFFORD BERTHING PLACE FOR VESSELS.
HYD006008005	MARINA	PROTECTED AREA PROVIDED WITH BERTHING AND SHORE FACILITIES PARTICULARLY FOR YACHTS AND OTHER PLEASURE CRAFT.
HYD006009	WATER TREATMENT	FACILITY FOR TREATMENT OF WATER FOR DOMESTIC, AGRICULTURAL OR INDUSTRIAL PURPOSES.
HYD006010	PONDAGE	AREAS OF SHALLOW WATER WITH WALLS OR BANKS CREATED FOR A SPECIFIC PURPOSE. INCLUDES AERATION BEDS, COOLING PONDS, FILTRATION BEDS, SETTLING PONDS.
HYD006011	BREAKWATER	NATURAL OR ARTIFICIAL STRUCTURE ALONG COAST CAPABLE OF CHECKING FORCE OF WAVES, THEREBY REDUCING BEACH EROSION OR SHELTERING VESSELS FROM ROUGH SEAS.
HYD006012	LAUNCHING RAMP	NATURAL OR ARTIFICIAL STRUCTURE FOR ENTRY OR RETRIEVAL OF WATERCRAFT INTO WATER. COMMONLY USED BY TRAILERED WATERCRAFT. INCLUDES BOAT RAMP.

Code	NAME	DESCRIPTION
HYD006013	WELL	HOLE OR PIT DUG IN GROUND TO OBTAIN WATER.
HYD006014	BORE	DEEP VERTICAL HOLE OF SMALL DIAMETER MADE TO OBTAIN WATER OR ASCERTAIN NATURE OF UNDERLAYING STRATA.
HYD006015	LEVEE	EMBANKMENT BUILT TO CONFINE A WATERCOURSE WITHIN ITS BED. ALSO CAN BE A BROAD LOW RIDGE OF ALLUVIUM FORMED AT TIME OF FLOOD ON SIDE OF RIVER OR STREAM.
HYD006016	RIVER GAUGE	PORTION OF WATERCOURSE WITH ACCELERATED CURRENT WHERE IT DESCENDS RAPIDLY WITHOUT A BREAK IN THE SLOPE OF THE BED.
HYD006017	WATERING PLACE	LOCATION TO ACCESS WATER NORMALLY FOR CONSUMPTION BY HUMANS OR ANIMALS.
HYD006018	PIPELINE	TUBE OF WOOD, METAL, CONCRETE ETC. FOR THE CONVEYANCE OF WATER. INCLUDES SIPHON, CONDUIT.
HYD006018001	PIPELINE - ABOVE GROUND	PIPE FOR CONVEYANCE OF WATER THAT IS POSITIONED ABOVE GROUND LEVEL.
HYD006018002	PIPELINE - BELOW GROUND	PIPE FOR CONVEYANCE OF WATER THAT IS POSITIONED BELOW GROUND LEVEL.
HYD007	WATER NAVIGATION	FEATURE IMPORTANT IN NAVIGATING WATER SAFELY.
HYD007001	REEF	RIDGE OF ROCKS OR CORAL LYING NEAR THE SURFACE OF WATERBODY. MAY BE VISIBLE AT LOW TIDE, BUT USUALLY COVERED BY WATER.
HYD007002	BEACON	A FIXED SIGNAL, MARK OR LIGHT AND ASSOCIATED FACILITIES ERECTED FOR THE GUIDANCE OF MARINERS OR AIRPLANE PILOTS.
HYD007002001	AERONAUTICAL BEACON	BEACON SPECIFICALLY FOR PROVIDING NAVIGATION TO AIRCRAFT.
HYD007002002	CHANNEL LIGHT	LIGHT BEACON FOR NAVIGATING WITHIN A CHANNEL.
HYD007002003	CHANNEL MARKER	MARKER OR SIGNAL FOR NAVIGATING WITHIN A CHANNEL.
HYD007002004	LIGHTHOUSE	DISTINCTIVE STRUCTURE ON OR OFF COAST, EXHIBITING A MAJOR LIGHT DESIGNED TO SERVE AS AN AID IN NAVIGATION.
HYD007002005	NAVIGATION LIGHT	LIGHTED AID FOR NAVIGATION.
HYD007002006	RADIO BEACON	RADIO NAVIGATION BEACON. INCLUDES VOR BEACON.
HYD007003	BUOY	A FLOAT MOORED OR ANCHORED IN WATER.
HYD007004	ROCK	AN ISOLATED ROCK FORMATION OR MONOLITH PROTRUDING THROUGH WATER.
HYD007005	WRECK	A WRECKED VESSEL, EITHER SUBMERGED OR VISIBLE, WHICH IS ATTACHED TO OR FOUL OF THE BOTTOM OR CAST UP ON THE SHORE.
HYD007006	SHOAL	RIDGE OF SAND OR ROCKS JUST BELOW SURFACE OF WATER THAT IS DANGEROUS TO WATER VESSELS.

Table 67: HYDRO_ORIGIN_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	varchar2(15)	Hydro origin code e.g. N. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(100)	Name of the hydro origin code e.g. NATURAL.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(200)	Description of what the hydro origin code means.	N	N	-	-	DESC_AUT

Table 68: HYDRO_ORIGIN_AUT Codes

Code	NAME	DESCRIPTION
U	UNKNOWN	ORIGIN OF FEATURE UNKNOWN OR NOT PROVIDED.
N	NATURAL	A FEATURE THAT IS MOSTLY OR WHOLLY OF NATURAL ORIGIN.
M	MAN-MADE	A FEATURE THAT IS MOSTLY OR WHOLLY OF MAN-MADE ORIGIN.

Table 69: HYDRO_USE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	varchar2(15)	Hydro use code e.g. 3. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(100)	Name of the hydro use code e.g. WATER SUPPLY.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(200)	Description of what the hydro use code means.	N	N	-	-	DESC_AUT

Table 70: HYDRO_USE_AUT Codes

Code	NAME	DESCRIPTION
0	UNKNOWN	PRIMARY USE OF FEATURE IS NOT KNOWN.
1	DRAINAGE	PRIMARY USE OF FEATURE IS FOR DRAINAGE.
2	IRRIGATION	PRIMARY USE OF FEATURE IS FOR IRRIGATION.
3	WATER SUPPLY	PRIMARY USE OF FEATURE IS AS A WATER SUPPLY.
4	FLOOD CONTROL	PRIMARY USE OF FEATURE IS FOR FLOOD CONTROL.
5	SALT EVAPORATION	PRIMARY USE OF FEATURE IS FOR SALT EVAPORATION.
6	SEWERAGE	PRIMARY USE OF FEATURE IS FOR SEWERAGE.
7	TAILING DAM	PRIMARY USE OF FEATURE IS FOR TAILING DAM.
8	COOLING PONDS	PRIMARY USE OF FEATURE IS FOR COOLING PONDS.
9	RECREATION	PRIMARY USE OF FEATURE IS FOR RECREATION.

Table 71: HYDRO_STATUS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	varchar2(15)	Hydro status code e.g. 3. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(100)	Name of the hydro status code e.g. WATER SUPPLY.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(200)	Description of what the hydro status code means.	N	N	-	-	DESC_AUT

Table 72: HYDRO_STATUS_AUT Codes

Code	NAME	DESCRIPTION
0	UNKNOWN	
1	OPERATIONAL	
2	UNDER CONSTRUCTION	
3	DISUSED	
4	CLOSED	
5	PROPOSED	
6	NOTIONAL	

Table 73: PERENNIALITY_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(2)	Perenniality code e.g. 1. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of the perenniality code e.g. Perennial.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(500)	Description of what the perenniality code means.	N	N	-	-	DSCPN_AUT

Table 74: PERENNIALITY_AUT Codes

Code	DESCRIPTION	NAME
P	PERENNIAL	A WATERCOURSE OR WATERBODY, WHICH NORMALLY CONTAINS WATER FOR THE WHOLE YEAR, EXCEPT DURING UNUSUALLY DRY PERIODS. A GENERAL CRITERIA USED FOR CLASSIFICATION IS THAT WATER IS PRESENT FOR AT LEAST NINE YEARS OUT OF TEN YEARS.
I	INTERMITTENT	A WATERCOURSE OR WATERBODY WHICH NORMALLY CONTAINS WATER FOR SEVERAL MONTHS OF THE YEAR, EXCEPT DURING UNUSUALLY DRY PERIODS.
D	DRY	A WATERCOURSE OR WATERBODY WHICH RARELY CONTAINS WATER, EXCEPT FOR SHORT PERIODS NOT RELATED TO SEASONS.
U	UNKNOWN	INDICATES THAT THE PERENNIALITY OF A WATER FEATURE IS INDETERMINATE AND/OR NOT APPLICABLE.

GREENSPACE

Table 79: GREENSPACE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
GREENSPACE_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	GS_PID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
GREENSPACE_NAME	varchar2(200)	The name of the greenspace.	N	Y	-	-	GS_NAME
GREENSPACE_NAME_LABEL	varchar2(200)	Name given to the greenspace feature in title case.	N	Y	-	-	GS_NAMLAB
GREENSPACE_CLASS_CODE	varchar2(15)	The greenspace class code. eg. OPS007.	N	Y	GREENSPACE_CLASS_AUT	CODE	GSCLASSCD
SOURCE_DATE_CREATED	date	Date this record was created by the data contributor.	N	N	-	-	SDT_CREATE
SOURCE_DATE_MODIFIED	date	Date this record was modified by the data contributor.	N	N	-	-	SDT_MODIFY
STATE_PID	varchar2(15)	State or territory persistent identifier.	N	Y	-	-	STATE_PID

Table 75: GREENSPACE_POINT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
GREENSPACE_POINT_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	GS_PNTPID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
GREENSPACE_PID	varchar2(15)	Greenspace persistent identifier.	N	Y	GREENSPACE	GREENSPACE_PID	GS_PID

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
PROCESS_TYPE_CODE	varchar2(15)	Process type code.	N	N	GREENSPACE_PROCESS_TYPE_AUT	CODE	PRC_TYP_CD
GEOMETRY	point	Point geometry.	N	Y	-	-	GEOMETRY

Table 76: GREENSPACE_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
GREENSPACE_LINE_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	GS_LNEPID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
GREENSPACE_PID	varchar2(15)	Greenspace persistent identifier.	N	Y	GREENSPACE	GREENSPACE_PID	GS_PID
PROCESS_TYPE_CODE	varchar2(15)	Process type code.	N	N	GREENSPACE_PROCESS_TYPE_AUT	CODE	PRC_TYP_CD
GEOMETRY	line	Line geometry.	N	Y	-	-	GEOMETRY

Table 77: GREENSPACE_POLYGON

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
GREENSPACE_POLYGON_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	GS_PLYPID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
GREENSPACE_PID	varchar2(15)	Greenspace persistent identifier.	N	Y	GREENSPACE	GREENSPACE_PID	GS_PID
PROCESS_TYPE_CODE	varchar2(15)	Process type code.	N	N	GREENSPACE_PROCESS_TYPE_AUT	CODE	PRC_TYP_CD
GEOMETRY	polygon	Polygon geometry.	N	Y	-	-	GEOMETRY

Table 78: GREENSPACE_ALIAS

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
GREENSPACE_ALIAS_PID	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	GS_ALPID
DATE_CREATED	date	Date this record was created.	N	Y	-	-	DT_CREATE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
DATE_RETIRED	date	Date this record was retired.	N	N	-	-	DT_RETIRE
GREENSPACE_PID	varchar2(15)	Greenspace persistent identifier.	N	Y	GREENSPACE	GREENSPACE_PID	GS_PID
GREENSPACE_ALIAS_NAME	varchar2(200)	The greenspace alias name.	N	N	-	-	GS_ALNAME
GREENSPACE_ALIAS_TYPE_CODE	varchar2(15)	The code for the type of alias.	N	Y	GREENSPACE_ALIAS_TYPE_AUT	CODE	GS_ALTCD

Table 79: GREENSPACE_ALIAS_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(4)	Greenspace alias type code. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of the greenspace alias type code e.g. PARK.	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the greenspace alias type code means.	N	N	-	-	DSCPN_AUT

Table 80: GREENSPACE_ALIAS_TYPE_AUT Codes

Code	NAME	DESCRIPTION
ALT	ALTERNATIVE	ALTERNATIVE NAME FOR THE FEATURE
HIS	HISTORICAL	PREVIOUSLY USED COMMON NAME FOR FEATURE

Table 81: GREENSPACE_CLASS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
CODE	number(4)	Greenspace class code. This is the persistent identifier.	Y	Y	-	-	CODE_AUT
NAME	varchar2(50)	Name of the greenspace class code e.g. ALTERNATIVE	N	Y	-	-	NAME_AUT
DESCRIPTION	varchar2(254)	Description of what the greenspace class code means.	N	N	-	-	DSCPN_AUT

Table 82: GREENSPACE_CLASS_AUT Codes

Code	NAME	DESCRIPTION
BDG007002	ARBORETUM	
LMU001003	ORCHARD	

Code	NAME	DESCRIPTION
LMU001004	PLANTATION	
LMU001005	VINEYARD	
LMU001006	NURSERY	PLANT, GARDEN OR HORTICULTURE FACILITY
LMU002001	CAMP GROUND	
LMU002002	CARAVAN PARK	
LMU006	RECREATIONAL RESOURCE	
LMU006001	OUTDOOR THEATRE	INCLUDES AMPHITHEATRE, OUTDOOR THEATRE, DRIVE-IN THEATRE
LMU006008	GRANDSTAND	
LMU006009	GROUP CAMP	
LMU006011	OFF ROAD VEHICLE AREA	
LMU006012	PICNIC AREA	PICNIC SITE OR AREA
LMU006013	PLAYGROUND	
LMU006016	SKATE PARK	
LMU007	RESERVE	
LMU007002	BIOSPHERE RESERVE	
LMU007003	CEMETERY	
LMU007005	COASTAL RESERVE	
LMU007006	CONSERVATION PARK	
LMU007007	GAME RESERVE	
LMU007008	GARDENS	GARDENS OR BOTANIC GARDEN
LMU007009	HISTORIC RESERVE	
LMU007010	INDIGENOUS PROTECTED AREA	
LMU007011	KARST CONSERVATION RESERVE	
LMU007012	AQUATIC RESERVE	MARINE PARK OR AQUATIC RESERVE
LMU007013	NATIONAL PARK	
LMU007014	PARK	
LMU007015	PROTECTED AREA	
LMU007016	RAMSAR WETLANDS AREA	
LMU007017	FOREST RESERVE	STATE FOREST OR FOREST RESERVE
LMU007018	WILDERNESS AREA	WILDERNESS PARK OR AREA

Code	NAME	DESCRIPTION
LMU007019	ZOO	ZOO OR ZOOLOGICAL GARDEN
LMU007021	WILDLIFE SANCTUARY	
LMU007022	OPEN SPACE	
LMU008002	ATHLETIC FIELD	ATHLETIC FIELD OR TRACK
LMU008005	BOWLING GREEN	
LMU008006	CROQUET GREEN	
LMU008007	DOG TRACK	DOG OR GREYHOUND TRACK
LMU008009	GOLF COURSE	
LMU008010	GOLF DRIVING RANGE	
LMU008012	HOCKEY GROUND	
LMU008013	HORSE TRACK	
LMU008014	MOTOR TRACK	RACETRACK
LMU008015	NETBALL COURT	
LMU008016	OVAL	INCLUDES CRICKET GROUND
LMU008017	RACECOURSE	
LMU008020	SOCCER FIELD	
LMU008023	SPORTS GROUND	SPORTS GROUND OR FIELD, PLAYING FIELD
LMU008027	TENNIS COURT	
LMU008028	TRAINING TRACK	
LMU008029	CYCLING TRACK	VELODROME OR CYCLING TRACK
LSI003004	GRAVE	