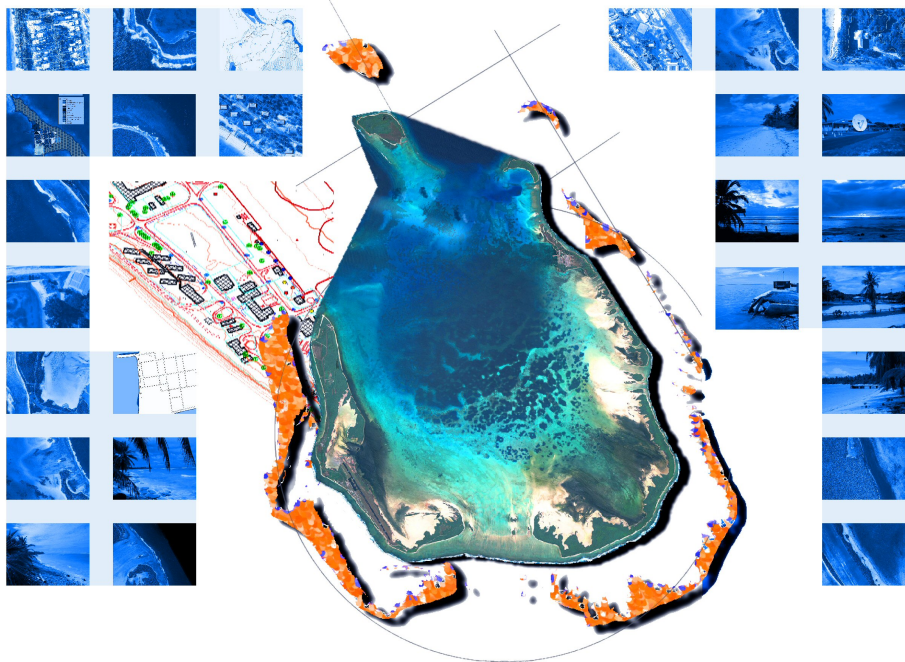


Cocos (Keeling) Islands Geographic Information System System Documentation

June 2009 Release



Australian Government
Attorney-General's Department
Geoscience Australia

Cocos (Keeling) Islands
Geographic Information System
System Documentation

**Prepared for
Territories Office,
Commonwealth Attorney-General's Department**

by Keith Porritt and others
GEOSCIENCE AUSTRALIA

June 2009



Australian Government

Attorney-General's Department

Geoscience Australia

GA Catalogue #61840

Disclaimer

The data in this GIS were assembled by the Mineral Resources and Advice Project of Geoscience Australia (GA). In compiling the product, GA has translated and integrated data as received from many other sources. GA has undertaken initial checks as to the accuracy or completeness of these externally supplied datasets and the result of these examinations are reported throughout this documentation manual.

It should be noted that the Cocos GIS datasets may contain information that is not totally accurate or complete. Therefore you should not rely solely on the information in this GIS when making a commercial decision. Please read the accompanying documentation and where further information is required please contact:

Eddie West
Territories Office Perth,
Department of Transport and Regional Services.
PO BOX Z5048, Perth, 6831
Ph: (08) 9225-1404
Fax: (08) 9225-1419

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Acknowledgments

Cocos GIS Team

The Mineral Resources and Advice Project of Geoscience Australia would like to acknowledge the support of Ms. Debra Blaskett and Mr. Peter Lawler of Territories Office whose efforts made the undertaking of this work possible.

A number of people from GA contributed to the Cocos (Keeling) Islands GIS. Jane Bryan processed the satellite imagery and utilities data, projected the data to UTM(WGS84) and provided documentation updates. Martin Sholtez developed a substantial proportion of the HTML documentation and contributed data edits and documentation for a number of datasets. Dr. William McKay provided management support and advice and reviewed the 2001 release of this documentation. Neal Evans advised on and checked data and documentation issues. Geoff Lawford contributed quality assurance and quality control checks.

Through this team effort valuable spatial and attribute data, that over time may have become lost, are now readily accessible in one integrated system.

Cocos GIS Data

Data capture was commissioned by Territories Office in a variety of projects over the last fifteen years for all data sets except for the November 2003 satellite image which is from the Department of Environment and Heritage under a limited multi-user licence:

LandInfo Canberra generated orthophotography from aerial photography flown by the Australian Survey Office Canberra on 5-Apr-87.

The Australian Land Information Group (AUSLIG) digitised cultural and topographic themes for the Cocos (Keeling) Islands at both Canberra and Western Region offices in the early 1990's on behalf of Territories Office.

The National Capital Planning Authority (NCPA) was commissioned by the Commonwealth Government to carry out a planning study that assembled the *Land Use Plan and Planning Scheme* data dated February 1992.

The Western Australian Department of Lands Administration (DoLA) extracted the cadastre snapshot packaged on this CD-ROM set from the DoLA database on 30-Dec-99. Responsibility for the cadastral information passed from AUSLIG to DOLA in 1992. On-going maintenance of cadastre is undertaken by DLI under a Memorandum of Arrangement with Territories Office.

AUSLIG, DOLA and the Australian Valuation Office (AVO) jointly developed data underpinning the March 1996 ground audit of Cocos (Keeling) Islands through Australian Estate Management (AEM) as consultants to Territories Office.

Environment Australia is the custodian of the marine environment data referred to as *Environment Australia (1998) Whelans Cocos GIS (1998)*. A separate licence agreement applies to this data set (see Chapter 8).

Gutteridge Haskins & Davey (GHD) Pty Ltd assembled the utilities data and the 2003 cadastre from Computer Assisted Drawing (CAD) over a period from 1994 to 25-03-2003.

The Cocos (Keeling) Islands

The Cocos (Keeling) Islands are one of Australia's Indian Ocean Territories. They are located in the Indian Ocean 2,950 kms north-west of Perth, 3,700 kms west of Darwin, and 900 kms south west of Christmas Island (96° 52' East' 12° 10' South). There are 27 coral islands in the group, with a total land area of approximately 14km².



Geography and Climate

Apart from North Keeling Island, which is approximately 30kms from the main group, the islands form a typical horseshoe-shaped atoll surrounded by a coral reef.

Each island has rough coral beaches to seaward and sandy beaches or mudflats on the lagoon side. The Islands are low lying and most are thickly covered with coconut palms.

Wildlife consists mainly of seabirds, such as frigatebirds and booby birds, which are restricted to uninhabited islands, especially North Keeling. Land crabs are common on all islands.

The climate is tropical with high humidity. Temperatures range from 20°C to 30°C. The average rainfall is 2000mm per annum, falling mainly from January to August. The south-east trade winds blow most of the year, producing pleasant weather conditions.

Social Aspects

The population of the Cocos (Keeling) Islands was estimated at 675 persons in November 1998. This represents a slight increase from the figure of 655 persons reported at the 1996 census. The 1998 population comprised 552 persons on Home Island and 123 persons on West Island.

Home Island is the location of the Cocos Malay community. The Cocos Malays have significant social and cultural links to communities in Asia (particularly Sabah) and Western Australia. West Island's population comprises mainland-based public servants and contractors, long term residents and their families.

Copra provided an initial base for the Cocos (Keeling) Islands economy. The public sector is now the largest area of economic activity, although contracting out of activities has provided increased opportunities for the private sector. Tourism is potentially a significant area of economic activity in the Cocos (Keeling) Islands. Local attractions include diving, fishing and wind-surfing.

Chapter 1

Introduction

Background

This documentation accompanies the delivery of the Cocos (Keeling) Islands Geographic Information System (Cocos GIS) to the Department of Transport and Regional Services (Territories Office), on completion of Stage 2 (October 2000). The major tasks and activities associated with the project are as set out in the Memorandum of Arrangement (MoA) with Territories Office dated 10th October 1999 (Chapter 7).

General Features

The Cocos (Keeling) Islands Geographic Information System is a collection of spatial data, viewing and analysis tools dealing with the Cocos (Keeling) Islands. The data include orthophotography, topographic, cultural and environmental features both of the islands and the ocean immediately surrounding them.

Compilation of data and its organisation into a GIS together with documentation was undertaken by the Geoscience Australia (GA) at the request of the Territories Office, Department of Transport and Regional Services (DoTaRS).

The data are presented in both ESRI ArcView and ArcExplorer projects. The ArcView projects require a licensed copy of ArcView. ArcExplorer is a free viewer and is distributed with the Cocos GIS CD-ROM. Data are stored as ESRI shapefiles and therefore readily useable with most modern GIS applications.

Data were received from a variety of custodians and in many cases had no accompanying documentation. Lack of documentation made it increasingly difficult for GA with interpretation, translation and documentation of data. GA has attempted to include metadata for all datasets to ANZLIC core metadata standards, but the value of this is limited by the poor initial documentation. In addition to limited documentation, many datasets had inconsistent spatial accuracy.

In some cases further work could be done by GA to improve the value of the data, but this would be beyond the scope of the current MoA.

Getting Started

CD-ROM # 1 automatically runs a web (HTML) document containing details and tools for getting started with the Cocos (Keeling) Islands GIS. A hard copy of this document is included with this documentation in Chapter 5.

Chapter 2

Thematic Layers and Data

Viewers

The Cocos GIS CD-ROM # 1 contains ESRI's free data viewer ArcExplorer 2.0. This enables viewing of all the vector data and the TIFF versions of the raster data.

If editing or more complex GIS analysis is required, ArcView GIS should be used. GA has made every effort to correct errors in the source data. Use in ArcInfo or most other available GIS software packages should be straightforward.

Data Formats

The Cocos GIS uses ESRI shapefiles as its major vector format. This enables editing within ESRI ArcView GIS rather than requiring a more expensive software package. It also allows preservation of 3-D data components. The existence of a 3-D component, which enables easy viewing in a 3-D viewer such as ArcView's 3-D Analyst, was preserved wherever possible to maximise data value. In cases where this may limit shapefile portability to other software packages, the 3-D component can be removed by saving as a 2-D shapefile from ArcView.

The primary format for raster data is uncompressed Tagged Image File Format (TIFF) full colour. A secondary format is Enhanced Compressed Wavelet (ECW) format (a compressed format distributed with ERMMapper and viewable in ArcView after the installation of a plug-in). This format significantly reduces file size and is quick to view. GA has observed some spatial accuracy variability at higher resolutions with some ECW format images.

Source files are in a variety of formats, as received from the data custodian. Source formats include Microstation Design Files (DGN), ESRI Shapefiles, ESRI Coverages, ESRI ArcInfo Export (E00), MapInfo (TAB, MID/MIF) as well as various tabular and database formats.

Projection

The 2006 Cocos GIS stores data in the UTM(WGS84) projection. Previous versions of the Cocos GIS used the Cocos (Keeling) Islands Grid 1992 (CKIG92). This data has been projected to UTM(WGS84) Zone 47 using the ArcView projection wizard, and the ERMMapper Geocoding wizard.

COCOS (KEELING) ISLAND GRID 1992 (CKIG92)

Projection: Universal Transverse Mercator Zone 47 South
Datum: WGS 1984
Spheroid: WGS 1984
False Easting: 500000
False Northing: 10000000
Central Meridian: 99
Latitude of Origin: 0, 0
Scale Factor: 0.9996
Units: metres.

For more information about projecting using ArcView, refer to 'CocosGIS\document\reprojecting_shapefiles_arcview.doc' located on cd-rom#1. For more information about adding the CKIG92 projection to ERMapper, refer to 'CocosGIS\document\Adding_CKIG92_to_ERmapper.txt' located on cd-rom#1.

If creating ArcView projection files (PRJ), be aware that this can cause problems with loading shapefiles into ArcExplorer 2.

Satellite Imagery

Please read the license for terms and conditions of using the satellite imagery contained on cd-rom #1. It is located in the '/CocosGIS/document/licenses' directory under the name of 'MULTIPLE_ORGANIZATION.TXT'. There is also a copy in Chapter 8: Data Licensing and Agreements of this manual.

If you are unsure whether you are a registered user of the satellite imagery please consult the 'registered_users.pdf' file in the same directory. Alternately there is a list of registered organisations at the end of this section and also in Chapter 8: Data Licensing and Agreements.

Quickbird satellite imagery of Cocos (Keeling) Islands was commissioned by the Department of Environment and Heritage in mid 2003. All of the Southern Atoll was supplied to the Australian Government by DigitalGlobe in November 2003 and North Keeling Island was sensed in January 2004. The Quickbird satellite recorded reflectance data of the islands in the red, green, blue, near infra-red and panchromatic bands, in 11 bit format. The resolution of the sharpened satellite imagery is 0.6m/pixel.

Geoscience Australia was supplied with the full multi-spectral data for the Cocos (Keeling) Islands in the form of an 8 bit TIFF image containing the red, green, blue and near infra-red bands. The panchromatic band was also supplied as an 8-bit TIFF. DigitalGlobe undertook pan-sharpening of the satellite imagery, in the process dividing the imagery into four sections. Four 8-bit pan-sharpened TIFFs, one for each of the four sections, containing the red, green and blue bands was supplied to GA. Each pixel on the pan sharpened imagery represents 0.6m. Further details regarding the satellite imagery can be viewed in the full DigitalGlobe documentation

'CocosGIS\data\sat_imagery\DigGlobe_productguide_2003.pdf'.



Figure 1: The Cocos (Keeling) Islands as reprojected as one whole image.

All satellite images were supplied to Geoscience Australia in UTM WGS84 Geographics. GA joined the images using ER Mapper 6.4 and then using the ER Mapper Geocoding Wizard GA reprojected the full image into UTM GDA94. [Previously due to restrictions in computer processing power and a file size limit in ER Mapper 6.3 the four pan sharpened images were reprojected separately which led to gaps appearing at the joins in the four sections.]

Also received from Digital Globe was a satellite image of North Keeling Island. As with the other satellite imagery this was supplied as a multi-chromatic, a pan-chromatic image and a pan sharpened. Using the ER Mapper Geocoding Wizard Geoscience Australia reprojected the image into UTM GDA94.

DigitalGlobe advise that the positional accuracy of the imagery is +/-14.7m RMSE (Root Mean Square Error). Due to this low level of positional accuracy, an XY shift was also applied to more accurately position the imagery by correlation with the lodged cadastre on screen as follows:

Before cadastral re-alignment (see cadastre section of manual):

X=16.9m East

Y=6.9m South

After cadastral re-alignment

X=2.4m West

Y=3.14m South

This shift brought the imagery inline with the current cadastre and reprojected orthophotography.



Figure 2: North Keeling Island satellite imagery after reprojection. Notice that shallow waters around the island become obvious.

Due to disk space limitations these images are stored in ECW (Enhanced Compressed Wavelet) format. The main Cocos Island group is stored in the 'CocosGIS\data\sat_imagery\ecw' directory under the filename of 'cocos_satim.ecw'. The North Keeling Island ECW is located in the same directory with the filename 'nth_keeling.ecw'

	Registered Organisations
1	Department of Transport and Regional Services
2	Cocos (Keeling) Islands Shire
3	Geoscience Australia
4	WA Department of Industry and Resources
5	WA Department of Land Administration
6	WA Department for Planning and Infrastructure
7	Cocos Island Co-operative Society Ltd
8	Cocos Dive
9	WA Department of Education and Training
10	Cocos (Keeling) Islands Tourism Association

Table 1: Registered users of the satellite imagery bundled with this manual.

Full Notes from The Cocos GIS 2003 release

The satellite imagery was supplied in UTM WGS84 Geographics. Due to limitations of software and hardware Geoscience Australia projected the four 8 bit pan-sharpened TIFF images of the main atoll into UTM WGS84. The four reprojected TIFFs were then joined. As a result gaps between the four sections of imagery were apparent.

The image in it's entirety was saved as an Enhanced Compressed Wavelet (ecw) image, where each pixel represented 0.6 metres. Nineteen 1km x 1km TIFF images, and two 1.5km x 1km TIFF images covering Home, West and Direction Island were created from the image and are included with the 2006 release of the Cocos GIS.

Geoscience Australia shifted the ecw image (X +16m, Y – 7m) to match the more accurately positioned 2003 cadastre shapefile and the orthophotography. The TIFFs over Home and Direction Islands (X +16m, Y -7m) and West Island (X +14m, Y -9m) were also shifted to align with the orthophotography and 2003 cadastre.

Utilities

GHD Surveys supplied waste water, water supply, gas, fuel, power, and telecommunications data in ESRI shapefile format as well as Computer Assisted Drawing (CAD) file format. The utilities data were supplied in the CKIG92 projection. The CAD files are not stored in the GIS CDs due to disk space limitations. GA projected the utilities data to UTM(WGS84) using ArcView and the shapefiles are stored in the 'CocosGIS\data\utilities' directory. Data manipulation prior to receipt by GA can be seen in the original documentation by opening the file 'CocosGIS\document\GHD_meta_util.pdf' located on cd-rom #1.



Figure 3: Data from the Utilities directory includes water supply and power infrastructure points, lines and polygon.

The cd-rom supplied by GHD contained a number of customisations to enhance ArcView's interface. These included a 'metatool' (for viewing the utilities metadata sheet), hotlinks to CAD files and a GHD special font set.

The GHD-supplied custom font allows ArcView to generate point theme legends with custom symbols preferred by GHD. Examples of these can be seen in Figure 4. GA considers that GHD did not adequately document how to implement this special font.

Some of the GHD enhancements required registry edits, installation of DLLs in addition to ArcView extension (AVX) files. This requires a level of system access not available on most public service PCs. Consequently these particular enhancements were not implemented by GA.

The font used for GHD symbology is stored on CIGIS CD1 as 'CocosGIS\data\utilities\Ghdsym.ttf'. In order to view the symbols as GHD intended, install this font by opening your windows font directory (eg. C:\winnt\fonts), clicking 'File|Install New Font...', navigating to 'cd-rom #1 CocosGIS\data\utilities', selecting 'GHD Utilities Geocomp Symbols (TrueType)' and pressing 'OK'.

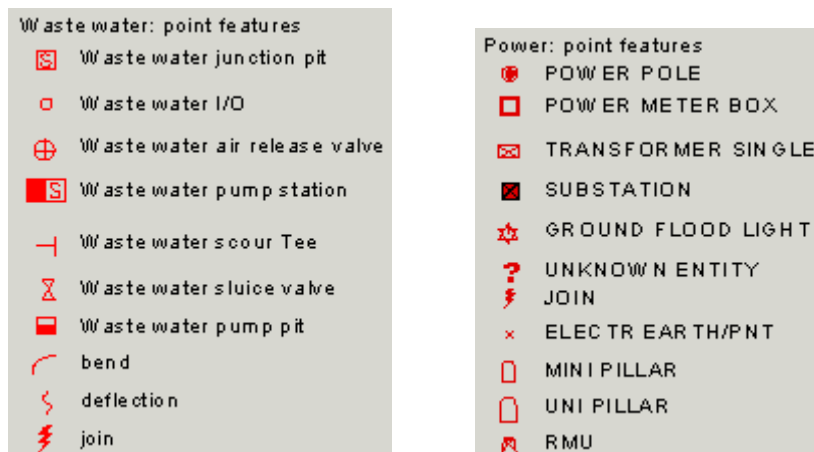


Figure 4: Examples of utilities legends in ArcView after installation of the font containing the GHD symbol set.

Orthophotography

The current release of the Cocos (Keeling) Islands GIS includes repositioned and reprojected versions of the orthophotography matching the included satellite imagery.

Using ERMapper a mosaic of the orthophotography was projected into GDA94 in BIL (Band Interleaved by Line) format. This was then sliced into separate tiles using the 'erswarp' utility which comes included with ER Mapper. An example of usage is shown on the left.

The full batch file used to create the tiles has been included on cd-rom #1 under CocosGIS\document\cocos_tiles.bat.

Notes on Previous Versions

Digital orthophotography has been prepared from aerial photography flown on the 5th April 1987 by the Australian Survey Office Canberra. GA commissioned LandInfo Canberra to generate orthophotography from the 1987 aerial photography as a component of this Cocos GIS project that GA undertook on behalf of Territories Office.

The orthophotography has a 25cm on-the-ground pixel size. A 'pixel' or 'picture element' is the smallest component in a digital image — a pixel is an individual square of colour. The quality of the orthophotography is impressive, with acceptable resolution down to 1:400 scale.

```
erm_run erswarp -j 269529.8070216110  
-k 8661242.5412299900 -l  
270519.8070216110 -m  
8660242.5412299900 -t map -z  
G:\\atlas\\anima~aq\\cocos~h_\\home_  
~dq.ers  
G:\\atlas\\anima~aq\\cocos~h_\\output\  
\\home2.ers
```

This command must be run from the
'\ERMapperX\bin\win32' folder.

Note that due to changes in version of
ERMMapper to 6.4, the erm_run command
must be used to initialise erswarp.

To access a full list of usage commands
for erswarp run the following in the
'\ERMapperX\bin\win32' folder:

```
erm_run erswarp -u
```



Figure 5: An image captured from the Cocos (Keeling) Islands GIS orthophotography at approximately 1:500 scale, showing clarity and resolution of land and underwater features. Of all the datasets in the GIS, the orthophotography (created from aerial photography flown in 1987) is considered to have the highest overall spatial accuracy.

The orthophotography is considered to be the most accurately located dataset overall. This high quality locational accuracy results from the use of surveyed ground control points in conjunction with recognisable features and a 3D model. In addition, the southern atoll is bridged by an intersecting flight line pattern, which also underpins the high positional accuracy. The triangulation report for the survey control is stored on cd-rom #2 at 'CocosGIS\data\orthphto\source\control\aig_ls3.doc' (Microsoft® Word 97 format — a text only version is also stored at that location) and shows there was a good fit of the control from a mathematically rigorous method and pattern. Hardcopy sketches of the survey ground control points are held in archive and are available for inspection.

Orthophotography was generated in Cocos (Keeling) Islands Grid 1992 (CKIG92) by transforming the aerial photography survey control to CKIG92. This involved a projection of the survey control file "aig.ctl" (cd-rom #2

CocosGIS\data\orthphoto\source\control\points\original) from UTM47S (WGS72) to Transverse Mercator (WGS84) with the following parameters plus an XY shift¹ of X=16.86mE and Y=4.12mN:-

False Easting	50000.000
False Northing	1400000.000
Central Meridian	96° 52' 30"
Central Scale Factor	1.000000

From experience with similarly created orthophotography and subsequent GPS checks, GA would expect the Cocos orthophotography over the main atoll to be within a meter of its true position. Exceptions to this high level of accuracy are Horsburgh Island and North Keeling Island, which are on unconnected flight lines and did not have reliable ground control available². Initial indications are that the North Keeling orthophotography could be around 35 meters out, and the Horsburgh Island orthophotography could be up to 20 meters out.

The original orthophotography consists of 24-bit colour Tagged Image File Format (.tif) files taking up about 4.7Gb of disk space. To decrease storage, GA has supplied orthophotography in two reduced size formats:

1. as 256 colour '.tif' tiles suited to both ArcExplorer and ArcView use, and
2. as full colour Enhanced Compressed Wavelet (ECW) compressed images which can be viewed in ArcView using a plug-in³ provided on the CD-ROMs.

Also supplied are ArcView Image Catalogs, which use a single theme to represent all the orthophotograph '.tif' tiles. An attempt has been made to match the digital orthophotography colour to that of the source aerial photography.

In 2003 GA projected the 256 '.tif' orthophotography images to UTM (WGS84) using ERMMapper.

ORTHOPHOTOGRAPHY DETAILS

Aerial Photography:
 Australian Survey Office, Canberra
 Aerial Photography for the Cocos Keeling Islands
 Film No: SOC 760
 Film Type: colour
 Photo Scale: 1:10000
 Date: 5-4-87
 O/Lap: 80%
 Project Name: COCOS KEELING ISLANDS
 Run No(s): 1 - 7
 Scanning for COCOS GIS: Kevron Aerial Surveys
 Orthorectification for Cocos GIS: LandInfo (Canberra)

¹ The XY shift is necessary to accord AUSLIG and ERIN data with the DoLA cadastre data, which has been chosen by GA as the authoritative vector dataset.

² Two datasets covered Horsburgh and North Keeling Islands. GA judged the planning data to be more reliable, but the ERIN marine environment data had more resolution. GA warped the ERIN data to match the Planning data, and supplied the resultant coastline data to LandInfo to aid in georeferencing the orthophotography.

³ File 'ArcView_3.2a_ECW_Plugin_v2.5.exe' in folder 'CocosGIS\util\arcview\extensions'.

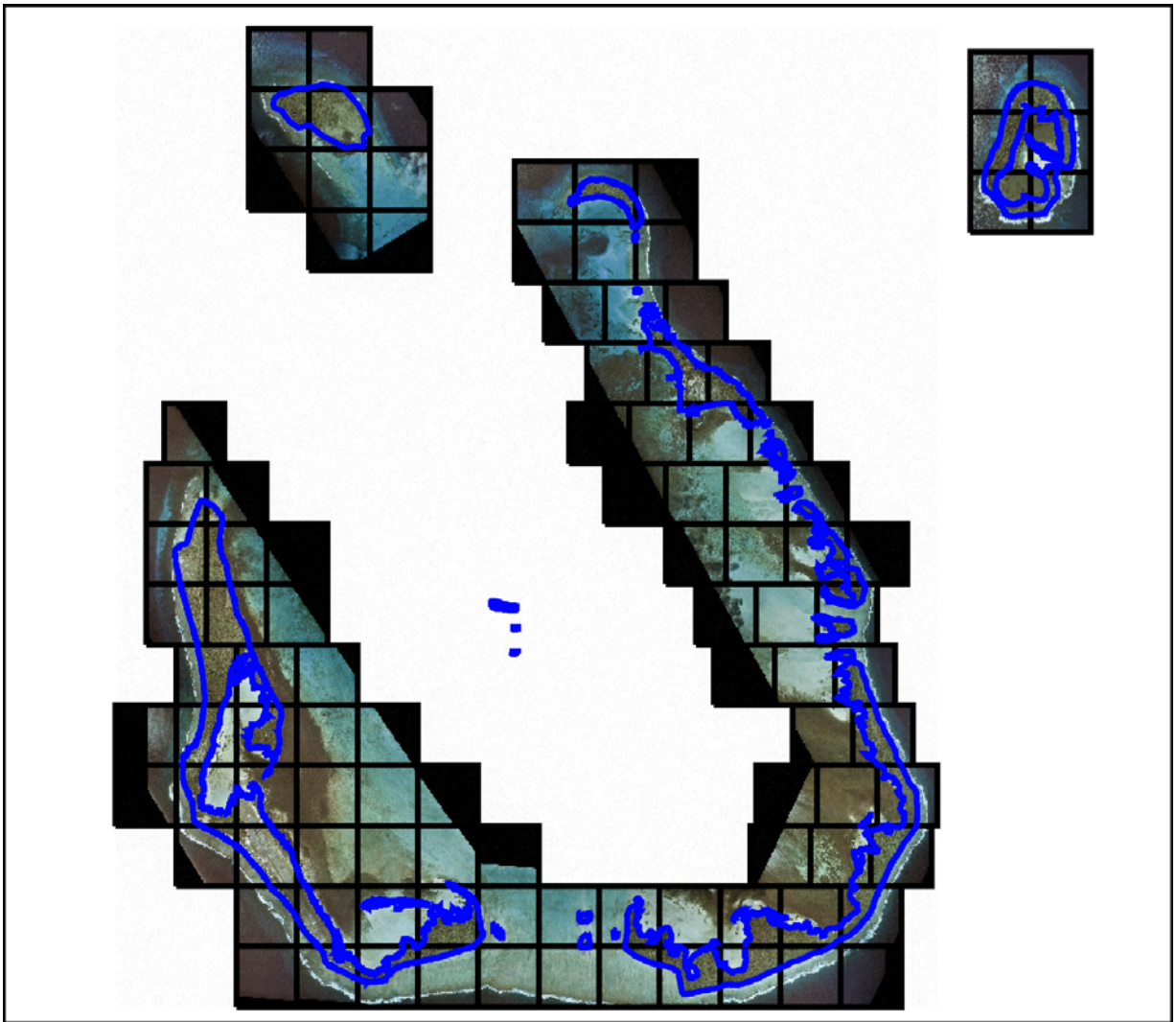


Figure 6: Layout of all 105 1Km X 1Km orthophotography tiles created for the Cocos GIS from the 1987 aerial photographs.

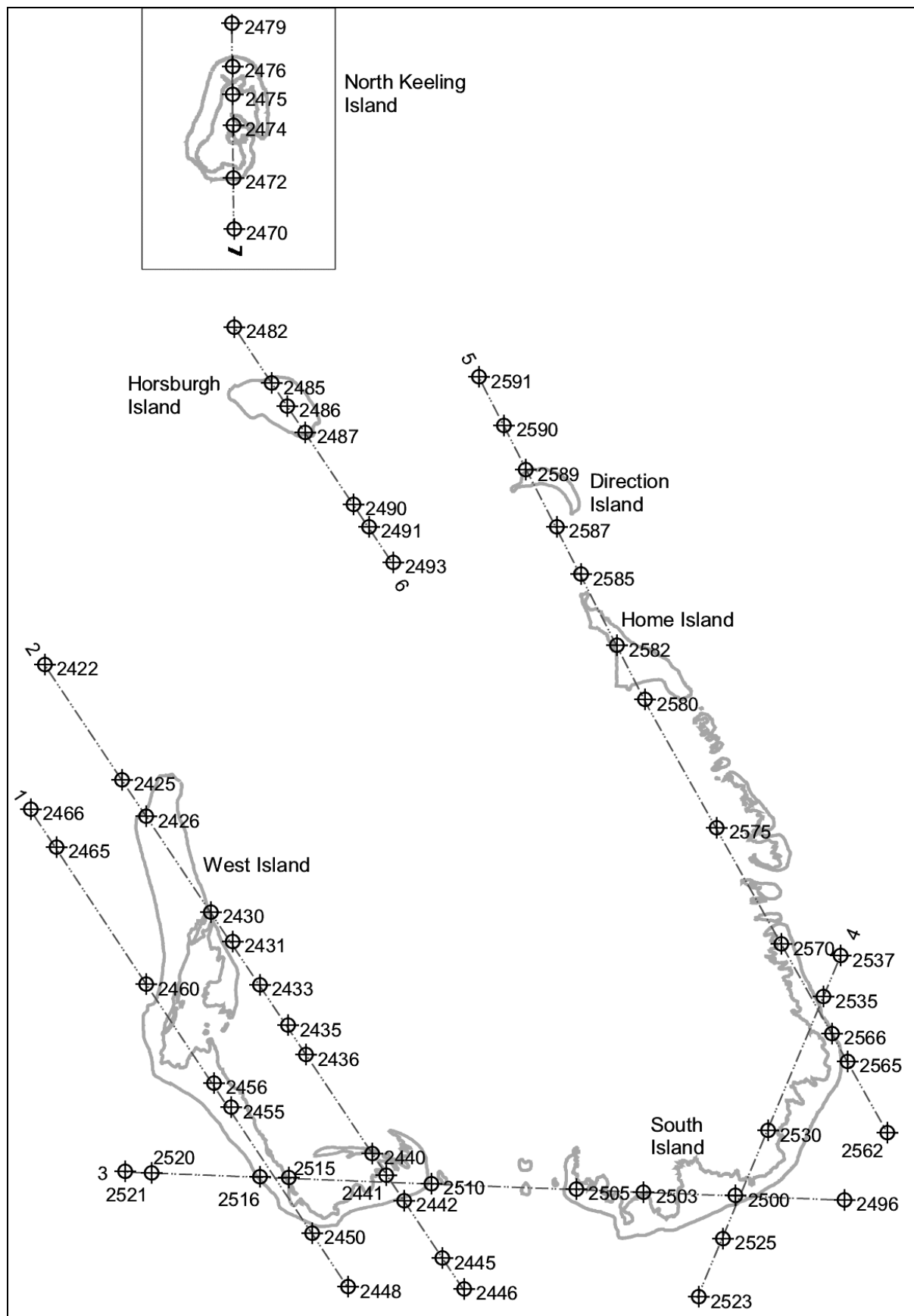


Figure 7: Flight lines and photo centres of the 1987 aerial photographs used for the Cocos GIS orthophotography. Flight lines are numbered at one end of the line.

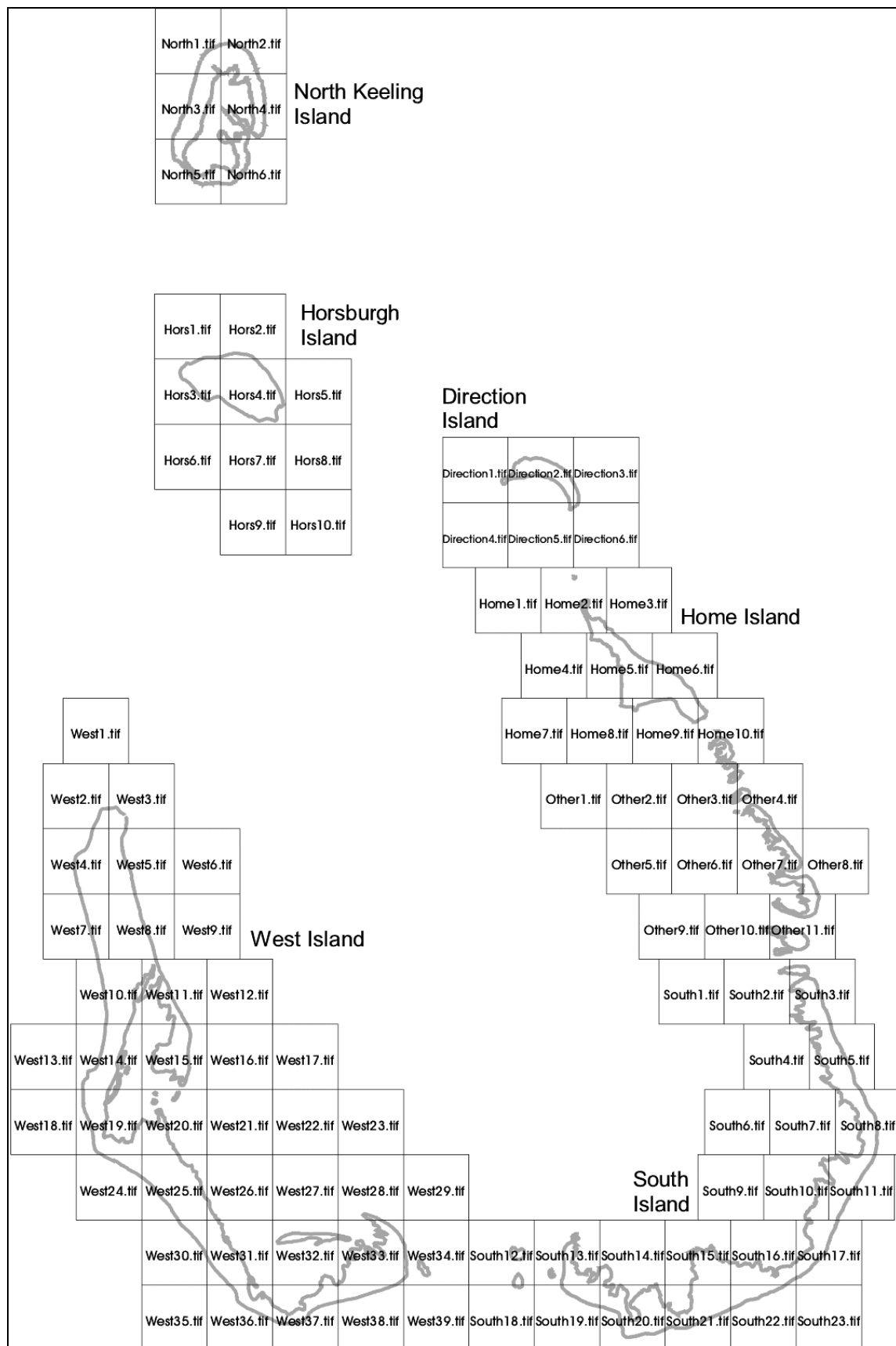


Figure 8: Index of the orthophotography showing the names and extents of each orthophotograph tile. Each '.tif' file is associated with a '.tfw' file which georeferences the image. The index file is stored as a shapefile ('orthindx.shp') for use within ArcView and ArcExplorer projects.

Cadastre and Ground Audit

In December 2004 Geoscience Australia received the scheduled cadastral update from Tony Yeomans of the Department of Land Information (DLI, formerly DoLA). This update consisted of two ESRI shapefiles and two access databases.

One of the ESRI shapefiles contains current property boundary information and the other contains lodged changes to property boundaries. Both ESRI shapefiles arrived at Geoscience Australia pre-projected in UTM (GDA94).

The reason for differences between the lodged cadastre and the current cadastre is that current data could have been calculated or digitized, etc. When lodged data is integrated into current, the area is spatially upgraded with the new survey data (lodged data) as this would be more accurate⁴.

One access database contained data relating to tenure information including address. The other contained data on reserves.

In January 2005 Geoscience Australia also obtained ground audit data from Peter Brockmulen of the Department for Planning and Infrastructure (DPI, formerly DoLA). This ground audit was conducted in 2004 at the request of the Department of Territories and Rural Services (DoTaRS) in Western Australia. It contains data describing land use and reserve usage.

To produce the final cadastral information the files were modified and combined as follows.

Due to initial consultation with users of the Cocos GIS it was decided to keep the cadastre containing current property boundaries and the cadastre containing lodged changes to property boundaries separate. As such the following changes were made to each file separately. Additionally the cadastral boundary for North Keeling Island, taken from the last version of the cadastre, was joined to the current cadastre shapefile.

From discussion with users of the Cocos GIS it became apparent that the field LOT_TYPE was causing confusion with its meaning. This is because it is a computer generated field that does not reflect the tenure of the land. Instead land tenure is derived from the PI_PARCEL field. To avoid this problem GA removed the LOT_TYPE field and replaced it with a TENURE field derived from the PI_PARCEL field and based on the definitions from the NORM manual⁵ as supplied by DLI.

Using tenure information from the database supplied by DLI and from the land audit information supplied by Peter Brockmulen, GA joined on the fields ADDRESS, ZONING, RESERVE, PURPOSE and MANAGEMENT were joined on lot number. For multiple instances of lot numbers information was entered manually based on the land audit information supplied by Peter Brockmulen. From reserve data supplied by DLI the fields RSV_VESTIN, RESERVE_US and LGA were joined using the PIN field.

Finally GA made the decision to move the cadastral data to be in line with previous data such as orthophotography. As such the following XY shift was used on both the cadastre and the

⁴ Email from Tony Yeomans of DLI, 14th February 2005.

⁵ NORM files are a series of sequential files which DLI (formerly DoLA) uses to disseminate spatial and tenure data. Each of the files contains attribute data for a single tenure or spatial entity. The content of the NORM files is generally normalised, with data from different files related through common key attributes. *Taken from 'NORM files' September 2—2, by DoLA*

lodged shape files:

X+3.26m

Y-1.04m

This set cadastre data within 0.1m of older versions. In the future GA plans to assess the positioning of the cadastre based on the GPS ground control station on West Island and the satellite imagery.

In the 'CocosGIS\cadastre\cadastre_dli' folder is the lodged and cadastre shape files as projected by DLI but with all data joined.



Figure 3: Cadastre.shp and Lodged.shp overlaid on satellite imagery of Home Island.

Notes of Previous Versions

In August of 2004 DoLA supplied GA with the scheduled update to the cadastre in the form of an ESRI shapefile. The data was supplied to GA pre-projected in UTM (GDA94). Through observation this was found to be accurate and as such GA did not reproject this data.

For the first time this included a positioned cadastral outline of North Keeling Island. Also for the first time the dataset included both the current cadastral tenure boundaries and the lodged changes to tenure boundaries.

To produce the final cadastre the current tenure boundaries and the lodged tenure boundaries were combined (this is no longer the case). Data from previous cadastral tables was then joined using pin number.

In 2003, GHD Surveys Pty Ltd provided GA with an updated cadastre in ESRI shapefile format. This cadastre was supplied in the CKIG92 projection. GA projected the 2003 cadastre to UTM (WGS84) using ArcView.

The 2003 cadastral data cover most of the main group of islands. Horsburgh Island and North Keeling Island were not included in the cadastre.

By observation spatial accuracy was good across all the islands. This can be difficult to check, since cadastral boundaries do not usually correspond to natural features. When compared to the orthophotography (which should be spatially accurate for the southern atoll), features matched well on all the islands.

For previously supplied datasets (eg 30-DEC-99) GA confirmed the coordinate system to be geographic (World Geodetic System 1984). DoLA are confident of the transformation of the original WGS72 data to WGS84 but note earlier co-ordinates are based on a doppler survey and so may not be so accurate⁶. The cadastre is however the most rigorously surveyed vector dataset and so the cadastre was selected by GA to be the authoritative vector dataset.

GA projected the cadastral dataset to CKIG92 using the ArcView 3.2, a projection utility.

The cadastral data cover most of the main group of islands. Horsburgh Island and North Keeling Island were not included in previous versions of the cadastre.

By observation spatial accuracy is variable (the cadastre is difficult to check, since cadastral boundaries do not usually correspond to natural features). When compared to the orthophotography (which should be spatially accurate for the southern atoll), West Island features match well over the whole island. Home Island matches well for the majority of the island, but with significant offset of features at the northern end of the island. Direction Island matches well.

The cadastre for South Island and the small islands of southeast Cocos appears poorly located. For this area, different groups of islands in similar vicinities have different offsets from the orthophotography, suggesting erroneous positioning of the cadastre rather than a general projection error. For the final cadastre version, GA moved some of these individual small islands, and occasionally stretched the features in an X and/or Y direction. The majority of this work was done at a scale of 1:2500. South Island required warping to get a reasonable match to the orthophotography. GA used the ArcView Extension ShapeWarp to register and warp this island and small islands surrounding it. Movements of cadastre features for southeast Cocos tend to be up to 20 meters, but can be around 40 meters.

The original shapefile had some erroneous polygons (43 regions), which had small visible representations and large areas. As these areas did not have attributes and in all cases checked were not unique, they were deleted from the projected shapefile.

The majority of attributes in the final cadastre shapefile are from the Ground Audit data, which were joined to the cadastre using the Pin field.

⁶ Pers Comm and e-mail; Linda Morgan, DOLA 21&27/1/00, Ph 08 9273 7135.

Topography and Culture

Data representing topography and culture were received from LandInfo Canberra (on behalf of the Australian Surveying and Land Information Group (AUSLIG)) in design file format (DGN). Documentation was not supplied with this data and is apparently not available. Coverage is restricted to Home and West Islands.

It is probable that the nominal scale of this data is 1:1000 as similar data collected by AUSLIG for Christmas Island are of this scale.

Evaluation of the data suggests that the probable source coordinate system is Universal Transverse Mercator (UTM) Zone 47 (World Geodetic System 1972 (WGS72)). Using this input coordinate system, projection to CKIG92 resulted in a mismatch of coordinates. Using similarly digitised features in the coastlines, GA found that an X-shift (16.86mE) and a Y-shift (4.12mN) of the AUSLIG data resulted in a match with the cadastre for West Island.

Home Island did not match as well and a further X-shift of 2.22 metres East matched the centre of the township on Home Island to ± 0.25 metres. The far Northern end of Home Island is the worst located with features approximately 5 metres West of the orthophotography. In the wharf area, features are approximately 1.5 metres West of the orthophotography. The road features in the far East of the island are approximately 2.5 metres East of the orthophotography, and the South-West of the island matches the orthophotography to ± 0.5 metres. Attempts to warp Home Island features to match the orthophotography were not acceptable.



Figure 11: Topography and culture data from LandInfo Canberra (on behalf of AUSLIG). Labels refer to vegetation polygons (extracted and corrected by GA). These codes cannot be sensibly decoded by reference to the AUSLIG code sheets; they will probably require someone with local knowledge to add a description.

Data derived from topography

Two coverages have been derived from the AUSLIG topography by GA in order to enhance the useability of the data in a GIS. These are a vegetation layer (vegetatn.shp) and a road centrelines layer (roads.shp).

There are a number of features in the original topography data that do not have valid AUSLIG codes. Comparison with the orthophotography indicates that all these codes represent vegetation. GA has extracted these codes and created a polygon layer (in ArcInfo) by including common lines as well as those coded as a particular type. The resulting layer is coded according to the erroneous codes in the original data. Because the level of detail is different from the vegetation layers in the planning data, correlation was not conclusive. Re-coding according to actual vegetation types is recommended if this layer is to be used for analysis. The vegetation appears to match the 1987 orthophotography, and would therefore be out of date in some areas due to the fact that the 1992 planning data documentation reveals that areas have been cleared since the 1987 air photos.

For GIS analysis using a road network, GA has created a road centreline layer based on the topographic data. This was accomplished using the ArcInfo 8.0.2 CENTERLINE command and then manually correcting (in ArcEdit) at intersections and elsewhere based on the original dataset and, to a lesser extent, the orthophotography. Converting to ArcInfo format necessitated dropping the third dimension from the data. GA did not attempt to digitise road features from the orthophotography where digital data did not exist. Users should be aware that the road centreline coverage is therefore incomplete. It would be useful if future work included the addition of further attributes (especially road names — which none of the available topographic and cultural data include).

In 2003 GA projected the topography and culture data to UTM(WGS84) using ArcView.

Detailed Survey

LandInfo Perth supplied detail survey data on behalf of AUSLIG. No documentation was available for this data except for working notes on the CD-ROM. The spatial component of the data was supplied in design file format (DGN). As Ground Audit databases were also supplied with this data, it is possible that the detail survey was associated with the ground audit, which would date it at around 1996. This dataset is valuable in that it contains features such as services (utilities) that are not available in other datasets.

Coverage is restricted to the populated areas of Home and West Islands for the detailed data, with lower resolution data for general coverage of Home and West Islands.

It was assumed that the data was supplied in the UTM Zone 47 (WGS72) coordinate system. Projection to CKIG92 with the addition of an X-shift of 16.86 metres East and a Y-shift of 4.12 metres North appears to confirm this. This is the same XY shift that was applied to both the Topography & Culture dataset and to the Marine Environment dataset. In contrast to other datasets, a good match of features with the orthophotography at the northern end of Home Island has been achieved (this area matches the cadastre). Inside the detail survey area features generally match the orthophotography locationally to within ± 0.25 metres. Outside the detail survey area features may be up to ± 7.5 metres displaced with respect to the orthophotography.

Many building shapes do not match the orthophotography, to the extent that their shapes are not even close to a match. One row of buildings is consistently displaced by approximately three metres. Many features are mislabelled. For example, map tic marks are labelled as

drainage pipes. It appears that this dataset is incomplete and has certainly not gone through rigorous quality control. Some housing shapes appear to be from an early conceptual plan rather than a survey of housing at the time of this data's creation. Although there is a lot of potentially useful data in this dataset, the logical consistency of both the spatial and attribute components appears flawed. In 2003, GA projected the Detailed Survey data to UTM(WGS84) using ArcView.

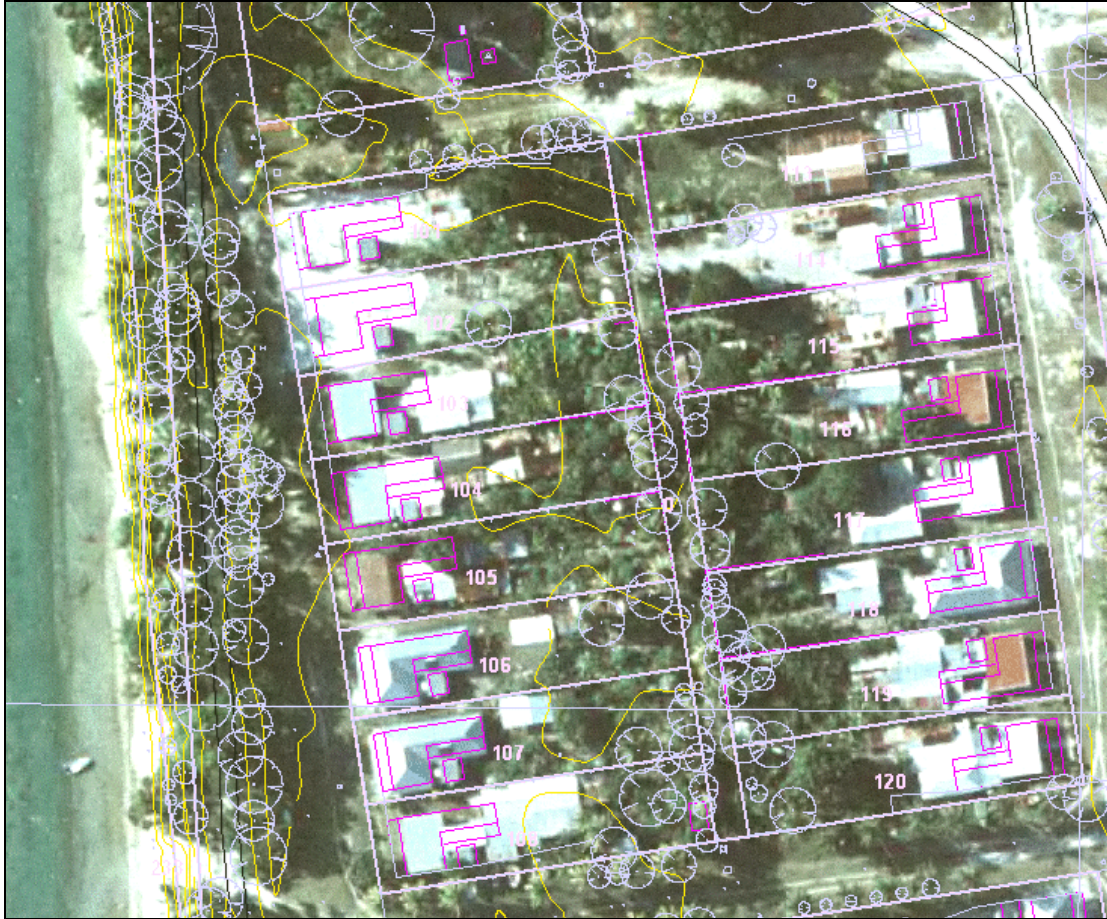


Figure 12: Screen capture of part of Home Island showing poor spatial accuracy for some housing features of the detail survey data. The right hand row of houses has features offset by approximately ± 2.5 metres compared to the orthophotography. Many of the houses also have very different shapes in the data when compared to the orthophotography. It seems probable that these features are not surveyed but retrieved from an earlier, perhaps conceptual, plan.

Side Scan Sonar Paths & Interesting Features

In August 2005, Parks Australia North Cocos (Keeling) Islands (PANCKI), (courtesy of Robert Thorn) provided Geoscience Australia (GA) with sidescan sonar video footage taken from the shipping channel from the north-eastern lagoon entrance through to the blue hole or the oil-tanker moorings. The video footage was supplied on CD-Rom viewable with accompanying software (Imagenex Model 881 Sportscan Digital Sidescan Sonar V1.20).

The video footage was taken over eight days (20-23/11/2002; 4/12/2002; 5/3/2003; 11/3/2003 & 17/3/2003) by Don Shepherd, subcontracted by GHD Pty Ltd and funded by DoTaRS. The purpose of this survey was to confirm the shipping channel and was the final survey before the shipping channel could be opened. It was conducted to ensure that previous contractors had adequately removed obstructions such as coral bobbies and placed markers appropriately. Positional accuracy of the sidescan sonar has not yet been received by GA. The instrument trails the shipping vessel on a cable of variable length. Errors are introduced



depending on the length of this cable, and also depending on the currents within the water body. GA is as yet to receive information regarding the cable length used or whether corrections have been made to the sidescan sonar data. GA has tested various locations along the sidescan sonar paths for accuracy. This was done by correlating the path with features distinguishable in the 1987 Orthophotography. From these test locations, GA believes errors to be within +/- 10m. An example of these test locations can be seen in Figure 17 below.

Figure 13: IMAGENEX Sportscan Digital Sidescan Sonar device

Shapefiles have been built from this data to show the paths taken by the sidescan sonar vessel. These were created using the longitude and latitude displayed from the beginning and end of the image paths. It should be noted however that this method assumes the vessel to be moving in a straight line throughout the footage. As the lines have been compiled with only the beginning and end point data it is possible that the vessel did not maintain this straight path and therefore errors may be evident due to this assumption. A coverage of lines was built and projected into UTM Zone 47S (WGS84).

A second shapefile has also been created which shows anomalies noticed by GA within the sidescan sonar footage that may be of interest, such as that in Figure 14 below. The shapefile was produced using the latitude and longitude of the particular point of interest, and was then projected to UTM Zone 47S (WGS84). These two shapefiles are shown below overlaid on the 2003 satellite imagery.

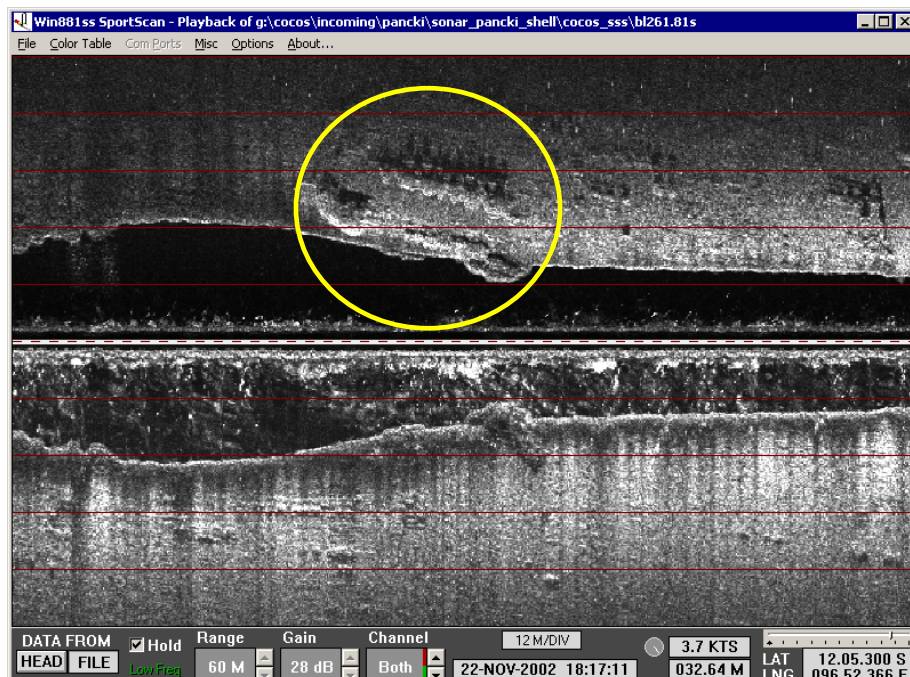


Figure 14. An anomaly within the Side Scan Sonar footage.

GA is as yet unable to provide an explanation of what these anomalies are. Evidence suggests they could be a combination of natural features such as coral bobbies or rock strata, or

anthropogenic features such as foundations of past or present navigation markers or perhaps a sunken vessel or war wreckage. Screen captures of these areas have been included on the adjoining pages.

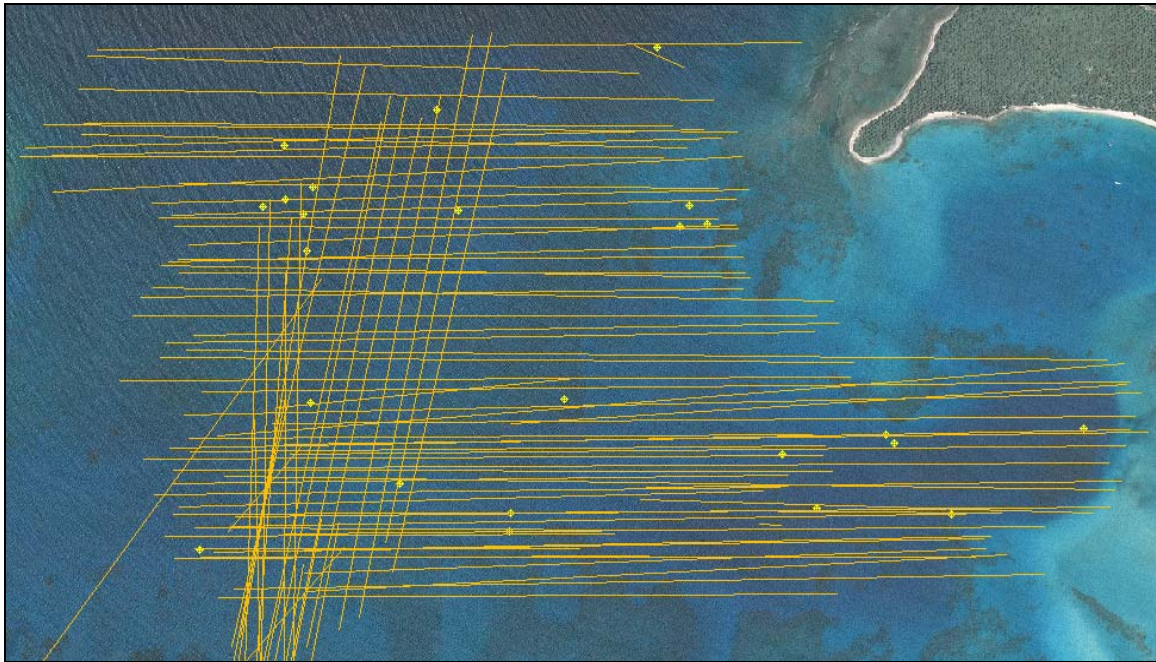


Figure 15: Side Scan Sonar paths and interesting points overlaid onto the 2003 satellite imagery.

By overlaying these shapefiles with the 2003 satellite imagery and, where available, the 1987 orthophotography, correlation is evident between rock and coral covered patches of the sea-floor and that data footage captured by the sidescan sonar. This can be seen by comparing the following sidescan sonar image and the 1987 orthophotography of the same area.

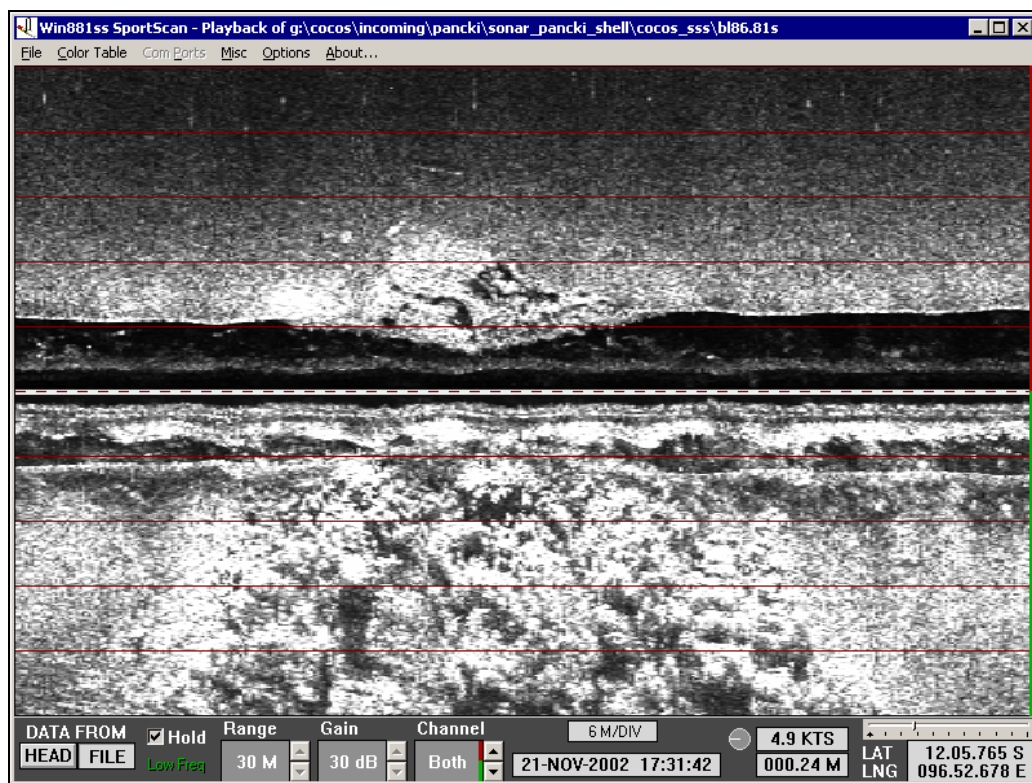


Figure 16: Sidescan sonar image of an area near the Blue Hole. Correlation can be seen between the sonar footage and the satellite image shown below.

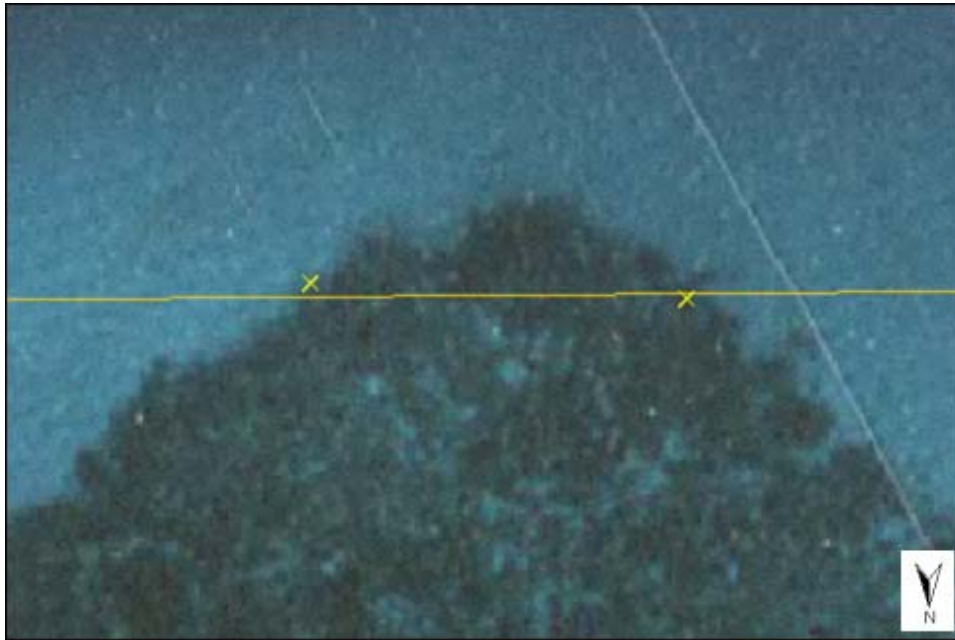


Figure 17: 1987 Orthophotography of the area captured in the sonar footage displayed in Figure 4.

Correlation can be seen between the two images (note that the vessel was travelling from east to west).

GA understands the dark band in the middle of the sidescan sonar footage to represent the wake of the boat. Due to the sonar equipment needing to drop 3-4 meters below the boat, it was necessary for water depth to be at least 5 meters. Paths are attributed with the video footage filename. (e.g. bl96.81s, where bl=blue hole and .81s refers to the equipment model. Other prefixes are ch=channel, cl=clearance area, tr, newcl, and south). PANCKI have expressed an interest in investigating some of these anomalies by diving the areas.

Marine Environment

Marine environment data were obtained from the Environmental Resources Information Network (ERIN). ERIN refers to this dataset as *Environment Australia (1998) Whelans Cocos GIS (1998)*. This includes coastlines, bathometric contours, coral outcrops and other features.

This data is now supplied on CD-ROM #2 of the Cocos (Keeling) Islands GIS.

The data were supplied as ArcInfo export files, but relevant documentation was not available. Documentation provided by ERIN with the data actually referred to a different dataset, namely the Cocos (Keeling) Islands Land Use Plan of 1992.

Evaluation of the marine environment data established a match with the cadastre on West Island using a projection from UTM Zone 47 (WGS72) to CKIG92 plus an X-shift of 16.86 metres East and a Y-shift of 4.12 metres North. This is the same XY shift that was applied to both the Topography & Culture dataset and to the Detailed Survey dataset. However all other islands are significantly mis-located. Attempts to warp these features or to derive a coordinate transformation were not successful. The actual marine zone features appear to be of a relatively low resolution anyway, defining approximate rather than exact boundaries. Interestingly they seem to match the spot image. In 2003 GA projected the Marine Environment data to UTM(WGS84) using ArcView.

CAUTION

It is recommended that the use of the Marine Environment data be restricted to broad-scale applications and that caution be exercised (especially away from West Island) due to poor spatial accuracy.

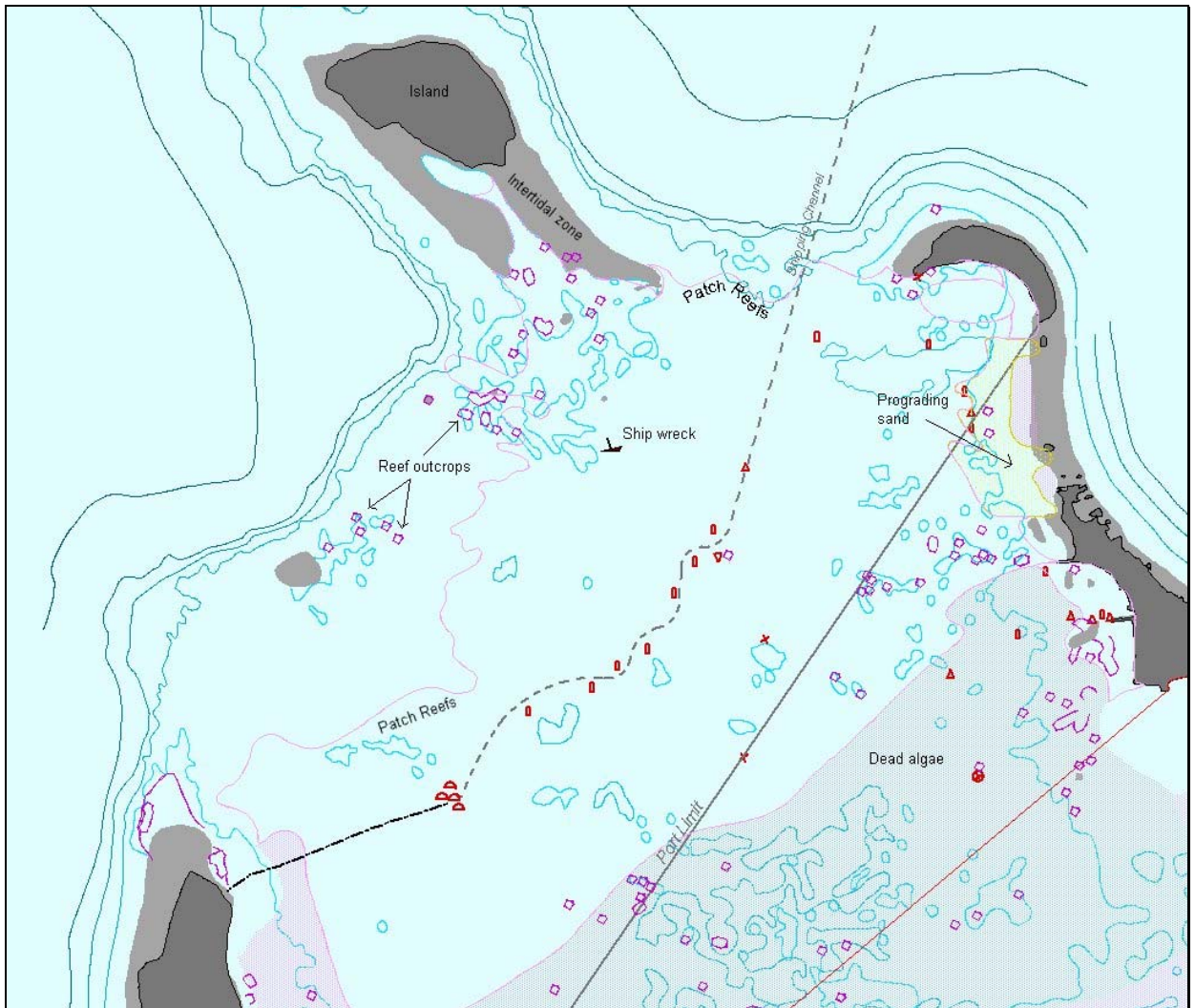


Figure 18: Data from ERIN include marine environmental data, some marine infrastructure and management zones.

Planning

The Cocos (Keeling) Islands Land Use Plan and Planning Scheme (June 1992) was prepared for the Cocos (Keeling) Islands Council by the National Capital Planning Authority (NCPA) and the Commonwealth Department of Arts, Sport, Environment and Territories (ref). As part of the planning study, a geographic information system (GIS) database was established in order to prepare base and thematic maps and to enable the production of high quality figures to illustrate the planning report and to present the plans for public consultation.

The GIS data was stored by NCPA as ESRI coverages and includes planning-related cultural and environmental layers. The data coverage is primarily for the southern atoll, but some include North Keeling Island.

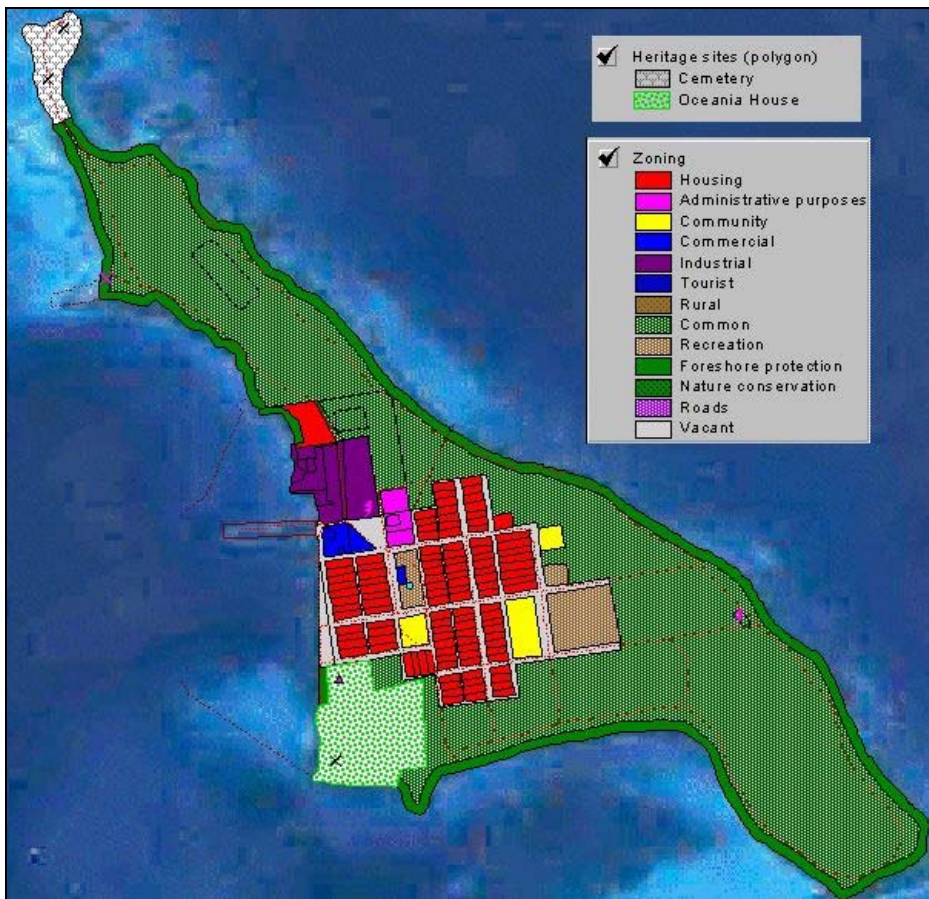


Figure 19: Data from NCPA include the 1992 Planning Scheme, together with over twenty supporting layers — all documented to a high standard.

The source coordinate system is UTM Zone 47 (WGS72). In 2003, GA projected the data to UTM(WGS84). Data accuracy is variable depending on the dataset and location.

Documentation for this dataset is of a high standard (hard copy only was supplied) and includes attribute descriptions and metadata for each dataset. (Chapter 4 is a digital version created by GA of the original 1992 GIS data documentation).

Although this data is often broad scale in nature, it has a large range of useful layers. Some of the NCPA marine data boundaries are more detailed than those received from Environment Australia.

The original digital data includes numeric feature codes whose descriptions were stored in the hard-copy documentation and for some in ArcInfo look-up tables. In some cases the look-up tables' code definitions were different from the hard copy. GA has added fields to the shapefile attribute tables to contain these feature codes and descriptions.

Water Resources



Figure 20: Water resources data supplied by ECOWISE Environmental Ltd includes freshwater lens extents, galleries and other water resources infrastructure.

ECOWISE Environmental prepared water resources data for the Cocos (Keeling) Islands. They were delivered in April 2001 in association with a report prepared for Cocos (Keeling) Islands Administration, Department of Transport and Regional Services and GA. Data was collected for incorporation into the Cocos GIS and subsequent distribution to stakeholders and other authorised users. ECOWISE Environmental supplied the data in the CKIG92 projection. GA projected the ECOWISE data to UTM(WGS84) using ArcView.

GA has now incorporated the layers into the Cocos (Keeling) Islands GIS and will prepare ANZLIC compliant metadata. Good non-compliant metadata was supplied with the data and is in the ECOWISE report at 'CocosGIS\data\waterres\source\documentation\Report.doc' and Chapter 10 of this report.

These data supersede the water resources layers in the planning dataset.

National Estate



Figure 21: Data from the Register of the National Estate includes point and polygon representations of registered significant sites (historic and natural).

The Australian Heritage Commission, Environment Australia, supplied data of sites on the Register of the National Estate in May 2001. The data were supplied as a polygon shapefile and a point shapefile. The data cover the whole island group, including North Keeling Island. This was supplied in the geographic coordinate system (WGS84). No other metadata was supplied with the data. However the Australian Heritage Commission (AHC) have a website (<http://www.ahc.gov.au/register>) which contains detailed descriptions of each heritage site and, in most cases, a photograph of the site.

After projection, the majority of polygon boundaries closely match the cadastral boundaries. If they are derivatives, they may have similar positional accuracy. The points, however, have very variable accuracy. Some seem to be based on centroids of cadastral polygons, but many appear to represent the general vicinity of a site.

This dataset includes a number of points and areas which do not appear in the 1992 planning data. The planning data includes a number of points “of heritage interest” which do not appear in this dataset, including Direction Island’s cable station ruins, the wrecks of the *Phaeton* and the *RCL*, West Island’s cemetery and the Twiss Memorial.

Other Data

There are a number of other datasets and digital products supplied on the Cocos GIS CD-ROMs.

The 'graphics' directory contains a spot-derived image covering the entire Cocos (Keeling) Islands in JPG format (Cocos_Spot.jpg). Because the original image was very large and had a substantial proportion of featureless ocean, a 256 colour clipped image covering just the southern atoll has been supplied ('CocosGIS\data\misc\spot\sthaspot.tif'). It is recommended that this clipped image be used in the GIS as a backdrop only - the positional accuracy is not sufficient for full GIS use. This is a scan of a DoTaRS poster, with the scanned image pixel size representing about 5 metres on the ground. Poster printing, scanning and JPEG resampling have degraded colour information. It is not recommended for scales closer than 1:50,000. This image does however give some indication of marine features in the central lagoon beyond the extent of the orthophotography.

The 'data/misc/property' directory (cd-rom #2) contains spreadsheets with property information. GA has converted these Microsoft® Excel format spreadsheets to Dbase V tables for use in ArcView. This involved changing some field names to comply with Dbase limitations. The DBF tables can be added to ArcView as tables, and where a Pin or Loc/Lot No exists in the table, can be joined or linked (for 1 to many relationships) to the cadastre attribute table.

The 'CocosGIS\data\misc\oceansub' directory contains data relating to an Expression of Interest and subdivision proposal for the Oceania House lot on Home Island. This is an example of use of the Cocos GIS prior to its completion. Of most interest in this directory is a CAD (DXF) file of the subdivision. This file is supplied in 'CocosGIS\data\misc\oceansub\Lot14.dxf'. It is not geographically located so cannot be overlaid on Cocos GIS layers. GA could easily do the geolocation as part of future work, but future Department of Land Information (DLI) cadastre updates should reflect the new subdivision. The data can be viewed in ArcView if the Cad Reader extension is enabled.

In the 'CocosGIS\graphics' directory are digital copies of several maps and posters. The maps are stored as postscript (EPS) and Adobe® Acrobat (PDF) files. The poster is stored as a JPEG image file.

Chapter

3

Further Work

GA has identified areas where improvement could be made in several datasets. These could be addressed in future work if required.

Annotation Capture

Some datasets have annotation that is yet to be captured as attributes. The capture of annotation as attributes is useful for full GIS functionality. An important example is the contour labels in the detail survey, which are the only height information stored in that dataset. A height attribute for this data would vastly improve the value of the data. A particular example is the wreck of the Emden, which is identified only as a shipwreck in the attributes but as the Emden in annotation.

Cadastral Updates

The digital cadastral will need regular updates to maintain currency. DoLA has indicated that revision of the cadastral layer is ongoing. These should be incorporated into the system as resources allow. In addition further entries and updates could be made in the ground audit table.

Geographic Names and Road Names

Probably the most authoritative feature layers (the cadastral and the topography/culture data) do not have geographic names as attributes or annotation. The planning scheme data does have some named features (eg. island names in English and in Malay) and these could be transferred as attributes to more detailed feature layers if this is appropriate. Most road names are missing from all datasets that are currently in the Cocos GIS.

Other Data Improvements

A number of other limitations and weaknesses in the current datasets could be addressed in future. Some important potential improvements are:

- ❑ joining of the contour lines where broken (ideally completion of the contour coverage of the islands);
- ❑ improved spatial accuracy of orthophotography over North Keeling Island and Horsburgh Island (this would require authoritative coastline and/or recognisable survey marks);
- ❑ checking and correction of erroneous attribution in detail survey data;
- ❑ update of metadata to ANZLIC version 2, and storage as XML files;
- ❑ proper coding of vegetation layer and resurveying if and where necessary; and
- ❑ surveying of authoritative coastlines (especially south of Home Island and east of West Island, North Keeling Island and Horsburgh Island), remaining aware that the coastline in detail is variable over time.

References

National Capital Planning Authority and the Commonwealth Department of the Arts, Sport, the Environment and Territories, 1992, Cocos (Keeling) Islands Land Use Plan and Planning Scheme (June 1992). Prepared for the Cocos (Keeling) Islands Council.

National Capital Planning Authority (P. Kendall) and the Commonwealth Department of the Arts, Sport, the Environment and Territories, 1992, Geographic Information System Database Accompanying Documentation for the Cocos (Keeling) Islands Land Use Plan and Planning Scheme (June 1992). Prepared for the Cocos (Keeling) Islands Council.

Australian Estate Management with input from AUSLIG, AVO and AGS, 1996, Indian Ocean Territories Ground Audit Module 1 Final Report. Prepared for the Territories Office, Commonwealth Department of the Environment, Sport, and Territories.

Department of The Arts, Sport, The Environment, Tourism and Territories 1991, TERR BCH – COCOS (K) ISLANDS DEVELOPMENT PLAN – MAPPING. Unclassified file no. 91/06398

Department of Land Administration (DoLA), 1992, Christmas Island & Cocos (Keeling) Islands Land Tenure System Project Planning & Detailed Costing Report

Bureau of Transport Economics 1998, Cocos (Keeling) Islands Regional Analysis Report prepared for the Indian Ocean Territories Review

ECOWISE Environmental Ltd, 2001, Report on Water Resources Component, Cocos (Keeling) Islands GIS, by Tanya Whiteway and Tony Falkland, prepared for Cocos Island Administration, Department of Transport and Regional Services & the Australian Geological Survey Organisation April 2001

GA Catalog details for the Cocos GIS (#61840):

Cat # : 61840 **Flags** Product : Y Publication : N Dataset : N Resource : N WWW : N

Title : Cocos (Keeling) Islands GIS

Medium :

Scale :

Contact : Keith Porritt

Type : One-Off Product

Sub Type : No Subtype Available

Project Id :

Pub'n Source :

Pub'n Year : 2005

Vol / Part :

ISBN :

Abstract : The Cocos (Keeling) Islands Geographic Information System (Cocos GIS) is a collection of spatial data, viewing and analysis tools dealing with the Cocos (Keeling) Islands. The data include orthophotography, topographic, cultural and environmental features both of the islands and the ocean immediately surrounding them.

----- **Bounding Rectangle** -----

N Latitude : -11.8

S Latitude : -12.25

W Longitude : 96.8

E Longitude : 96.95

Comments :

Data projection is Cocos (Keeling) Islands Grid 1992. Data scale is variable, due to the data being collated from various sources.

----- **List of Authors** -----**Name :**

1 Porritt, K.P.

2 Petersons, S.I.

Theme :

GIS

culture

information management

topography

The screenshot displays a web-based catalog entry for 'Cocos (Keeling) Islands GIS 2004'. The interface includes a top navigation bar with tabs for 'Main', 'Details', 'Files', and 'Images'. The 'Main' tab is active, showing a form with various fields for metadata and a map of Australia. The 'Details' tab is also visible. The form includes fields for 'Title', 'Type', 'Sub Type', 'Abstract', 'Source', 'Pub Year', 'Reliability Year', 'Edition', 'Volume/Map ID', 'Comments', 'Contact', 'Supplier', 'Licence', and 'Division'. A 'Select Flag' section allows users to select flags for 'Product', 'Resource', 'Dataset', 'Publication', 'Available', and 'Web Visible'. A 'Record Status' section shows 'Updateable'. A 'Legend' section shows 'Display Only', 'Mandatory', 'Admin Only', and 'Standard Text'. A 'Spatial Locator' section shows '1:100k Maps', '1:250k Maps', and '1:1m Maps'. The map of Australia shows the bounding box coordinates: N Lat -11.8, S Lat -12.25, W Long 96.8, and E Long 96.95.

Figure 17: Cocos GIS GA Catalog entry (#61840).-

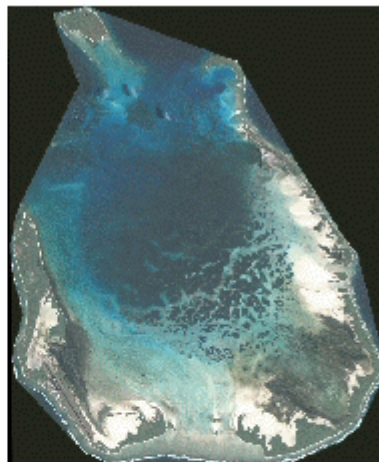
A black rectangular box containing the word "Chapter" in a small, white, sans-serif font at the top, and a large, white, sans-serif number "4" below it.

Appendix 1: Metadata

Hard copy versions of the electronic metadata sheets. These metadata sheets comply with ANZLIC core metadata standards.

Cocos (Keeling) Islands GIS Satellite Imagery

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Satellite Imagery

Top: Detail of Home Island

Above Left: Newly included image of North Keeling Island

Above Right: The Cocos Atoll

Dataset

Title	Satellite Imagery
Custodian	Geoscience Australia (GA)
Jurisdiction	Australia

Description	
Abstract	Pan-sharpened satellite imagery of the Cocos (Keeling) Islands recorded using the QuickBird Digital Globe satellite, taken over the islands in November 2003. Each pixel represent 0.6m.
Search Word(s)	PHOTOGRAPHY AND IMAGERY Imagery PHOTOGRAPHY AND IMAGERY Satellite
Geographic Extent Name(s)	Cocos (Keeling) Islands
Data Currency	
Beginning Date	05NOV2003
Ending Date	07NOV2003
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	as required
Access	
Stored Data Format	DIGITAL - ERMapper ECW & TIFF/TFW
Available Format Type	DIGITAL - ERMapper ECW & TIFF/TFW
Access Constraint	Please read the license agreement for limits to the access of the satellite imagery included on this CD. If you are unsure whether you are a registered user please consult this table .
Data Quality	
Lineage	Quickbird satellite imagery of Cocos Islands was commissioned by the Department of Environment and Heritage in mid 2003 and supplied to the Australian Government by DigitalGlobe in November 2003. The Quickbird satellite recorded reflectance data of the islands in the red, green, blue, near infra-red and panchromatic bands, in 11 bit format. All sharpened imagery has a resolution of 0.6m/pixel. Geoscience Australia was supplied with the full multi-spectral data for the Cocos (Keeling) Islands in the form of an 8 bit TIFF image containing the red, green, blue and near infra-red bands. The panchromatic band was also supplied as an 8-bit TIFF. Digital Globe undertook pan-sharpening of the satellite imagery, in the process dividing the imagery into four sections. Four 8-bit pan-sharpened TIFFs, one for each of the four sections, containing the red, green and blue bands

was supplied to GA. Each pixel on the pan sharpened imagery represents 0.6m. Further details regarding the satellite imagery can be viewed in the full DigitalGlobe documentation 'CocosGIS\data\sat_imagery\DigGlobe_productguide_2003.pdf'.

All satellite images were supplied to Geoscience Australia in WGS84 Geographics. GA joined the images using ER Mapper 6.4 and then using the ER Mapper Geocoding Wizard GA reprojected the full image into UTM GDA94. [Previously due to restrictions in computer processing power and a file size limit in ER Mapper 6.3 the four pan sharpened images were reprojected separately which led to gaps appearing at the joins in the four sections.

Also received from Digital Globe was a satellite image of North Keeling Island. As with the other satellite imagery this was supplied as a multi-chromatic, a pan-chromatic image and a pan sharpened the image. Using the ER Mapper Geocoding Wizard Geoscience Australia reprojected the image into UTM GDA94.

DigitalGlobe advise that the positional accuracy of the imagery is +/-14.7m RMSE. Due to this low level of positional accuracy, an x y shift was also applied to more accurately position the imagery by correlation with the lodged cadastre on screen as follows:

- Before cadastral re-alignment (see cadastre section of manual):
 - 16.9m East
 - 6.9m South
- After cadastral re-alignment
 - 2.4m West
 - 3.14m South

This shift brought the imagery inline with the current cadastre and reprojected orthophotography.

Due to disk space limitations these images are stored in ECW (Enhanced Compressed Wavelet) format. The main Cocos island group is stored in the 'CocosGIS\data\sat_imagery\ecw' directory

	under the filename of 'cocos_satim.ecw'. The North Keeling Island ECW is located in the same directory with the filename 'nth_keeling.ecw'
Full notes from Cocos GIS 2003 release	The satellite imagery was supplied in WGS84 Geographics. Due to limitations of software and hardware Geoscience Australia projected the four 8 bit pan-sharpened TIFF images of the main atoll into UTM WGS84. The four reprojected TIFFs were then joined. As a result gaps between the four sections of imagery were apparent. The image in it's entirety was saved as an Enhanced Compressed Wavelet (ecw) image, where each pixel represented 0.6 metres. Nineteen 1km x 1km TIFF images, and two 1.5km x 1km TIFF images covering Home, West and Direction island were created from the image and are included with the 2004 release of the GIS. Geoscience Australia shifted the ecw image (x +16m, y - 7m) to match the more accurately positioned 2003 cadastre shapefile and the orthophotography. The TIFFs over Home and Direction Islands (x +16m, y-7m) and West Island (x +14m, y -9m) were also shifted to align with the orthophotography and 2003 cadastre.
Positional Accuracy	The satellite imagery has been shifted to match the 2003 cadastre. Positional accuracy of the satellite imagery therefore mimics the accuracy of cadastre2003.shp.
Attribute Accuracy	not applicable
Logical Consistency	not applicable
Completeness	Complete
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6274 6124
Facsimile	(02) 6274 8040
Electronic Mail	sean.hambrookzzzz@zzzag.gov.au (Anti-spam

Address	method - remove the two 'zzz' to use this email)
Metadata Date	18-02-2005
Additional Metadata	
Projection	UTM (GDA94) zone 47 S

Cocos (Keeling) Islands GIS Orthophotography

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Orthophotography

Orthophotography covers all Cocos Islands.

The sample (left) shows the vicinity of the jetty on Home Island



Dataset	
Title	Orthophotography
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	Orthophotography of the Cocos (Keeling) Islands, based upon aerial photography taken over the islands in 1987 (islands only, not including the lagoon).
Search Word(s)	PHOTOGRAPHY AND IMAGERY Aerial PHOTOGRAPHY AND IMAGERY Orthophotography
Geographic Extent Name(s)	Cocos (Keeling) Islands
Data Currency	
Beginning Date	05APR1987
Ending Date	05APR1987
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	as required
Access	
Stored Data Format	DIGITAL - ERMapper ERS & TIFF/TFW

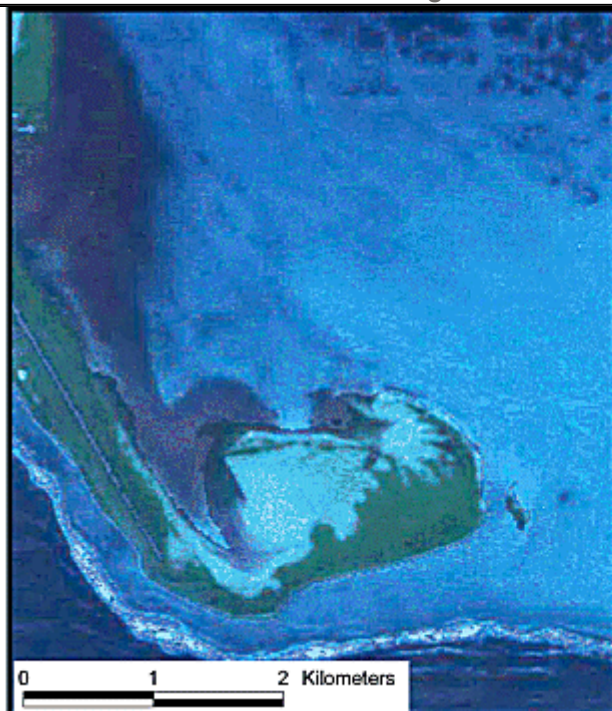
Available Format Type	DIGITAL - ERMapper ERS & TIFF/TFW
Access Constraint	See contact details below.
Data Quality	
Lineage	Aerial photography was flown by Australian Survey Office Canberra in 1987, scanning was done by Kevron Aerial Surveys and orthorectification by LandInfo (Canberra) in 2000. In December 2003 GA projected the data to UTM (WGS84) zone 47S. In February 2005 GA reprojected the imagery as a whole and re-cut the tiff imagery to improve visualisation of data.
Positional Accuracy	GA expects the Cocos orthophotography over the main atoll to be within a meter of its true position. Exceptions to this high level of accuracy are Horsborough Island and North Keeling Island, which are on unconnected flight lines and did not have reliable ground control available. Initial indications are that the North Keeling orthophotography could be around 35 meters out, and the Horsborough Island orthophotography could be up to 20 meters out.
Attribute Accuracy	not applicable
Logical Consistency	not applicable
Completeness	Appears complete for all areas. Georeferencing of Horsburgh and North Keeling Islands has not proven to be very accurate.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6274 6124
Facsimile	(02) 6274 8040
Electronic Mail Address	sean.hambrookzzzz@zzzag.gov.au (Anti-spam method - remove the two 'zzz' to use this email)
Metadata Date	13-1-2004

Additional Metadata

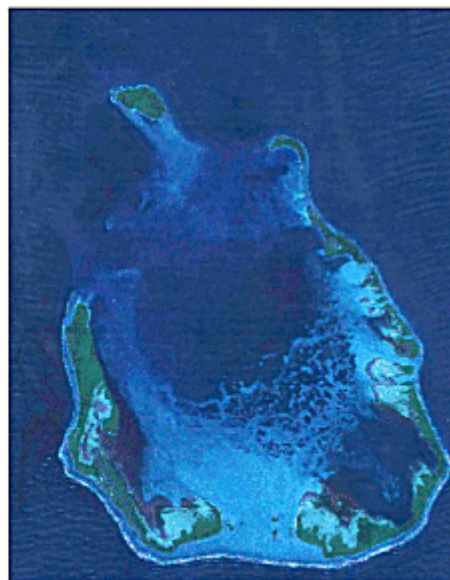
Projection	UTM (WGS84) zone 47S
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Cocos (Keeling) Islands GIS Spot Satellite Image

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Spot Imagery



Dataset	
Title	Spot Image
Custodian	Geoscience Aust Organisation (AGSO)
Jurisdiction	Australia
Description	
Abstract	A multi spectral spot image was used in a poster that was published by AUSLIG in 1992. This image (not the poster) was then scanned by AGSO on September 4th, 2000. Both TIFF and JPG files exist. This image was created to be used in areas (eg. center of southern atoll) where there was no orthophotography coverage. This TIFF image is best used at a scale no less than 1:50000, zooming in past this results in a pixelated image and a loss of definition.
Search Word(s)	PHOTOGRAPHY AND IMAGERY Multi Spectral PHOTOGRAPHY AND IMAGERY Spot
Geographic Extent Name(s)	Cocos (Keeling) Islands
Data Currency	
Beginning Date	01APR1987
Ending Date	01APR1987

Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not planned
Access	
Stored Data Format	DIGITAL - TIFF/TFW & JPG NON DIGITAL - Hardcopy poster
Available Format Type	DIGITAL - TIFF/TFW & JPG
Access Constraint	See contact details below.
Data Quality	
Lineage	Spot satellite imagery was originally aquired in April 1987. This was then made into a poster and publised by ANZLIC in 1992. Since then the image has been scanned by AGSO (September 2000) using a high resolution drum scanner. The image is in TIFF format and has been geolocated and a TWF file created.
Positional Accuracy	The TFW file was created by matching the TIFF image against the vector line work of the southern atoll. Because of the loss of definition as you zoom in on the image, the lines cannot be matched very precisely. This results in positional accuracy around 40m of reference lines.
Attribute Accuracy	not applicable
Logical Consistency	not applicable
Completeness	Both the scan of the Spot image and the geolocation is complete and no changes or amendments are planned.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6274 6124
Facsimile	(02) 6274 8040
Electronic Mail Address	sean.hambrookzzzz@zzzag.gov.au (Anti-spam method - remove the two 'zzz' to use this email)
Metadata Date	24-07-2000

Additional Metadata

Projection

Cocos (Keeling) Islands Grid 1992 (CKIG92)

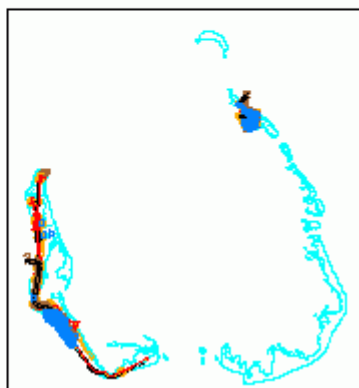
Cocos (Keeling) Islands GIS Utilities

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Utilities

Fuel
Gas
Power
Telecommunications
Waste water
Water supply

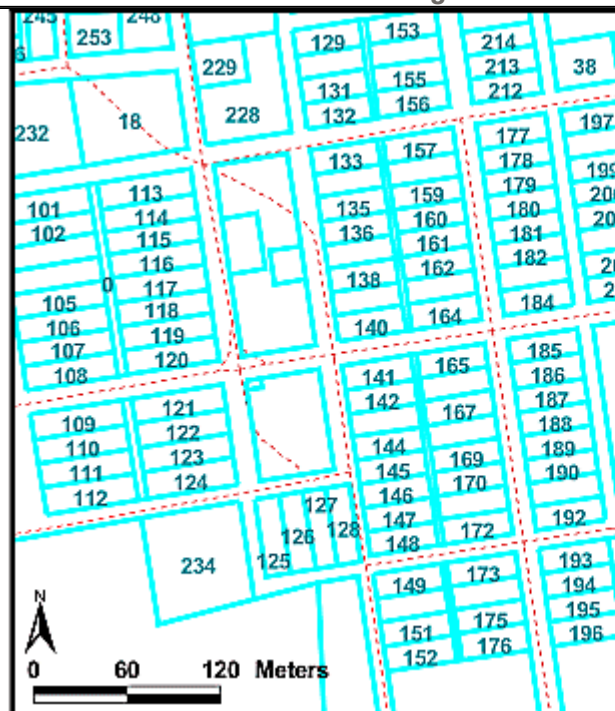


Dataset	
Title	Utilities
Custodian	Geoscience Australia (GA)
Jurisdiction	Australia
Description	
Abstract	This dataset contains point, line and polygon water supply, waste water, power, fuel, gas and telecommunications data for the Cocos (Keeling) Islands. Coverage is of Home and West Islands.
Search Word(s)	LAND utilities
Geographic Extent Name(s)	Cocos (Keeling) Islands
Data Currency	
Beginning Date	1994
Ending Date	25-03-2003
Dataset Status	
Progress	complete
Maintenance and Update Frequency	As required
Access	
Stored Data Format	ESRI Shapefile, DGN, DXF, DWG
Available Format Type	ESRI Shapefile

Access Constraint	Restricted, see contact details below
Data Quality	
Lineage	GA received ESRI shapefiles for telecommunications, gas and fuel, water supply, waste water, and power datasets. The shapefiles were in CKIG92. GA projected these shapefiles into UTM (WGS84) zone 47S. Lineage prior to receipt by GA can be viewed in the original documentation .
Positional Accuracy	Some positional errors persist in the data.
Attribute Accuracy	These details are believed to be true and accurate.
Logical Consistency	appears consistent.
Completeness	complete.
Contact Information	
Contact Organisation	Department of Transport and Regional Services
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6274 6124
Facsimile	(02) 6274 8040
Electronic Mail Address	sean.hambrookzzz@zzzag.gov.au (Anti-spam method - remove the two 'zzz' to use this email)
Metadata Date	19-01-04
Additional Metadata	
Projection	UTM (WGS84) Zone 47S

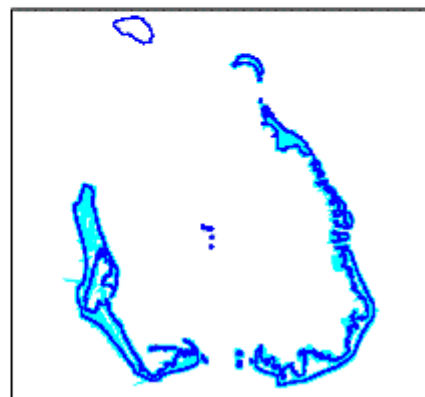
Cocos (Keeling) Islands GIS Cadastral

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Cadastral

Cadastral



Dataset

Title	Cadastral
Custodian	Department of Land Administration (DOLA)
Jurisdiction	Western Australia

Description

Abstract	This dataset contains polygon cadastral data and non-spatial attribute data for the Cocos (Keeling) Islands. Horsburgh Island and North Keeling Atoll are not included in this dataset.
Search Word(s)	LAND Cadastral LAND Ownership
Geographic Extent Name(s)	Cocos (Keeling) Islands

Data Currency

Beginning Date	Not known
Ending Date	AUG2004

Dataset Status

Progress	Complete
Maintenance and Update Frequency	not known

Access

Stored Data Format	DIGITAL - ESRI Shapefile
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Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	Please read the license agreement for limits to the access of the satellite imagery included on this CD. If you are unsure whether you are a registered user please consult this table .
Data Quality	
Lineage	In December 2004 Geoscience Australia received the scheduled cadastral update from Tony Yeomans of the Department of Land Information (DLI, formerly DoLA). This update consisted of two ESRI shapefiles and two access databases. One of the ESRI shapefiles contains current property boundary information and the other contains lodged changes to property boundaries. Both ESRI shapefiles arrived at Geoscience Australia pre-projected in UTM (GDA94). The reason for differences between the lodged cadastre and the current cadastre is that current data could have been calculated or digitized, etc. When lodged data is integrated into current, the area is spatially upgraded with the new survey data (lodged data) as this would be more accurate. One access database contained data relating to tenure information including address. The other contained data on reserves. In January 2005 Geoscience Australia also obtained ground audit data from Peter Brockmulen of the Department for Planning and Infrastructure (DPI, formerly DoLA). This ground audit was conducted in 2004 at the request of the Department of Territories and Rural Services in Western Australia. It contains data describing land use and reserve usage. To produce the final cadastral information the files were modified and combined as follows. Due to initial consultation with users of the GIS it was decided to keep the cadastre containing current property boundaries and the cadastre containing lodged changes to property boundaries separate. As such the following changes were made to each file separately. Additionally the

	cadastral boundary for North Keeling Island, taken from the last version of the cadastre, was joined to the current cadastre shapefile. From discussion with users of the GIS it became apparent that the field LOT_TYPE was causing confusion with it's meaning. This is because it is a computer generated field that does not reflect the tenure of the land. Instead land tenure is derived from the PI_PARCEL field. To avoid this problem Geoscience Australia removed the LOT_TYPE field and replaced it with a TENURE field derived from the PI_PARCEL field and based on the definitions from the NORM manual as supplied by DLI. Using tenure information from the database supplied by DLI and from the land audit information supplied by Peter Brockmulen, Geoscience Australia joined on the fields ADDRESS, ZONING, RESERVE, PURPOSE and MANAGEMENT were joined on lot number. For multiple instances of lot numbers information was entered manually based on the land audit information supplied by Peter Brockmulen. From reserve data supplied by DLI the fields RSV_VESTIN, RESERVE_US and LGA were joined using the PIN field. Finally Geoscience Australia made the decision to move the cadastral data to be in line with previous data such as orthophotography. As such the following xy shift was used on both the cadastre and the lodged shape files: • X+3.26m • Y-1.04m This set cadastre data within 0.1m of older versions. In the future Geoscience Australia plans to asses the positioning of the cadastre based on the GPS ground control station on West Island and the satellite imagery. In the 'cadastre_dli' folder of the cadastre directory is included the lodged and cadastre shape files as projected by DLI but with all data joined.
Notes of Previous Versions.	Territories Office contract DOLA to maintain this data under a 'Service Delivery Arrangement'. Prior

to 1992 AUSLIG maintained the data on behalf of Territories Office.

August 2004: Geoscience Australia was supplied with the latest Cocos (Keeling) Islands cadastre by DOLA in Western Australia as an ESRI shapefile. This included for the first time a polygon for North Keeling Island which outlined the coast.

The following steps were carried out to merge the cadastre with previously collected ground audit data:

1. The cadastre was supplied to Geoscience Australia in two halves. One contained leaseholds that were current and the other contained leaseholds that had been lodged to be changed. A new field was added to each cadastre called 'legal_stat' standing for Legal Status. In the cadastre of current leases this was set to 'final' and in the cadastre of lodged leases this was set to 'lodged'.
2. The lodged and current cadastrals were combined to form a full cadastre of the Cocos (Keeling) Islands.
3. This new cadastre and the previous version's cadastre were linked via polygon pin number. This allowed GA to separate those polygons which were had different pin numbers in the new cadastre.
4. Those polygons which had not changed were joined to the additional data on pin number.
5. Polygons which had new pin numbers were joined to the ground audit data with a spatial join.
6. The tables containing the unchanged polygons and the new polygons were then merged to create the current cadastre.
7. Duplicate fields in the cadastre were removed preserving the latest data available.
8. This new cadastre was then incorporated into the Arc View and Arc Explorer projects.

These changes were made using Arc View.

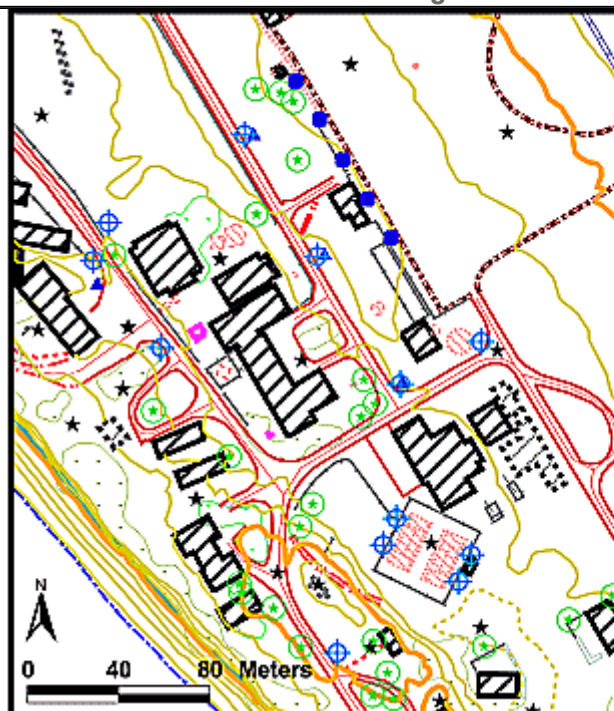
December 2003: GA received an updated cadastre from GHD Pty Ltd in the CKIG92 projection. This 2003 cadastre shapefile, and all previous versions of the cadastre were projected to UTM(WGS84)

	zone 47S for addition to the 2003 GIS March 2003: Geoscience Australia obtained a resupply of the Cocos cadastre from DOLA via Nic dell'Aquila, Territories Office Canberra. The date of the shapefiles DOLA supplied were 7/2/03. The projection was geographics. Geoscience Australia projected the cadastre to CKIG92 using Arc View 3.2. Then using ArcGIS with all the new layer selected one node was snapped to the prior Cocos GIS cadastre. For the south eastern islands the prior polygons were used as these again did not match by around 40 meters. See the following lineage for an explanation. The prior attributes were again joined in to the DOLA cadastre. February 2000: AGSO projected the data from Geographic (WGS84) to Cocos (Keeling) Islands Grid 1992 using ArcView 3.2a projection utility. Deleted erroneous polygons (large area, small visible extent) from shapefile after checking that they were spatially non-unique and contained no attributes. AGSO also joined Cocos ground audit data acquired as a DBF to the cadastre table. August 2000: AGSO moved all small islands between Home Island and South Island to match the orthophotography. This was done by manually editing the shapefile in ArcView 3.2 (XY-shift and/or Stretch). Islands which formed logical groups were moved/stretched as a group in order to minimise modification of the original data. August 2000: AGSO warped South Island and all nearby small islands to visually match the orthophotography (translation/rotation/stretching was not adequate). This was done using the ShapeWarp 2.2 ArcView Extension and a third-order polynomial fit on 28 Ground Control Points which resulted in an RMS Error of 4.58057.
Positional Accuracy	Absolute positional accuracy is not known. Because this is understood to be the islands' authoritative cadastre, the cadastre has been used as the reference dataset. Comparison with the Orthophotography and other datasets indicate that for islands other than the main islands, accuracy may not be as high as hoped. For South Island, prior to AGSO's warping it to match the orthophotography, mismatches with the

	orthophotography were up to approximately 45 metres. Following warping, mismatches are up to approximately 5 metres.
Attribute Accuracy	not known (The field <i>A_Pin</i> was assumed equivalent to the <i>Pin</i> field in the Ground Audit data and the tables were joined. For a discussion of AGSO's evaluation of Ground Audit attribute accuracy see the System Documentation).
Logical Consistency	This shapefile contains lines that denote cadastral boundaries. Through their use, it has been noted that the spatial content is complete and consistent in describing cadastral boundaries. Attribute data contains fields that are not completely filled however all records have a unique ID number.
Completeness	Appears complete for areas other than Horsburgh and North Keeling Islands. Attributes are apparently not complete (there are a lot of blank entries where, for GIS use, entries should not be blank).
Contact Information	
Contact Organisation	Department of Land Administration (DOLA)
Contact Position	Product Officer, Land Enquiry Centre
Mail Address	PO Box 2222
Locality	Midland
State	Western Australia
Country	Australia
Postcode	6936
Telephone	(08) 9273 7344
Facsimile	(08) 9273 7655
Electronic Mail Address	Tony_Yeomanszzzz@zzzdola.wa.gov.au(Anti-spam method - remove the two 'zzz' to use this email)
Metadata Date	19-01-2004
Additional Metadata	
Projection	UTM(WGS84) Zone 47 - originally supplied as Geographic (WGS84) projection.

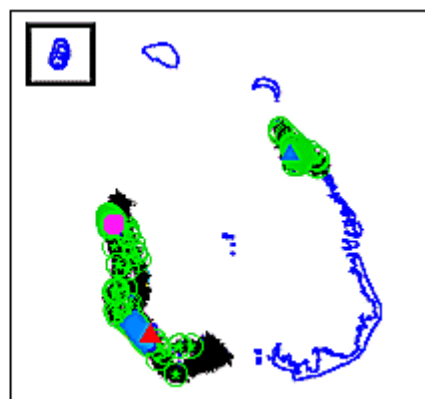
Cocos (Keeling) Islands GIS Topography

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Topography

Infrastructure
Topography
Roads
Hydrography
Airport Infrastructure



Dataset

Title	Topography
Custodian	Geoscience Australia (GA)
Jurisdiction	Australia

Description

Abstract	This dataset contains point, line and polygon topographic and cultural data for the Cocos (Keeling) Islands. Coverage is of Home and West Islands. To view a sample of the data showing the ArcView legend click here .
Search Word(s)	LAND Topography
Geographic Extent Name(s)	Cocos (Keeling) Islands

Data Currency

Beginning Date	not known
Ending Date	not known

Dataset Status

Progress	complete
Maintenance and Update Frequency	not known

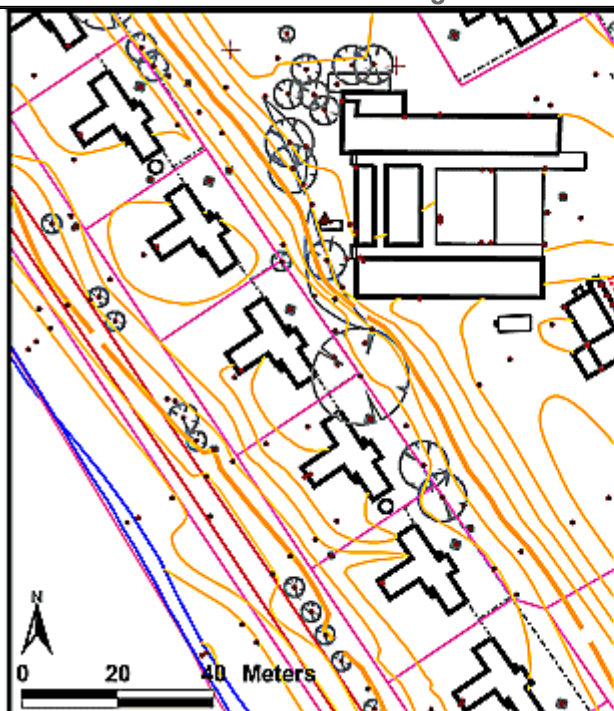
Access

Stored Data Format	ESRI Shapefile, DGN
Available Format Type	ESRI Shapefile
Access Constraint	not known
Data Quality	
Lineage	Obtained from LandInfo (Sinclair Knight Mertz) 8/12/99 who retained the data from a project previously undertaken by the Australian Surveying and Land Information Group (AUSLIG) for the Territories Office earlier in the decade. Lineage is not known prior to receipt by GA as no metadata was received. GA converted the DGN files received into ESRI Shapefiles and projected the files to CKIG92. The files were renamed to reflect their content. Some features which were illogical were deleted (eg. Polygon contours, Runway lights labeled as golf tees). In December 2003, GA projected the topography data to UTM(WGS84) Zone 47S.
Positional Accuracy	In this GIS system the Cadastre was taken as the reference dataset. For West Island the position of features is accurate. For other islands the position of features is up to 5 metres displaced from the Cadastre. The accuracy of features in the third dimension is questionable (there are spikes in the data that are probably not real).
Attribute Accuracy	Height attributes are incomplete. Polygon runway lights were labeled as golf tees. Otherwise attributes appear to be accurate.
Logical Consistency	Appears consistent.
Completeness	Appears complete.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6274 6124
Facsimile	(02) 6274 8040
Electronic Mail	sean.hambrookzzz@zzzag.gov.au (Anti-spam

Address	method - remove the two 'zzz' to use this email)
Metadata Date	19-01-2004
Additional Metadata	
Projection	UTM (WGS84) Zone 47S

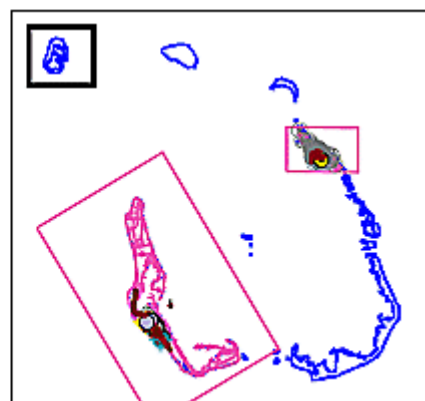
Cocos (Keeling) Islands GIS Detailed Survey

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Detailed Survey

Points
Topography
Roads
Miscellaneous
Culture



Dataset

Title	Detailed Survey
Custodian	Geoscience Australia (GA)
Jurisdiction	Australia

Description

Abstract	This dataset contains points, lines and polygon data of topographical, cultural and infrastructural features. A sample of the Arc View legend that accompanies the above view can be seen here . This dataset covers all of Home Island and most of West Island however the detail is lost outside of the built up areas. The other islands and North Keeling Atoll are not included in this dataset.
Search Word(s)	HUMAN ENVIRONMENT Planning LAND Survey LAND Use
Geographic Extent Name(s)	Cocos (Keeling) Islands

Data Currency

Beginning Date	not known
Ending Date	not known

Dataset Status

Progress	Complete
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Maintenance and Update Frequency	not known
Access	
Stored Data Format	DIGITAL - ESRI Shapefile, DGN files
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below.
Data Quality	
Lineage	Not known prior to receipt by GA. GA converted the DGN files to shapefile format (annotation to coverage). GA projected the data to CKIG92, split the data into logical divisions for ease of use, deleted or corrected some erroneous features, and improved the attribution. In December 2003, GA projected the data into UTM (WGS84) zone 47S using Arcview.
Positional Accuracy	Appears to match orthophotography quite well. General accuracy over populated areas is good; other areas are much lower resolution. Specifically, many housing features do not appear to match actual ground features, and may have been derived from a conceptual plan not actually implemented.
Attribute Accuracy	Many features do not appear to be correctly attributed (eg. map tic marks attributed as pipes). Many features are not attributed (eg. trees). Most features appear correctly attributed.
Logical Consistency	This data seems to be a compilation of data from a variety of scales and sources. It is not consistently accurate and contains apparent duplication of features attributed differently.
Completeness	Data collection appears complete for the islands but as specified in the abstract, does not include the islands other than Home Island and West Island, and only contains detailed data over populated areas.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601

Telephone	(02) 6274 6124
Facsimile	(02) 6274 8040
Electronic Mail Address	sean.hambrookzzz@zzzag.gov.au (Anti-spam method - remove the two 'zzz' to use this email)
Metadata Date	13-01-2004
Additional Metadata	
Projection	UTM (WGS84) zone 47

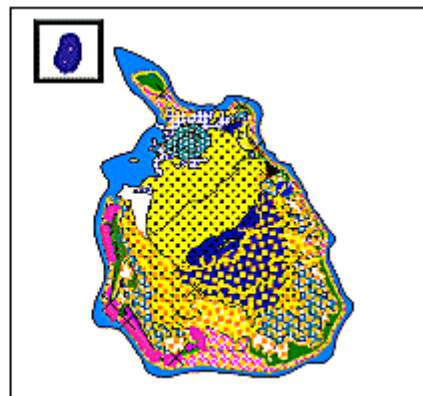
Cocos (Keeling) Islands GIS

Land Use Plan & Planning Scheme

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Landuse and Planning Scheme
 Topography & Vegetation
 Planning Options & Preferences
 Habitat & Lagoon Areas
 Marine & Recreation Areas
 Landuse Zones



Dataset

Title	Cocos (Keeling) Islands Land Use Plan and Planning Scheme 1992 GIS Database
Custodian	Cocos (Keeling) Islands Council
Jurisdiction	Cocos (Keeling) Islands

Description

Abstract
 This dataset contains planning related cultural and environmental layers. Source data is of variable resolution as outlined in the [original documentation](#). Standard attributes such as UFI, AREA and PERIMETER, LENGTH will be in addition to those in the following table. UFI is a unique feature identifier.

Layers include:

SHAPEFILE NAME	FEATURES	EXTENT	FEATURE CLASS	ATTRIBUTES
airport.shp	Runway and parking area	West Island	Polygon	FEATURE; DESC
erosion.shp	Erosion prone coastline; Potential breach areas	West Island	Line	CODE; FEATURE; DESC
habitat.shp	Migratory bird habitats	Southern Atoll	Polygon	TYPE; FEATURE; DESC; SPECIES
islands.shp	Coastline	Southern Atoll	Polygon	FEATURE; DESC; HECTARES

lagoon.shp	Reef outline; Coastline	Southern Atoll	Polygon	ZONE; FEATURE; DESC
landuse.shp	Coastline; Cadastral boundaries; Existing land use	Southern Atoll	Polygon	USE; FEATURE; DESC
marine.shp	Coastline; Marine habitats	Southern Atoll	Polygon	CODE; FEATURE; DESC; HABITAT; HABITATG
marres.shp	Coastline; Important marine areas	Southern Atoll	Polygon	TYPE; FEATURE; DESC
nklagoon.shp	Reef outline; Coastline	North Keeling Island	Polygon	ZONE; FEATURE; DESC
nksites.shp	Heritage sites	North Keeling Island	Point	TYPE; FEATURE; DESC
nkuse.shp	Coastline; Cadastral boundaries; Existing land use	North Keeling Island	Polygon	USE; FEATURE; DESC
northk.shp	Coastline	North Keeling Island	Polygon	FEATURE; DESC; HECTARES
option.shp	Coastline; Planning options	Southern Atoll	Polygon	OPT; FEATURE; DESC
pref.shp	Coastline; Preferred planning options	Southern Atoll	Polygon	OPT; FEATURE; DESC
recres.shp	Coastline; Recreation facilities and water-based activities	Southern Atoll	Polygon	TYPE; FEATURE; DESC
reef.shp	Reef outline	Southern Atoll	Polygon	None
roads.shp	Sealed and unsealed roads; Cycle path	Southern Atoll	Line	TYPE; FEATURE; DESC
rubbish.shp	Coastline; Rubbish problem areas	Southern Atoll	Polygon	DUMP; FEATURE; DESC
sites.shp	Heritage sites	Southern Atoll	Point	TYPE; FEATURE; DESC
sites2.shp	Heritage sites	Southern Atoll	Polygon	TYPE; FEATURE; DESC
topo.shp	Coastline; Reef flat; Lagoon; Beaches; Swamps	Southern Atoll	Polygon	FEAT; FEATURE; DESC
tourist.shp	Proposed tourist development areas	Southern Atoll	Polygon	None
utilslin.shp	Public utilities and services infrastructure	Southern Atoll	Line	TYPE; FEATURE; DESC; LABEL
utilspnt.shp	Public utilities and services infrastructure	Southern Atoll	Point	TYPE; FEATURE; DESC; LABEL

	veg.shp	Coastline; Native vegetation communities	Southern Atoll	Polygon	TYPE; FEATURE; DESC
	veg2.shp	Coastline; Vegetation structure	Southern Atoll	Polygon	STRUC; FEATURE; DESC
	water.shp	Known and potential groundwater lenses	Southern Atoll	Polygon	LENS; FEATURE; DESC
	zone.shp	Coastline; Statutory land use plan	Southern Atoll	Polygon	ZONE; FEATURE; DESC
	psm.shp	Survey marks	West Island; Home Island	Point	PSM; DESC; AS2482; HEIGHT
Search Word(s)	HUMAN ENVIRONMENT Planning HUMAN ENVIRONMENT Structures and Facilities HUMAN ENVIRONMENT Urban Design				
Geographic Extent Name(s)	Cocos (Keeling) Islands				
Data Currency					
Beginning Date	not known				
Ending Date	1 Jan 1992				
Dataset Status					
Progress	Complete				
Maintenance and Update Frequency	Not Known				
Access					
Stored Data Format	ESRI Shapefile				
Available Format Type	ESRI Shapefile				
Access Constraint	Not Known				
Data Quality					
Lineage	For lineage prior to receipt by AGSO, see original documentation (PDF). GA merged southern atoll layers where islands were separate layers, added FEATURE and DESC fields to shapefiles (description sourced from documentation and/or look-up tables). The FEATURE field contains short, upper case entries without spaces (facilitating portability). GA added UFI (Unique Feature Identifier) fields to all attribute tables. For the marine.shp shapefile, the original TYPE field				

	was used to populate the new FEATURE and DESC fields. HABITAT is a description of the CODE field. HABITATG is a grouping of the CODE field as outlined in the original documentation for the <i>marres2</i> coverage. In December 2003 GA projected the data to UTM (WGS84) zone 47S.
Positional Accuracy	Variable. For descriptions of accuracy see the original documentation.
Attribute Accuracy	not known
Logical Consistency	not known
Completeness	Appears complete for areas other than Horsburgh and North Keeling Islands.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6274 6124
Facsimile	(02) 6274 8040
Electronic Mail Address	sean.hambrookzzz@zzzag.gov.au (Anti-spam method - remove the two 'zzz' to use this e-mail)
Metadata Date	13-1-2004
Additional Metadata	
Projection	UTM (WGS84) zone 47S - originally supplied as Universal Transverse Mercator (UTM) Zone 47S (WGS72) projection.

Cocos (Keeling) Islands GIS
Cocos (Keeling) Islands GPS Tracks
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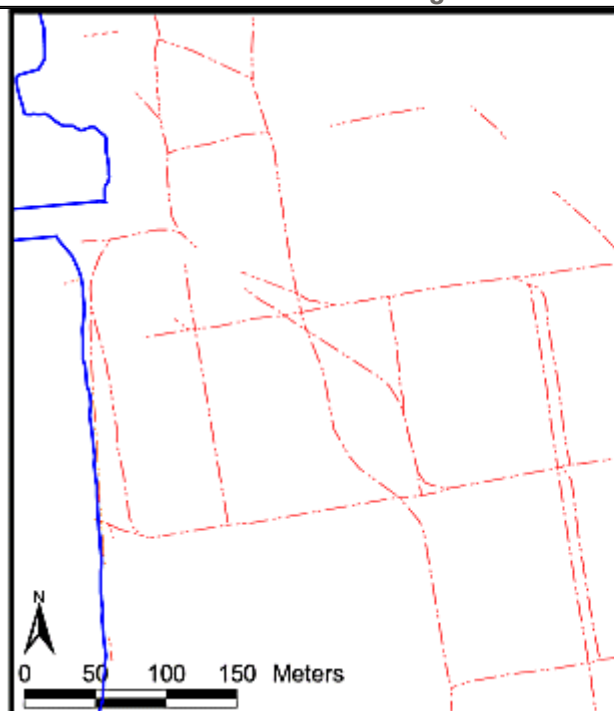
Dataset	
Title	Cocos (Keeling) Islands GPS Tracks - Downloads from GPS of on-Island Trips
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	This dataset consists of GPS data from Cocos (Keeling) Island visitors who track their travels around the island group using GPS units. This is useful to test the accuracy of aerial imagery and road \ track location data. The inter-island ferry is also being tracked to provide location data on the various wharves and landing sites that are used as well as the local shipping channels. The GPS measurements may not be highly accurate and have infrequent points around corners. However, over many traverses the positional accuracy of the Cocos GIS datasets is proving to be better than expected.
Search Word(s)	COCOS (KEELING) ISLANDS GPS TRACK DATA COCOS (KEELING) ISLANDS GPS ROAD DATA COCOS (KEELING) ISLANDS GPS FERRY DATA
Geographic Extent Name(s)	Cocos (Keeling) Islands

Data Currency	
Beginning Date	May 2004
Ending Date	June 2005
Dataset Status	
Progress	Ongoing
Maintenance and Update Frequency	Annually if new data is provided
Access	
Stored Data Format	DIGITAL - ESRI Shapefile
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	Unrestricted
Data Quality	
Lineage	The GPS track data is derived from direct downloads from various GPS receivers using Garfield Pro or OZI explorer software. Data has been recorded in MGA(UTM Zone 47) projection so no dataset conversion has been necessary.
Positional Accuracy	This data set is only intended to verify the positional accuracy of imagery, existing road and track data etc. and have proven adequate for this purpose.
Attribute Accuracy	The GPS manufacturers claim an accuracy of +/- 5m RMS.
Logical Consistency	Consistency.
Completeness	This is an ongoing data set and over time will yield an up to date data set of road, track, wharf and ferry traffic channel locations for the Cocos (Keeling) Islands.
Contact Information	
Contact Organisation	Geoscience Australia (GA)
Contact Position	
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2609
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9983
Electronic Mail Address	keith.porrittzzz@zzzga.gov.au (Anti-spam method - remove the two 'zzz' to use this email)

Metadata Date	27-7-2005
Additional Metadata	
Projection	UTM (WGS84) zone 47S.

Cocos (Keeling) Islands GIS Road Centerlines

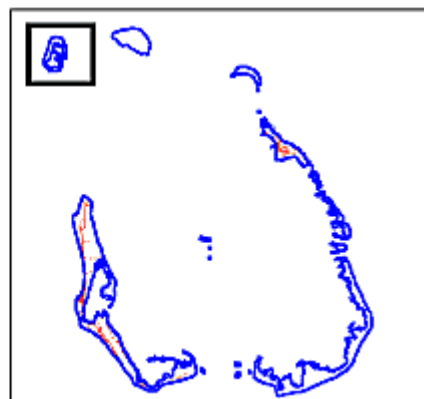
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Road Centerlines

Roads

- Kerbed Road
- Sealed Road
- - - Track
- - - Concrete Path



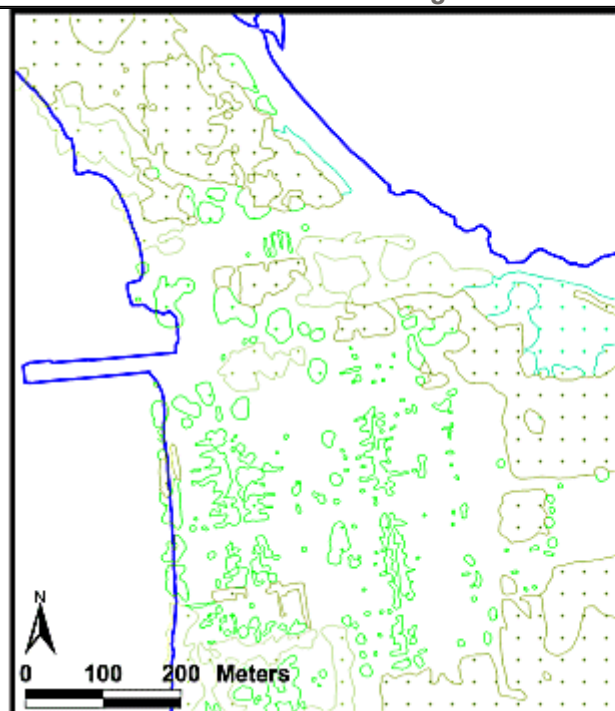
Dataset	
Title	Road Centerlines
Custodian	Geoscience Australia (GA)
Jurisdiction	Australia
Description	
Abstract	This dataset contains road centrelines for the Cocos (Keeling) Islands derived from topography. The coverage is the same as for the road edges in the source data (incomplete).
Search Word(s)	HUMAN ENVIRONMENT Urban Design TRANSPORTATION Land
Geographic Extent Name(s)	Cocos (Keeling) Islands
Data Currency	
Beginning Date	not known
Ending Date	not known
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not known
Access	
Stored Data Format	DIGITAL - ESRI Shapefile, ArcInfo Coverage

Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below
Data Quality	
Lineage	The road centerlines have been generated from the topography theme using the ArcInfo 8.0.2 command CENTERLINE. Road intersections and other errors were manually edited/corrected in ArcEdit. The final version was opened, checked and attributed in ArcView 3.2 and saved as an ESRI shapefile. Roads were only extended to form obvious intersections and no missing road sections were added (for consistency and due to the age of the orthophotography). In December 2003 GA projected the data to UTM (WGS84) zone 47S using ArcView.
Positional Accuracy	The road centrelines have a positional accuracy comparable to that of the road edges in the topography.
Attribute Accuracy	Attribute descriptions appear to match the feature types as visible on the orthophotography (1987).
Logical Consistency	This theme is a derivative of the infrastructure theme and thus all attributes are associated with this.
Completeness	Incomplete. The original feature data.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Assistant Director Policy, Non self governing Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6274 6124
Facsimile	(02) 6274 8040
Electronic Mail Address	sean.hambrookzzzz@zzzag.gov.au (Anti-spam method - remove the two 'zzz' to use this email)
Metadata Date	13-1-2004
Additional Metadata	

Projection	UTM (WGS84) zone 47S - originally supplied as assumed Universal Transverse Mercator (UTM) Zone 47S (WGS72) projection.
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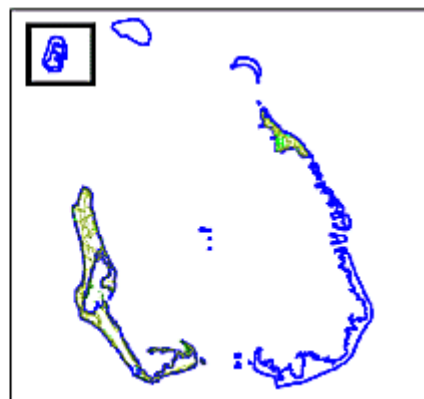
Cocos (Keeling) Islands GIS Vegetation

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Vegetation

Vegetation	
	BCG
	BCH
	BCI
	BDA
	BDC
	BDF
	BDG
	BDH
	BIAH



Dataset

Title	Vegetation
Custodian	Australian Geological Survey Organisation (AGSO)
Jurisdiction	Australia

Description

Abstract	This dataset is a polygon theme of vegetation types or structures of the Cocos (Keeling) Islands. It is derived from topography data (possibly 1:1000 scale) created by AUSLIG. The attributes are probably meaningless. Re-coding according to actual vegetation types is recommended if this layer is to be used for analysis. The vegetation appears to match the 1987 orthophotography, and would therefore be out of date in some areas (the 1992 planning data documentation reveals that areas have been cleared since the 1987 air photos). Coverage is over West and Home Islands.
Search Word(s)	ECOLOGY Ecosystem HERITAGE Natural
Geographic Extent	

Name(s)	Cocos (Keeling) Islands
Data Currency	
Beginning Date	not known
Ending Date	not known
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not known
Access	
Stored Data Format	DIGITAL - ESRI Shapefile, ArcInfo Coverage
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below
Data Quality	
Lineage	The vegetation theme was derived by GA from the topography data supplied by AUSLIG Canberra (via Landinfo). There are a number of features in the original topography data that do not have valid AUSLIG codes. Comparison with the orthophotography indicates that all these codes represent vegetation. GA has extracted these codes and created a polygon layer (in ArcInfo 8.1 Workstation) by including common lines as well as those coded as a particular type. The resulting layer is coded according to the erroneous codes in the original data. Because the level of detail is different from the vegetation layers in the planning data, correlation was not conclusive. Re-coding according to actual vegetation types is recommended if this layer is to be used for analysis. In December 2003, the vegetation data was projected to UTM(WGS84) Zone 47S for addition to the 2003 Cocos Islands GIS.
Positional Accuracy	The positional accuracy of this dataset is the same as the topography dataset that it was extracted from (its nominal scale is probably 1:1000). The vegetation appears to match the 1987 orthophotography, and would therefore be out of

	date in some areas (the 1992 planning data documentation reveals that areas have been cleared since the 1987 air photos)
Attribute Accuracy	Attributes are probably meaningless, as original codes were not according to the AUSLIG standards and no decoding sheet was available. Correlation with other vegetation coverages was not possible due to scale differences. Recoding according to actual vegetation types is recommended if this layer is to be used for analysis.
Logical Consistency	All themes are concerned with the vegetation on Cocos Islands.
Completeness	Appears complete for specified scale and extent.
Contact Information	
Contact Organisation	Attorney-General's Department
Contact Position	Territories
Mail Address	GPO Box 594, Canberra, A.C.T 2601
Locality	111 Alinga St, Canberra
State	A.C.T
Country	Australia
Postcode	2601
Telephone	(02) 6274 6124
Facsimile	(02) 6274 8040
Electronic Mail Address	sean.hambrookzzz@zzzag.gov.au (Anti-spam method - remove the two 'zzz' to use this email)
Metadata Date	19-01-2004
Additional Metadata	
Projection	UTM (WGS84) Zone 47S.

Cocos (Keeling) Islands GIS Cocos (Keeling) Islands GPS Tracks Home - Introduction - Getting Started - View Data - Metadata - Documents



Dataset	
Title	Cocos (Keeling) Islands GPS Tracks - Downloads from GPS of on-Island Trips
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	This dataset consists of GPS data from Cocos (Keeling) Island visitors who track their travels around the island group using GPS units. This is useful to test the accuracy of aerial imagery and road \ track location data. The inter-island ferry is also being tracked to provide location data on the various wharves and landing sites that are used as well as the local shipping channels. The GPS measurements may not be highly accurate and have infrequent points around corners. However, over many traverses the positional accuracy of the Cocos GIS datasets is proving to be better than expected.
Search Word(s)	COCOS (KEELING) ISLANDS GPS TRACK DATA COCOS (KEELING) ISLANDS GPS ROAD DATA COCOS (KEELING) ISLANDS GPS FERRY DATA
Geographic Extent Name(s)	Cocos (Keeling) Islands

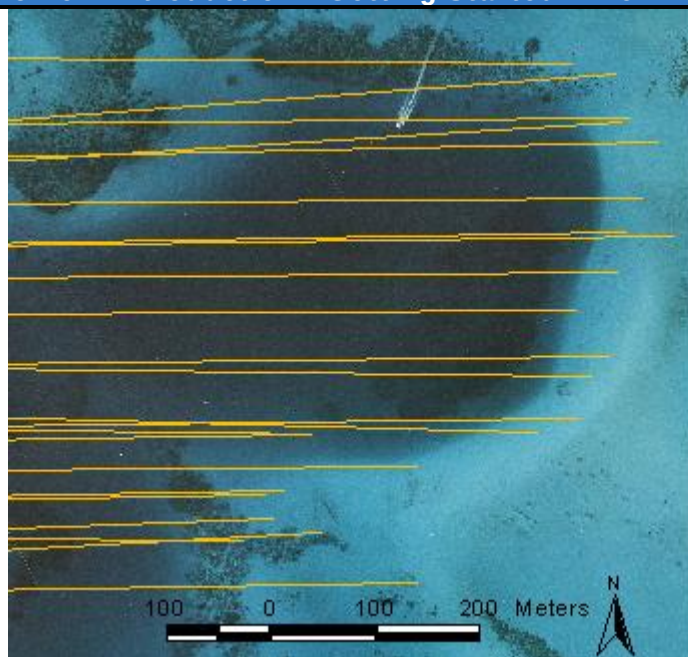
Data Currency	
Beginning Date	May 2004
Ending Date	June 2005
Dataset Status	
Progress	Ongoing
Maintenance and Update Frequency	Annually if new data is provided
Access	
Stored Data Format	DIGITAL - ESRI Shapefile
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	Unrestricted
Data Quality	
Lineage	The GPS track data is derived from direct downloads from various GPS receivers using Garfield Pro or OZI explorer software. Data has been recorded in MGA(UTM Zone 47) projection so no dataset conversion has been necessary.
Positional Accuracy	This data set is only intended to verify the positional accuracy of imagery, existing road and track data etc. and have proven adequate for this purpose.
Attribute Accuracy	The GPS manufacturers claim an accuracy of +/- 5m RMS.
Logical Consistency	Consistency.
Completeness	This is an ongoing data set and over time will yield an up to date data set of road, track, wharf and ferry traffic channel locations for the Cocos (Keeling) Islands.
Contact Information	
Contact Organisation	Geoscience Australia (GA)
Contact Position	
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2609
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9983
Electronic Mail Address	keith.porrittzzz@zzzga.gov.au (Anti-spam method - remove the two 'zzz' to use this email)

Metadata Date	27-7-2005
Additional Metadata	
Projection	UTM (WGS84) zone 47S.

Cocos (Keeling) Islands GIS

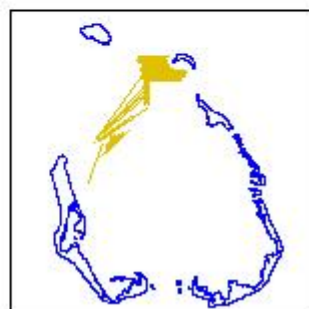
Sidescan Sonar Paths

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Sidescan Sonar

— Sonar Paths



Dataset	
Title	Sidescan Sonar Paths
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	This dataset shows paths taken by a vessel holding a Sidescan Sonar instrument within the waters of the Cocos (Keeling) Islands used by cargo ships.
Search Word(s)	SONAR Marine
Geographic Extent Name(s)	Cocos (Keeling) Islands
Data Currency	
Beginning Date	20NOV2002
Ending Date	17MAR2003
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not planned
Access	
Stored Data Format	DIGITAL - ESRI Shapefile
Available Format Type	DIGITAL - ESRI Shapefile

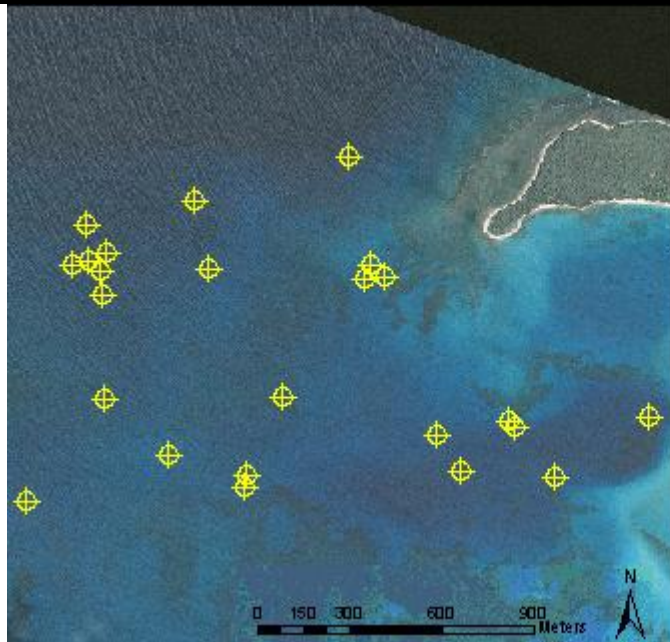
Access Constraint	See contact details below.
Data Quality	
Lineage	This data was originally provided as sonar video footage on CD-Rom, viewable with accompanying software (Imagenex Model 881 Sportscan Digital Sidescan Sonar V1.20). Using the latitude and longitude displayed at the beginning and end of the paths, the shapefile was made to represent the paths of the Sidescan Sonar. The shapefile represents the paths assuming travel was in a straight line from beginning to end. It is possible that the vessel wavered from this path. The data was projected to UTM (WGS84) zone 47S using ArcView.
Positional Accuracy	GA received little information regarding the positional accuracy of the sonar video footage. The cable length from the shipping vessel to the sidescan instrument is unknown and may cause errors in the data. It is also unknown whether corrections were performed to allow for movement of the instrument due to water currents. GA however believes errors to be within +/- 10m. Latitude and Longitude were both given to a hundredth of a minute.
Attribute Accuracy	The table attributes describe the path number.
Logical Consistency	The themes are used to describe the Sidescan Sonar paths.
Completeness	Is complete for the Sidescan Sonar footage which was provided by PANCKI.
Contact Information	
Contact Organisation	Geoscience Australia (GA)
Contact Position	
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2609
Telephone	(02) 6249 9479
Facsimile	(02) 6249 9983

Electronic Mail Address	keith.porrittzzz@zzzga.gov.au (Anti-spam method - remove the two 'zzz' to use this email)
Metadata Date	12-12-2005
Additional Metadata	
Projection	UTM (WGS84) zone 47S.

Cocos (Keeling) Islands GIS

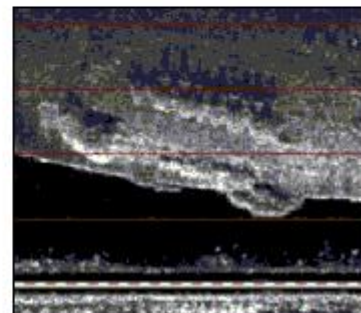
Sidescan Sonar Interesting Features

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Sidescan Sonar

 Interesting Features



Dataset	
Title	Sidescan Sonar Interesting Features
Custodian	Geoscience Australia
Jurisdiction	Australia
Description	
Abstract	This dataset shows features of particular interest within the Sidescan Sonar video footage. The features have not yet been defined as being natural or unnatural.
Search Word(s)	SONAR Marine SONAR Features
Geographic Extent Name(s)	Cocos (Keeling) Islands
Data Currency	
Beginning Date	20NOV2002
Ending Date	17MAR2003
Dataset Status	
Progress	Complete
Maintenance and Update Frequency	not planned
Access	

Stored Data Format	DIGITAL - ESRI Shapefile
Available Format Type	DIGITAL - ESRI Shapefile
Access Constraint	See contact details below.
Data Quality	
Lineage	This data was originally provided as sonar video footage on CD-Rom, viewable with accompanying software (Imagenex Model 881 Sportscan Digital Sidescan Sonar V1.20). Using the latitude and longitude displayed at the beginning and end of the paths, the shapefile was made to represent the paths of the Sidescan Sonar. The shapefile represents the paths assuming travel was in a straight line from beginning to end. It is possible that the vessel wavered from this path. The data was projected to UTM (WGS84) zone 47S using ArcView.
Positional Accuracy	GA received little information regarding the positional accuracy of the sonar video footage. The cable length from the shipping vessel to the sidescan instrument is unknown and may cause errors in the data. It is also unknown whether corrections were performed to allow for movement of the instrument due to water currents. GA however believes errors to be within +/- 10m. Latitude and Longitude were both given to a hundredth of a minute.
Attribute Accuracy	The table attributes describe the path number from which the features were seen.
Logical Consistency	The themes are used to describe interesting features in the Sidescan Sonar footage.
Completeness	Is complete for the Sidescan Sonar footage which was provided by PANCKI.
Contact Information	
Contact Organisation	Geoscience Australia (GA)
Contact Position	
Mail Address	Cnr Jerrabomberra Ave and Hindmarsh Drive
Locality	SYMONSTON
State	A.C.T
Country	Australia
Postcode	2609

Telephone	(02) 6249 9479
Facsimile	(02) 6249 9983
Electronic Mail Address	keith.porrittzzz@zzzga.gov.au (Anti-spam method - remove the two 'zzz' to use this email)
Metadata Date	12-12-2005
Additional Metadata	
Projection	UTM (WGS84) zone 47S.

Chapter 5

Appendix 2: CD-ROM HTML documentation

Hard copy print of the HTML pages comprising the autorun content for CD-ROM # 1.



Australian Government

Attorney-General's
Department

Geoscience Australia

Cocos Keeling Islands

Welcome...

This CD-ROM contains the Cocos (Keeling) Islands GIS and associated documentation.

Please note: If you intend to use the GIS on this CD-ROM you will at some stage need to install ArcExplorer (freeware) from [Getting Started](#).

To enter the CD-ROM please click [here](#) or on the above image.



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Cocos Keeling Islands GIS

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[::Cocos GIS Online](#)



Welcome...

Welcome to the 2009 Cocos Keeling Islands GIS. You can use the links on the left to navigate.

If this is your first time using the Cocos GIS please read the [Getting Started guide](#).



Australian Government

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Cocos Keeling Islands GIS

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Introduction

The Cocos (Keeling) Islands Geographic Information System (Cocos GIS) was compiled by Geoscience Australia on behalf of the Australian Commonwealth Attorney-General's Department .

High resolution satellite imagery of Cocos Islands has been included on the GIS.

Orthophotography has been created to resolution standards better than those in the Christmas Island GIS.

Data covering Cocos (Keeling) Islands have been obtained from the Australian Surveying and Land Information Group (AUSLIG - now the National Mapping Division of Geoscience Australia), the Western Australian Department of Land Administration (DOLA), the National Capital Planning Authority (NCPA), and the Commonwealth Environmental Resource Information Network (ERIN). These datasets have been integrated into the Cocos GIS and may be viewed using ESRI ArcExplorer or ESRI ArcView.



Australian Government

Attorney-General's
Department

Geoscience Australia

Cocos Keeling Islands GIS

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Getting Started

In order to have the Cocos Keeling Islands GIS fully functional, you will need to run a Microsoft Windows Operating System (Windows 95 or greater) and install the following:

- ESRI ArcExplorer GIS v2.0 or greater
- Earth Resource Mapping ER Viewer v2.0c or greater

It is assumed you will have Internet Explorer (or an alternative web browser) and Acrobat Reader already installed on your computer. If required Internet Explorer and Acrobat Reader can also be installed below.

You can run the Cocos GIS using either CD1 or CD2. However, it is advisable to load the data onto your hard drive if you want to manipulate any of the spatial data provided on the CD's. This can be done by following the steps below.

Step 1 Copy CD 1 to your hard drive

This section will guide you through copying the contents of CD1 to your hard drive.

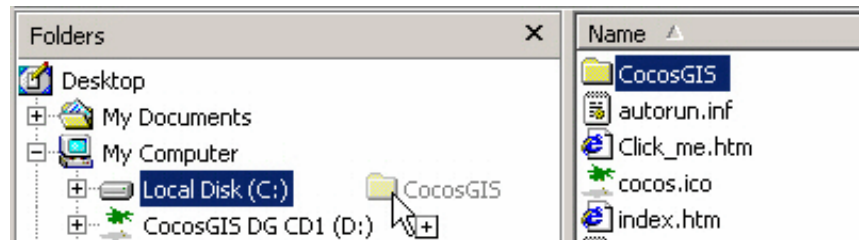
You currently have CD 1 in your PC's CD-ROM. Using Windows Explorer, click on your CD-ROM drive (usually "D"). You will now see the following directory structure.

Name ▲	Size	Type	Modified
CocosGIS		File Folder	13/10/2005 2:48
autorun.inf	1 KB	Setup Inf...	13/04/2003 12:25
Click_me.htm	2 KB	HTML Doc...	21/02/2005 4:19
cocos.ico	3 KB	Icon	25/10/2000 2:38
index.htm	2 KB	HTML Doc...	21/02/2005 4:19

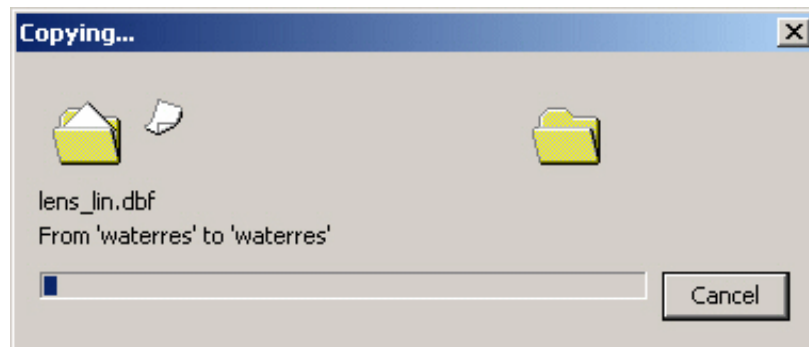
With the contents of CD 1 showing in Windows Explorer select "CocosGIS" by clicking on the folder once. As you can see below the colour of the folder turns blue.

Name ▲	Size	Type	Modified
CocosGIS		File Folder	13/10/2005 2:48
autorun.inf	1 KB	Setup Inf...	13/04/2003 12:25
Click_me.htm	2 KB	HTML Doc...	21/02/2005 4:19
cocos.ico	3 KB	Icon	25/10/2000 2:38
index.htm	2 KB	HTML Doc...	21/02/2005 4:19

With the cursor on the CocosGIS folder click and hold the left mouse button down. Drag it to your hard drive (usually "C") and release the mouse button.



The CocosGIS folder will begin to copy to your hard drive. This process will take a while.



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Step 2 Install Software

- [ESRI ArcExplorer GIS v2.0](#)
- [Earth Resource Mapping ER Viewer v7.0](#)

Note: Installation of software may require administrative privileges. Users in corporate environments may need to contact their system administrator for installation.

Installation of ESRI's ArcExplorer

ArcExplorer software is a lightweight GIS data explorer developed by ESRI (Environmental Systems Research Institute Inc) and has been supplied on this CD-ROM. Click the link below to install.

- [Install ArcExplorer v2.0](#)
- [ArcExplorer documentation](#)
- [If interested visit the ESRI website](#)
- [Back to top](#)

Installation of Earth Resource Mapping ER Viewer

ER Viewer allows viewing of all the orthophotography alone as a single ECW format image. Click the link below to install

- [Install ER Viewer v7.0](#)
- [If interested visit the ER website](#)

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Installation of Adobe's Acrobat Reader (usually already on your PC)

Adobe® Acrobat® Reader is free, and freely distributable software that lets you view and print Adobe Portable Document Format (PDF) files on all major computer platforms. Adobe Acrobat Reader provides a standard for reading documents and images regardless of word processor, spreadsheet or graphics package origin. Version 6 has been supplied on this CD-ROM. Click the link below to install.

- [Install Acrobat Reader v6.0](#)
- [If interested visit the Adobe website](#)

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Installation of Microsoft's Internet Explorer (usually already on your PC)

Microsoft Internet Explorer v6.0 has been supplied on this CD-ROM. Click the link below to install.

- [Install Internet Explorer v6.0](#)
- [If interested visit the Microsoft website](#)

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Step 3 View Data

- [View Cocos GIS Data using ArcExplorer](#)

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View Data - GIS ArcExplorer Projects

Note: The links below start ArcExplorer projects (providing ArcExplorer is installed on the computer - if it is not please see [Getting Started](#)). The ability to zoom, pan, identify etc is available in all projects. These projects have been created with themes loaded and the view zoomed to an appropriate area. Projects that use satellite image will take longer to load on slower computers.

- [Home Island \(Vector\)](#)

This view is located over Home Island and shows the vector data of houses in cadastral blocks. Individual cadastre parcels can be queried by using the "I"nformation tool.

- [Home Island \(Satellite Image\)](#)

This view is located just inland of the jetty and has the satellite image, infrastructure and cadastre layers turned on. Because the satellite image is turned on the page may load slowly, so please be patient.

- [West Island \(Satellite Image\)](#)

This view shows West Island infrastructure cadastre and topographic contours near the middle of the airport. It also has the satellite image turned on.

- [Power Infrastructure](#)

This view is zoomed in over Home Island and shows the power infrastructure present on the Island. This includes electrical cables, substations, meters, lightpoles, and switchboxes. Cadastre and satellite image layers have also been included.

- [Telecommunications Infrastructure](#)

This view is zoomed in over Home Island and shows the telecommunications infrastructure present on the Island. Cadastre and satellite image layers have also been included.

- [Waste Water Infrastructure](#)

This view is zoomed in over Home Island and shows the waste water infrastructure present on the Island. Cadastre and satellite image layers have also been included.

- [Water Supply Infrastructure](#)

This view is zoomed in over Home Island and shows the water supply infrastructure present on the Island. Cadastre and satellite image layers have also been included.

- [Gas and Fuel Infrastructure](#)

This view is zoomed in over West Island and shows the gas and fuel infrastructure present on the Island. Cadastre and satellite image layers have also been included.

- [West Island \(Vector\)](#)

This view shows West Island infrastructure cadastre and topographic contours near the middle of the airport.

- [Utilities Data](#)

This view has the current utilities data. Excellent water resources data such as galleries and pumps is available. The project is set up to facilitate cadastre identification through map tips.

- [Marine Plan](#)

This view is of the Cocos Southern atoll and shows the distribution of coral habitat.

- [Water Resources and Heritage](#)

This view is zoomed in over Home Island. The themes present in the view are taken from the Ecowise Water Resources directory and also from the National Estate Heritage directory.

- [Tile Plan with Spot Imagery](#)

This view is zoomed in over the southern islands. The themes present are infrastructure, cadastre, tile plan, heritage items from National Estate, and the spot image. The tile plan theme has been included so that higher resolution photos can be added to the view.

- [Home Island Land Use and Planning](#)

This view is over Home Island and uses the planning data as the themes in the view. The themes used in the project show the marine environment and the current land use of Home Island.

- [West Island Land Use and Planning](#)

This view has much the same content as Home Island Land Use and Planning but is located over West Island.

- [Cocos Southern Islands Marine Plan](#)

This view is over the southern atoll and describes the current marine environment usage and plan. Vegetation is included and the roads theme has been added for orientation.

- [Cocos Southern Islands Land Use Plan](#)

This project is of the southern atoll and includes themes directly related to land use planning. They include: land zones, preferred land use, land use options, and current land use.

- [Cocos Southern Islands Plan](#)

This view is of the southern atoll and describes the planned environment of the southern islands.

- [West Island Planning](#)

This is a basic project that has been made over the West Island and includes the land use theme.

- [Land Tenure](#)

This is an early version of how tenure might look based on the Ground audit field "Mgr_name".

- [North Keeling Island Plan](#)

This view has been created for the North Keeling atoll. Satellite Images can be added to the view once saved on hard drive (North Keeling photos available on CD#1).

- [All Planning Themes](#)

This project is the master project for all the other projects that include planning. All themes are contained but are turned off to reduce ArcExplorer loading time.

- [All Themes](#)

This project has all the themes used in the above projects (except for the planning projects) and has been used as a master for them. All themes are turned off to decrease the time taken to load ArcExplorer.

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Metadata List

Important: In attempting to supply metadata according to the ANZLIC Core Metadata Elements, many elements are filled according to GA's understanding. Metadata was not available for a large number of datasets, or was informal and incomplete.

Imagery

- [Satellite Imagery](#)
- [Orthophotography](#)
- [Spot Imagery](#)

Vector Data

- [Utilities](#)
- [Cadaastre](#)
- [Topography/Culture](#)
- [Detailed Survey](#)
- [Planning](#)
- [Flight Lines and Photograph Centers](#)
- [Road Centerlines](#)
- [Vegetation](#)
- [GPS road and Track Data](#)
- [Sidescan Sonar Paths](#)
- [Sidescan Sonar Points](#)



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Documents

Note: The documents listed below are included on this CD-ROM and are intended to provide supplementary information regarding the Cocos (Keeling) Islands GIS. Included in the document list is a short description of the linked document. Some of the documents are in PDF format and require Adobe Acrobat Reader to view them (included on this CD-ROM, see Getting Started).

- [Satellite Image License](#)

The license agreement for usage of the Cocos (Keeling) Islands satellite images included on this CD. If you are unsure whether you are a registered user please consult here.

- [Registered Users](#)

The list of registered users for the Cocos (Keeling) Islands satellite images included on this CD.

- [Cocos Islands GIS 2009 System Documentation](#)

Report and product documentation for the Cocos (Keeling) Islands Geographic Information System (CocosGIS). This is a Portable Document Format (PDF) version, updated 2009. This was to include reprojections of satellite imagery and orthophotography, as well as to update the cadastre.

- [Interpretation Plan for the Shire of Cocos \(Keeling\) Islands](#)

A guide to telling the stories of the people and places of the Cocos Islands, for the benefit of visitors and for future generations of the community, using the Copra Industrial Precinct as the hub. The purpose of the Interpretation Plan is to identify the key Cocos stories and to recommend ways of weaving these together into a coherent whole, so that the stories are held for future generations of Cocos Malay people and made available to visitors.

- [1992 NCPA Planning Data Documentation](#)

This document was produced by the NCPA following the completion of a draft plan for the Cocos (Keeling) Islands concluding in 1992. The report describes the covers produced by the Arc/Info database that was created.

- [Water Resources Component, Cocos \(Keeling\) Islands GIS](#)

This document was produced by ECOWISE Environmental Ltd for Cocos Island Administration, Attorney-General's Department & the Australian Geological Survey Organisation. It includes metadata for the associated data.

- [Cocos \(Keeling\) Islands Lagoon Shipping Passage Realignment](#)

This document was produced by GHD Pty Ltd. and outlines the process to realign the shipping passage through the lagoon focusing on environmental impact issues.

- [Seawall Upgrade Design Concept](#)

This report is provided by GHD Pty Ltd. identifying the limitations of the current seawall on the western shoreline, including investigations into and upgrade of the seawall and design concept for this work.

- [Cocos \(Keeling\) Islands Storm Surge Study](#)

This report was produced by GHD Pty Ltd. to investigate storm surge levels and describes a technical study to update existing probabilistic estimates of extreme water levels.

- [Utilities Data Cocos \(Keeling\) Islands](#)

This document was produced by GHD Pty Ltd. and includes metadata for the utilities data.

- [DigitalGlobe Satellite Imagery Documentation](#)

This document was produced by DigitalGlobe and contains information about the pan-sharpened satellite imagery obtained from the QuickBird satellite.

- [Environmental reports supplied by Parks Australia North CKI](#)

- AQIS Survey June 2000
- Buff-Banded Rail Report
- Crazy Ant Report 2002
- Exotic Plants on Cocos 2002
- RFBB SURVEY
- Strategy
- Turtle Database 2003
- Turtle Survey Report 2000
- Turtle Survey Report 2002
- Turtle Survey Report 2003

- [Side Scan Sonar Paths & Interesting Features](#)

The purpose of this survey was to confirm the revised shipping channel prior to opening in 2003 – i.e. no obstructions and markers placed appropriately. GA built shape files to show the paths taken by the sidescan sonar vessel and GA recorded a number of features that may not be natural that were subsequently inspected by Parks – however no new wreckage was located through this process.

- [Cocos GPS Station](#)

This document shows the Cocos GPS station identification, co-ordinates, equipment and information.

- [West Island, Cocos \(Keeling\) Islands School visit 15th April 2003](#)

- [Home Island, Cocos \(Keeling\) Islands School visit 16th April 2003](#)

Click on each green bar above to see photos of Cocos GIS presentations at both Cocos (Keeling) Islands schools - West Island on 15th April and Home Island on 16th April 2003.

- [Cocos \(Keeling\) Islands GIS - Stage 1 Report](#)

This report was produced by AGSO summarising the progress of the Cocos (Keeling) Islands GIS (Cocos GIS) on completion of Stage 1.

- [ANZLIC Metadata Guidelines \(Version 1\)](#)

This is the metadata standard used in construction of the Cocos GIS metadata sheets. Metadata created after the release of ANZLIC Metadata Guidelines: Core metadata elements for geographic data in Australia Version 2, February 2001 (ANZLIC web pages - [link to offline \(PDF\) copy here](#)) will comply with the newer standard. Older metadata will be gradually updated.

- [Register of the National Estate](#)

Online, searchable register of more than 12,000 places of natural, historic or indigeneous significance. Use the search to find details and photographs of sites in the national estate dataset.

- [GA Cocos \(Keeling\) Islands page](#)

Geoscience Australia Cocos (Keeling) Islands web page

- [The Attorney-General's Department Cocos \(Keeling\) Islands Photo Collection](#)

This is a link to the The Attorney-General's Department Cocos photo library page ([Link to an offline copy here](#)).

- [The Cocos Island Tourism Commission](#)

This Cocos Island Tourism Commission page contains tourist information for the islands. [Link to an offline copy here](#).

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[::Cocos GIS Online](#)

Copyright

© Commonwealth of Australia 1987-2009.

This work is copyright. Data displayed in this system are copyright of the Commonwealth of Australia. The cadastral boundaries displayed in the ground audit layer are maintained by the Western Australian Department of Lands Administration (DOLA) under a 'Service Delivery Arrangement' to the Commonwealth.

The collection of other data displayed in this Cocos CD-ROM was contracted out by Territories Office to various Commonwealth and State government agencies at various times during the last ten years via several independent consultancy agreements.

The Cocos manuals and CD ROMs should remain with your employer if you leave your present position to work for another organisation.

Apart from any fair dealings for the purposes of study, research, criticism or review, as permitted under the Copyright Act, no part may be reproduced by any process without written permission other than the following exception.

The Attorney-General's Department grant you permission to use and transmit maps, metadata sheets and data query results from the CD-ROM as unaltered and complete bitmap images and text in both hardcopy or electronic form for the purposes of dissemination of information about Cocos Island. Such information dissemination does not require the above mentioned written permission but is required to include identification of source. Accordingly The Attorney-General's Department or GA logos are not to be removed from captured pages or maps.

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**Attorney-General's Department
Level 15, 37 St Georges Terrace
Perth
WA 6000 AUSTRALIA**

Postal Address:

**Attorney-General's Department
PO Box Z5048
Perth
WA 6831 AUSTRALIA**

**Ph: 08 9225 1400
Fax: 08 9225 1429**

The GIS datasets were recast and assembled by the [Mineral Resources and Advice Group](#) of Geoscience Australia as part of a project assessing opportunities for further mining of the phosphate resources on Cocos Island in balance with nature conservation and related land use

management and planning issues.

For further information, contact [Keith Porritt](#) (Anti-spam method - remove the two 'zzz' to use this email) regarding the data integration.

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Licenses

Commonwealth Cocos GIS data licence

The copyright for all the data in the Cocos GIS resides with the Commonwealth. Legal advice to Geoscience Australia and Territories Office recommends the protection of the Commonwealths interests in any distribution of the Cocos Islands GIS by way of a licence agreement. Here is a [one page licence agreement](#) and an associated [covering letter](#).

Satellite Image Licence

If you are unsure whether you are a registered Satellite Image user please check the following list of registered users.

Registered Organisations

1. Department of Transport and Regional Services
2. Cocos (Keeling) Islands Shire
3. Geoscience Australia
4. WA Department of Industry and Resources
5. WA Department of Land Administration
6. WA Department for Planning and Infrastructure
7. Cocos Island Co-operative Society Ltd
8. Cocos Dive
9. WA Department of Education and Training
10. Cocos (Keeling) Islands Tourism Association

For a more comprehensive list of registered organisations, including contact details, click [here](#) to open the pdf document.

Please read the license agreement by clicking [here](#) for the use and distribution of the current Cocos (Keeling) Islands satellite images.



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[::CAD plans](#)

[\[Power](#)

[\[Waste Water](#)

[\[Water](#)

[\[Underground Services](#)

[::Contacts](#)

[::Cocos GIS Online](#)

Utility CAD PDFs / DWGs

Note: The original plans for services in place on Cocos Island can be viewed using the links below. These are stored both as CAD files and as a PDF conversion of each individual file. The PDF's cannot be guaranteed to be accurate so please use the CAD files as an absolute reference. Use the links on the left hand side navigation bar to goto the section you are interested in. If you do not have a CAD viewer, a freeware one can be installed by clicking [here](#).

Power

Home Island existing underground services and survey data.

Filename: HomeIsl_CKIG92.dwg

- [PDF](#)
- [DWG](#)

Home Island existing underground services and survey data (with power meters).

Filename: HomeIsl_powermeter_CKIG92.dwg

- [PDF](#)
- [DWG](#)

West Island general overview (in CKIG92 projection).

Filename: rwest_1_CKIG92.dwg

- [PDF](#)
- [DWG](#)

West Island general overview (only partial, in CKIG92 projection).

Filename: rwest_2_CKIG92.dwg

- [PDF](#)
- [DWG](#)

Home Island master plan for underground services (in CKIG92 projection).

Filename: underground_services_home_island_CKIG92.dwg

- [PDF](#)
- [DWG](#)

West Island master plan for underground services (in CKIG92 projection).

Filename: underground_services_west_island_1_CKIG92.dwg

- [PDF](#)
- [DWG](#)

West Island master plan for underground services (only partial, in CKIG92 projection).

Filename: underground_services_west_island_2_CKIG92.dwg

- [PDF](#)
- [DWG](#)

West Island overview (in CKIG92 projection).

Filename: WORKS_westis_CKIG92.dwg

- [PDF](#)
- [DWG](#)

Cocos HV Reticulation upgrade stage 1

Cocos Islands Power Reticulation.

Filenames: 54e01.dwg, 54e02.dwg, 54e03.dwg

PDF:

- [Single Line diagram - Part 1 - Existing and New](#)
- [Single Line diagram - Part 2 - Existing and New](#)
- [Single Line diagram - Part 3 - Existing and New](#)

DWG:

- [Single Line diagram - Part 1 - Existing and New](#)
- [Single Line diagram - Part 2 - Existing and New](#)
- [Single Line diagram - Part 3 - Existing and New](#)

Cocos Islands Power Reticulation.

Filenames: 6915-54-e01.tif, 6915-54-e02.tif, 6915-54-e03.tif, 6915-54-e04.tif, 6915-54-e05.tif, 6915-54-e06.tif, 6915-54-e07.tif, 6915-54-e08.tif, 6915-54-e09.tif, 6915-54-e10.tif, 6915-54-e11.tif, 6915-54-e12.tif, 6915-54-e13.tif, 6915-54-e14.tif, 6915-54-e15.tif

- [PDF](#)

TIF:

- [Single line diagram - Part 1 - Existing and New](#)
- [Single line diagram - Part 2 - Existing and New](#)
- [Single line diagram - Part 3 - Existing and New](#)
- [Jetty area - Substation 8](#)
- [Transmitters area - Substation 8](#)
- [Cocos Farm / Clam Farm - Substation 6](#)
- ["Q" Station Bore Field area - Substation 5](#)
- ["Q" Station North area](#)
- ["Q" Station area - Substation 3](#)
- [Receivers Site area - Substation 2](#)
- [Beacon Heights area - Substation 20](#)
- [Commercial area - Power Substation 1A & 1B](#)
- [Commercial / Residential area - Substation 11](#)
- [Residential area - Substation 12](#)
- [Residential area South](#)

Cocos HV Reticulation upgrade stage 2

Cocos Islands Power Reticulation.

Filenames: 54E16.dwg, 54E17.dwg, 54E18.dwg, 54E19.dwg, 54E20.dwg

PDF:

- [54e16 - 54e20](#)

DWG:

- [Beacon Heights area - Substation 6 West](#)
- [Commercial area - Power Station Substation 1A & 1B](#)
- [Commercial / Residential area - Substation 7 South](#)
- [Residential area - Substation 8 South](#)
- [Residential area South](#)

West Island Overview.

Filename: rwest.dwg

- [PDF](#)
- [DWG](#)

West Island Overview (Scaled).

Filename: rwest_scaled.dwg

- [PDF](#)
- [DWG](#)

Cocos HV Reticulation upgrade stage 3

Cocos Islands Vacuum Sewerage.

Filenames: C01.dwg, C02.dwg, C03.dwg, C04.dwg, C05.dwg, C06.dwg, C07.dwg, C08.dwg

PDF:

- [C01 - C08](#)

DWG:

- [West Island - Pressure Main plan - sheet 1 of 3](#)
- [West Island - Pressure Main plan - sheet 2 of 3](#)
- [West Island - Pressure Main plan - sheet 3 of 3](#)
- [West Island - Pressure Main Longitudinal Section - sheet 1 of 2](#)
- [West Island - Pressure Main Longitudinal Section - sheet 2 of 2](#)
- [West Island - Pressure Main Miscellaneous details](#)
- [West Island - Ocean Outfall plan](#)
- [West Island - Ocean Outfall Longitudinal Section](#)

Civil pipeline?

Filename: civil.dwg

- [PDF](#)
- [DWG](#)

Cocos West Island Overview.

Filename: cocos_west.dwg

- [PDF](#)

- [DWG](#)

Cocos Islands Power Reticulation.

Filenames: E01.dwg, E02.dwg, E03.dwg, E04.dwg, E05.dwg, E06.dwg, E07.dwg, E08.dwg, E09.dwg, E10.dwg, E11.dwg, E12.dwg, E13.dwg, E14.dwg, E15.dwg, E16.dwg

PDF:

- [E01 - E16](#)

DWG:

- [Power Station and Local area](#)
- [Northern Feeder](#)
- [Southern Feeder](#)
- [Western Feeder](#)
- [Jetty area - Substation 8](#)
- [Transmitters area - Substation 7](#)
- [Rumah Baru area - Substations 5 & 6](#)
- [Commercial area & Beacon Heights](#)
- [Commercial / Residential area - Substations 11 & 12](#)
- [Residential area South](#)
- [Southern area - Substation 13](#)
- [Miscellaneous Details](#)
- [Transformer Vector diagrams](#)

Cocos West Island main electrical line?.

Filename: elect2.dwg

- [PDF](#)
- [DWG](#)

Cocos West Island new electrical line?

Filename: newline.dwg

- [PDF](#)
- [DWG](#)

Cocos West Island Overview (Civil buildings).

Filename: west_civil.dwg

- [PDF](#)
- [DWG](#)

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Home Island Distribution Pillars

Installation of new LV pillars Home Island.

Filename: 24E01.dwg, 24E02.dwg, 24E03.dwg, 24E04.dwg

PDF:

- [24E01 - 24E04](#)

DWG:

- [North Community area](#)
- [Central Community area](#)
- [Miscellaneous Details](#)
- [Overall Single Line Schematic](#)

Home Island Overview.

Filename: HomeIsl.dwg

- [PDF](#)
- [DWG](#)

Home Island Overview (power meters).

Filename: HomeIsl_powermeter.dwg

- [PDF](#)
- [DWG](#)

Waste Water

Sewer System

Home Island Water mains (in CKIG92 projection).

Filename: home_watermain_CKIG92.dwg

- [PDF](#)
- [DWG](#)

Home Island Overview (in CKIG92 projection).

Filename: HOMEBASE_CKIG92.dwg

- [PDF](#)
- [DWG](#)

Home Island Sewer lines (in CKIG92 projection).

Filename: HOMESEWER_CKIG92.dwg

- [PDF](#)
- [DWG](#)

Home Island Topographic Survey (in CKIG92 projection).

Filename: HOMESURVEY_CKIG92.dwg

- [PDF](#)
- [DWG](#)

West Island Overview (in CKIG92 projection).

Filename: WESTBASE_CKIG92.dwg

- [PDF](#)
- [DWG](#)

West Island Sewer lines (in CKIG92 projection).

Filename: WESTSEWER_CKIG92.dwg

- [PDF](#)
- [DWG](#)

West Island Topographic Survey (in CKIG92 projection).

Filename: WESTSURVEY_CKIG92.dwg

- [PDF](#)
- [DWG](#)

Vacuum Sewerage System

Home Island Vacuum Pumping Station site plan.

Filename: 48C60 as cons.dwg

- [PDF](#)
- [DWG](#)

West Island Vacuum Pumping Station site plan.

Filename: 48C61 as cons.dwg

- [PDF](#)
- [DWG](#)

Home & West Island Pumping Station general arrangement plan.

Filename: 48C62as cons2.dwg

- [PDF](#)
- [DWG](#)

Home & West Island Pumping Station general arrangement sections.

Filename: 48C63airvac as cons.dwg

- [PDF](#)
- [DWG](#)

Home & West Island Pumping Station elevations.

Filename: 48C64airvac as cons.dwg

- [PDF](#)
- [DWG](#)

Home & West Island Pumping Station Reinforced Concrete details.

Filename: 48C65as cons.dwg

- [PDF](#)
- [DWG](#)

Home & West Island Structural details.

Filename: 48C66as cons.dwg

- [PDF](#)
- [DWG](#)

Home & West Island Pumping Station Odour control pit.

Filename: 48C68 as cons.pdf

- [PDF](#)
- [DWG](#)

Home & West Island Ocean outfall details.

Filename: 48C84as cons2.dwg

- [PDF](#)
- [DWG](#)

Home Island Pumping Station Electrical building layout.

Filename: 48E01REV0as cons.dwg

- [PDF](#)
- [DWG](#)

West Island Pumping Station Electrical building layout.

Filename: 48E01REV0as cons.dwg

- [PDF](#)
- [DWG](#)

Home Island Telstra Electrical cables (in CKIG92 projection).

Filename: homebase_telstra_cables_CKIG94.dxf

- [PDF](#)
- [DWG](#)

West Island Telstra Electrical cables (in CKIG92 projection).

Filename: WESTBASE_elec_CKIG94.dxf

- [PDF](#)
- [DWG](#)

West Island Sewer lines.

Filename: WESTSEWER.dwg

- [PDF](#)
- [DWG](#)

West Island Sewer main (in CKIG92 projection).

Filename: westsewer_sewer_CKIG94.dxf

- [PDF](#)
- [DWG](#)

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Water (supply/meters)

Water Meters Installation

Water Meters (as constructed).

Filenames: H001.tif, H002.tif, H003.tif, H004.tif, H005.tif, H006.tif, H007.tif, H008.tif, H009.tif, H010.tif, H011-1.tif, H012-1.tif, H013-1.tif, H014-1.tif, H015-1.tif

PDF:

- [H001 - H015-1](#)

TIF:

- [Home Island site plan \(1 of 15\)](#)
- [Home Island site plan \(2 of 15\)](#)
- [Home Island site plan \(3 of 15\)](#)
- [Home Island site plan \(4 of 15\)](#)
- [Home Island site plan \(5 of 15\)](#)
- [Home Island site plan \(6 of 15\)](#)
- [Home Island site plan \(7 of 15\)](#)
- [West Island site plan \(8 of 15\)](#)
- [West Island site plan \(9 of 15\)](#)
- [West Island site plan \(10 of 15\)](#)
- [West Island site plan \(11 of 15\)](#)
- [West Island site plan \(12 of 15\)](#)
- [West Island site plan \(13 of 15\)](#)
- [West Island site plan \(14 of 15\)](#)
- [Typical Details \(15 of 15\)](#)

Water Supply Upgrade

Water Supply upgrade (as constructed).

Home Island Schematic diagram

Filename: HIH01.dwg

- [PDF](#)
- [DWG](#)

Home Island sections & details - Electric & Diesel pumps.

Filename: HIS01.dwg

- [PDF](#)
- [DWG](#)

West Island Office modifications & Electrical services.

Filename: WIE01.dwg

- [PDF](#)
- [DWG](#)

West Island Part site plan.

Filename: WIH01.dwg

- [PDF](#)
- [DWG](#)

West Island Water Tank details.

Filename: WIH02.dwg

- [PDF](#)
- [DWG](#)

West Island Dimensioned set out drawings & schematic.

Filename: WIH03.dwg

- [PDF](#)
- [DWG](#)

West Island sections & details - Electric & Diesel pumps.

Filename: WIS01.dwg

- [PDF](#)
- [DWG](#)

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Underground Services

Underground Services (as constructed 1994)

Home Island Existing Underground services & Survey data

Filename: underground_services_home_island_CKIG92.dwg

- [PDF](#)
- [DWG](#)

West Island Existing Underground services & Survey data (1 of 2)

Filename: underground_services_west_island_1_CKIG92.dwg

- [PDF](#)
- [DWG](#)

West Island Existing Underground services & Survey data (2 of 2)

Filename: underground_services_west_island_2_CKIG92.dwg

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Cocos Keeling Islands GIS

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Contacts

Shane Warnock

Ph: +61 8 9225 1427

Fax: +61 8 9225 1417

Shane.Warnockzzz@zzzag.gov.au

(Anti-spam method - remove the two 'zzz' to use this email)

Keith Porritt

Senior Geologist

Ph: +61 2 6249 9479

Keith.Porrittzzz@zzzga.gov.au

(Anti-spam method - remove the two 'zzz' to use this email)

Postal Address

Attorney-General's Department

PO Box Z5048

Perth

WA 6831 AUSTRALIA

Home Page

<http://www.ag.gov.au>

Telephone

Domestic: 08 9225 1400

International: +61 8 9225 1400

Facsimile

Domestic: 08 9225 1429

International: +61 8 9225 1429

Physical Location

Level 15, 37 St Georges Terrace

Perth

WA 6000 AUSTRALIA

Chapter 6

Appendix 3: Ground Audit and Cadastre Tables

Table 2: Full listing of cadastre.shp and lodged.shp

Table 3: The following two spreadsheets list 66 fields of data from 'cocos_cadastre.xls' and 28 fields of data from 'cocos_lodged.xls' that are displayed in the attribute table. Records are sorted by the 'PIN' field. The page order for columns is 'Down, then over'. The excel spreadsheet files can be found on CD-1.

Cadastre Fields: First Section		Lodged Fields: Second Section	
Locno_str	Date_creat	Lotno_str	Tenure
Pin	Date_modif	Pin	Zoning
LotNumber	Legal_deriv	LotNumber	Reserve1
Houseno	Area_indic	Plan	Sstname
Address	Centroid_c	Purpose	Sstnamefx
Diagram	Date_retir	Diagram	
Description	Date_bound	Survey	
Improvment	Pityp	Centlat	
Purpose	Lot_type	Centlong	
Housesuffi	Rsv_vestin	Calc_area	
Addresstyp	Reserve_us	Legal_area	
Tenure	Lga	Date_create	
Survey	Owner	Date_modif	
Docno	Management	Lega_deriv	
Ct	Mgr_name	Area_indic	
Piparcel	Saledate	Centroid_c	
Zoning	Saledateno	Usage_code	
Plan	Purchasepr	Date_retir	
Calc_area	Location	Date_bound	
Legal_area	Gprpfx	Pityp	
Usage_code	Gprsfx	Piparcel	
Centlat	Region	Lot_type	
Centlong	Postcode	Mgr_name	

LOCNO	PIN	LOT_NUM	HOUSENO	ADDRESS	DIAGRAM	DESSCRIPTIO	IMPROVMENT
0001	1115125	1	123	NELSON MANDELA WK		0000134267 124 AIR FORCE ROAD COCOS (KEELING) 000001 23 AIR FORCE ROAD 36082 00050 000089 G	
0001	1115125	1	123	NELSON MANDELA WK		0000134267 124 AIR FORCE ROAD COCOS (KEELING) 000001 23 AIR FORCE ROAD 36082 00050 000089 G	
0001	11444270	1	5	BUFFETT CL			
0002	11444271	2	9	BUFFETT CL			
0003	11444272	3	11	BUFFETT CL			
0004	11444273	4	13	BUFFETT CL			
0005	11444274	5	15	BUFFETT CL			
0006	11444275	6	17	BUFFETT CL			
0007	11444276	7	19	BUFFETT CL			
0008	11444277	8	21	BUFFETT CL			
0009	11444278	9	23	BUFFETT CL			
0010	11444280	10	25	BUFFETT CL			
0011	11444281	11	27	BUFFETT CL			
0012	11444282	12	29	BUFFETT CL			
0013	11444283	13	31	BUFFETT CL			
0014	11444284	14	33	BUFFETT CL			
0015	11444285	15	35	BUFFETT CL			
0016	11444286	16	37	BUFFETT CL			
0017	11444287	17	39	BUFFETT CL			
0018	11444288	18	41	BUFFETT CL			
0100	1115206	100					
0100	1115209	100					
0100	1115215	100					
0100	1115219	100					
0100	1115220	100					
0100	1115224	100					
0100	1115225	100					
0100	1115226	100					
0100	1115207	100					
0100	1115208	100					
0100	1115211	100					
0100	1115214	100					
0100	1115216	100					
0100	1115217	100					
0100	1115221	100					
0100	1115227	100					
0100	1115228	100					
0100	1115229	100					
0100	1115230	100					
0100	1115231	100					
0100	1115232	100					
0100	1115233	100					
0100	11496255	100					
0100	1115207	100					
0100	1115208	100					
0100	1115214	100					
0100	1115216	100					
0100	1115217	100					
0100	1115221	100					
0100	1115227	100					
0100	1115228	100					
0100	1115229	100					
0100	1115230	100					
0100	1115231	100					
0100	1115232	100					
0100	1115233	100					
0101	1115591	101					
0101	1115180	101		William Keeling Crescent	House 1	House 1, William Keeling Street.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0101	1115180	101		William Keeling Crescent	House 1	House 1, William Keeling Street.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0102	1115590	102					
0102	1115592	102					
0102	1115181	102		Qantas Close	House 2	House 2, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0102	1115181	102		Qantas Close	House 2	House 2, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0103	1115182	103		Qantas Close	House 3	House 3, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0103	1115182	103		Qantas Close	House 3	House 3, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
0104	1113733	104					
0104	1113734	104					
0104	1113735	104					
0104	1113736	104					
0104	1113737	104					
0104	1115203	104					
0104	1115204	104					
0104	1115205	104					
0104	1115593	104					
0104	1115594	104					
0104	1115595	104					
0104	1115596	104					
0104	1115597	104					
0104	1115598	104					
0104	1115599	104					
0104	1115600	104					
0104	1115601	104					

LOCNO	PIN	LOT_NUM	HOUSENO	ADDRESS	DIAGRAM	DESCRIPTIO	IMPROVMENT
0104	1115602	104					
0104	1115603	104					
0104	1115604	104					
0104	1115605	104					
0104	1115606	104					
0104	1115607	104					
0104	1115608	104					
0104	1115609	104					
0104	1115610	104					
0104	1115611	104					
0104	1115612	104					
0104	1115613	104					
0104	1115614	104					
0104	1115615	104					
0104	1115616	104					
0104	1115617	104					
0104	1115618	104					
0104	1115619	104					
0104	1115620	104					
0104	1115621	104					
0104	1115622	104					
0104	1115623	104					
0104	1115624	104					
0104	1115625	104					
0104	1115626	104					
0104	1115627	104					
0104	1115628	104					
0104	1115629	104					
0104	1115630	104					
0104	1115631	104					
0104	1115632	104					
0104	1115633	104					
0104	1115634	104					
0104	1115635	104					
0104	1115636	104					
0104	1115637	104					
0104	1115638	104					
0104	1115639	104					
0104	1115640	104					
0104	1115641	104					
0104	1115642	104					
0104	1115643	104					
0104	1115644	104					
0104	1115645	104					
0104	1115646	104					
0104	1115647	104					
0104	1115648	104					
0104	1115649	104					
0104	1115650	104					
0104	1115651	104					
0104	1115652	104					
0104	1115653	104					
0104	1115654	104					
0104	1115655	104					
0104	1115656	104					
0104	1115657	104					
0104	1115658	104					
0104	1115659	104					
0104	1115660	104					
0104	1115661	104					
0104	1115662	104					
0104	1115663	104					
0104	1115664	104					
0104	1115665	104					
0104	1115666	104					
0104	1115667	104					
0104	1115668	104					
0104	1115669	104					
0104	1115670	104					
0104	1115671	104					
0104	1115672	104					
0104	1115673	104					
0104	1115674	104					
0104	1115675	104					
0104	1115676	104					
0104	1115677	104					
0104	1115678	104					
0104	1115679	104					
0104	1115680	104					
0104	1115681	104					
0104	1115682	104					
0104	1115683	104					

21/07/2009

21/07/2009

LOCNO	PIN	LOT_NUM	HOUSENO	ADDRESS	DIAGRAM	DESCTIO	IMPROVMENT
0173	1115103	173		Clunies Ross Avenue		VACANT LAND, Clunies-Ross Ave	Vacant commercial lot.
0173	1115103	173		Clunies Ross Avenue		VACANT LAND, Clunies-Ross Ave	Vacant commercial lot.
0174	1115102	174		Clunies Ross Avenue	0	Supermarket, Clunies-Ross Ave	Supermarket premises, of steel frame, metal deck clad walls and roof over concrete floor, approximately 10
0174	1115102	174		Clunies Ross Avenue	0	Supermarket, Clunies-Ross Ave	Supermarket premises, of steel frame, metal deck clad walls and roof over concrete floor, approximately 10
0175	1115100	175	175	Nelson Mandela Walk		Golf Club, Airforce Road.	Club rooms. A timber framed/asbestos clad and corrugated asbestos roof building approximately 30 years old
0175	1115100	175	175	Nelson Mandela Walk		Golf Club, Airforce Road.	Club rooms. A timber framed/asbestos clad and corrugated asbestos roof building approximately 30 years old
0176	1115101	176	176	Nelson Mandela Walk		Transformer Site LOC 176	
0176	1115101	176	176	Nelson Mandela Walk		Transformer Site LOC 176	
0176	1115101	176	176	Nelson Mandela Walk		Transformer Site LOC 176	
0178	1115095	178		Sydney Highway	Sydney Highway.	Cocus Club/Cyclone Shelter, Sydney Highway.	Club/Cyclone shelter aprox 15 yrs old. Brick walls and asbestos roof, plus heavy duty storm shutters
0178	1115095	178		Sydney Highway	Sydney Highway.	Cocus Club/Cyclone Shelter, Sydney Highway.	Club/Cyclone shelter aprox 15 yrs old. Brick walls and asbestos roof, plus heavy duty storm shutters
0178	1115095	178		Sydney Highway	Sydney Highway.	Cocus Club/Cyclone Shelter, Sydney Highway.	Club/Cyclone shelter aprox 15 yrs old. Brick walls and asbestos roof, plus heavy duty storm shutters
0179	1115089	179		Sydney Highway			
0179	1115089	179		Sydney Highway			
0180	1115090	180		Sydney Highway	Sydney Highway.	The Lodge, Sydney Highway.	Asbestos/asbestos tourist amenities complex comprising 8 buildings, in fair condition aprox 20 years old
0180	1115090	180		Sydney Highway	Sydney Highway.	The Lodge, Sydney Highway.	Asbestos/asbestos tourist amenities complex comprising 8 buildings, in fair condition aprox 20 years old
0181	1115094	181		Sydney Highway	Qantas building A	Qantas building A, Sydney Highway.	Office building comprising 6 suites. Concrete stumps, timber framed/asbestos clad walls and roof, 30 years old
0181	1115094	181		Sydney Highway	Qantas building A	Qantas building A, Sydney Highway.	Office building comprising 6 suites. Concrete stumps, timber framed/asbestos clad walls and roof, 30 years old
0182	1115098	182		William Keeling Crescent	William Keeling Cres.	Hospital and Nurses' Quaters, William Keeling Cres.	Hospital and Nurses Quaters, both approx. 20 yrs old of timber frame with asbestos clad walls and metal de
0182	1115098	182		William Keeling Crescent	William Keeling Cres.	Hospital and Nurses' Quaters, William Keeling Cres.	Hospital and Nurses Quaters, both approx. 20 yrs old of timber frame with asbestos clad walls and metal de
0184	1115082	184		Sydney Highway	Asset Services Complex	Asset Services Complex, Sydney Highway.	Offices/Workshops/Storage, generally of steel frame with aluminium sheeting to walls and roof, ranging be
0184	1115082	184		Sydney Highway	Asset Services Complex	Asset Services Complex, Sydney Highway.	Offices/Workshops/Storage, generally of steel frame with aluminium sheeting to walls and roof, ranging be
0184	1115082	184		Sydney Highway	Asset Services Complex	Asset Services Complex, Sydney Highway.	Offices/Workshops/Storage, generally of steel frame with aluminium sheeting to walls and roof, ranging be
0187	1115088	187		Emden Walk & Alexander St	Cnr Emden Walk and Alexander Street	Mosque, Cnr Emden Walk and Alexander Street	Former residence with weather-board and asbestos walls and asbestos roof, approximately 50 years old.
0187	1115088	187		Emden Walk & Alexander St	Cnr Emden Walk and Alexander Street	Mosque, Cnr Emden Walk and Alexander Street	Former residence with weather-board and asbestos walls and asbestos roof, approximately 50 years old.
0187	1115088	187		Emden Walk & Alexander St	Cnr Emden Walk and Alexander Street	Mosque, Cnr Emden Walk and Alexander Street	Former residence with weather-board and asbestos walls and asbestos roof, approximately 50 years old.
0188	1115087	188		Emden Walk	Shell Workshop	Shell Workshop, Emden Walk	Workshop of steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old.
0188	1115087	188		Emden Walk	Shell Workshop	Shell Workshop, Emden Walk	Workshop of steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old.
0189	1115086	189		Emden Walk	0	Shell Office and Workshop, Emden Walk.	Office/Workshop, steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old
0189	1115086	189		Emden Walk	0	Shell Office and Workshop, Emden Walk.	Office/Workshop, steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old
0189	1115086	189		Emden Walk	0	Shell Office and Workshop, Emden Walk.	Office/Workshop, steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old
0190	1115085	190		Cnr of Emden Walk and Sydney Highway		Sydney Highway & Emden Walk.	Vacant industrial lot.
0190	1115085	190		Cnr of Emden Walk and Sydney Highway		Sydney Highway & Emden Walk.	Vacant industrial lot.
0191	1115118	191	191	Nelson Mandela Walk	0	House 91, Airforce Road.	A 25 year old, single level, 3 bedroom, fibre cement clad and corrugated asbestos roof dwelling in fair cond
0191	1115118	191	191	Nelson Mandela Walk	0	House 91, Airforce Road.	A 25 year old, single level, 3 bedroom, fibre cement clad and corrugated asbestos roof dwelling in fair cond
0192	1115179	192	192	Nelson Mandela Walk	0	House 92, Airforce Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0192	1115179	192	192	Nelson Mandela Walk	0	House 92, Airforce Road.	A 10 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
0197	1115160	197		Beacon Heights Road			
0197	1115160	197		Beacon Heights Road			
0197	1115160	197		Beacon Heights Road			
0198	1115167	198		Beacon Heights Road			
0198	1115167	198		Beacon Heights Road			
0199	1115091	199					
0199	1115091	199					
0199	1115091	199					
0202	1115062	202			Civil Aviation Authority (CAA)	TRANSMITTER SITE, Civil Aviation Authority (CAA)	Transmitter building, power house and emergency power house.
0202	1115062	202			Civil Aviation Authority (CAA)	TRANSMITTER SITE, Civil Aviation Authority (CAA)	Transmitter building, power house and emergency power house.
0206	1115063	206				Transmitter Site	
0206	1115063	206				Transmitter Site	
0207	1115061	207				Transmitter Site	
0207	1115061	207				Transmitter Site	
0209	1115059	209		Alexander Street	Airport	Bureau of Meteorology Weather Station, Airport, Alexander Street	A fibre cement clad and iron roofed office approx 20 years old. with detached store/balloon filling shed.
0209	1115059	209		Alexander Street	Airport	Bureau of Meteorology Weather Station, Airport, Alexander Street	A fibre cement clad and iron roofed office approx 20 years old. with detached store/balloon filling shed.
0221	1115099	221		William Keeling Crescent			
0221	1115099	221		William Keeling Crescent			
0222	1115197	222					
0222	1115197	222					
0222	1115197	222					
0313	1115148	313		Buffett Close		Transformer	
0313	1115148	313		Buffett Close		Transformer	
0313	1115148	313		Buffett Close		Transformer	
0315	1115149	315		Buffett Close		Vacant Land, Buffett Close.	Vacant residential lot.
0315	1115149	315		Buffett Close		Vacant Land, Buffett Close.	Vacant residential lot.
0316	1115155	316					
0316	1115155	316					
0316	1115155	316					
0317	1115157	317		Beacon Heights Road			
0317	1115157	317		Beacon Heights Road			
0319	1189457	319		Sydney Highway			
0319	1189457	319		Sydney Highway			
0323	1194332	323		Sydney Highway			
0323	1194332	323		Sydney Highway			
0326	1215186	326		Sydney Highway			
0326	1215186	326		Sydney Highway			
0327	1215187	327					
0327	1215187	327					
0327	1215187	327					
0328	1215182	328		Sydney Highway			
0328	1215182	328		Sydney Highway			
0328	1215182	328		Sydney Highway			
0329	1290328	329					
0329	1290328	329					

LOCNO	PIN	LOT_NUM	HOUSENO	ADDRESS	DIAGRAM	DESSCRIPTIO	IMPROVMENT
0331	1303141	331		Indian Ocean			
0331	1303141	331		Indian Ocean			
0331	1303141	331		Indian Ocean			
0332	1303140	332		Indian Ocean			
0332	1303140	332		Indian Ocean			
0332	1303140	332		Indian Ocean			
0333	11256183	333					Bus and passenger shelter steel frame, hardiplank and fibre cement walls, metal deck roof and concrete flo
0333	11256183	333					Bus and passenger shelter steel frame, hardiplank and fibre cement walls, metal deck roof and concrete flo
0333	11256183	333					Bus and passenger shelter steel frame, hardiplank and fibre cement walls, metal deck roof and concrete flo
0334	11256184	334					
0334	11256184	334					
0334	11256184	334					
0335	11299225	335					Bus and passenger shelter steel frame, hardiplank and fibre cement walls, metal deck roof and concrete flo
0335	11299225	335					Bus and passenger shelter steel frame, hardiplank and fibre cement walls, metal deck roof and concrete flo
0336	11218848	336			SCOUT HALL		Hall with concrete floor, timber framed asbestos clad walls and roof, approximately 40 years old and in poor
0336	11218848	336			SCOUT HALL		Hall with concrete floor, timber framed asbestos clad walls and roof, approximately 40 years old and in poor
0337	11218847	337		William Keeling Crescent	William Keeling Cres		Day/Child Care Centre approximately 30 years old comprising concrete floor, asbestos clad walls and metal
0337	11218847	337		William Keeling Crescent	William Keeling Cres		Day/Child Care Centre approximately 30 years old comprising concrete floor, asbestos clad walls and metal
0337	11218847	337		William Keeling Crescent	William Keeling Cres		Day/Child Care Centre approximately 30 years old comprising concrete floor, asbestos clad walls and metal
0338	1365196	338		Jalan Pantai			
0338	1365196	338		Jalan Pantai			
0338	1365196	338		Jalan Pantai			
0339	1365195	339					
0339	1365195	339					
0339	1365195	339					
0340	11299184	340		Beacon Heights Road			
0341	11299159	341					
0341	11299159	341					
0342	11299160	342					
0343	11299155	343					
0344	11299154	344					
0345	11299151	345					
0346	11299152	346					
0346	11299152	346					
0347	11299153	347					
0347	11299153	347					
0348	11299157	348					Single level commercial/office building approx 20 yrs old, fibre cement panel walls and corrugated asbestos
0349	11299158	349					Single level commercial/office building approx 20 yrs old, fibre cement panel walls and corrugated asbestos
0349	11299158	349					Single level commercial/office building approx 20 yrs old, fibre cement panel walls and corrugated asbestos
0350	11299156	350					
0350	11299156	350					
0351	11299224	351					STORAGE/WORKSHOP, FUEL TANKS AND PUMPING FACILITIES
0600	11607568	600					
1000	1365197	1000 39		Jalan Pantai			
1001	1365194	1001 31		Jalan Pantai			
1106	1113721	1106					
1106	1113721	1106					
1107	11016564	1107					
1108	1113731	1108					
1108	1113731	1108					
1109	1113730	1109					
1109	1113730	1109					
3003	11444290	3003					
3004	11444293	3004 14		BUFFETT CL			
3005	11444289	3005 18		BUFFETT CL			
3006	11444279	3006					
	11203780						
	11203781	0					
	1115059	0		Alexander Street	Airport	Bureau of Meteorology Weather Station, Airport, Alexander Street	A fibre cement clad and iron roofed office approx 20 years old. with detached store/balloon filling shed.
	11299160	0					
	1115167	0		Beacon Heights Road			
	11299155	0					
	11299151	0					
	11299154	0					
	11299157	0					Single level commercial/office building approx 20 yrs old, fibre cement panel walls and corrugated asbestos
	1215186	0		Sydney Highway			
	1290328	0					
	1215181	0					
	1215184	0					
	1291302	0					
	11016562	0					
	11016563	0					
	11444291	0					
	1115110	0 170		Nelson Mandela Walk			
	1115089	0		Sydney Highway			
	1115157	0		Beacon Heights Road			
	1189457	0		Sydney Highway			
	1115099	0		William Keeling Crescent			
	1115131	0		William Keeling Crescent	House 11	House 11, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
	1115112	0		William Keeling Crescent	House 19	House 19, William Keeling Crescent.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years old
	1115172	0		Air Force Road	House 32	House 32, Airforce Road.	A 25 year old, 3 bedroom, single level fibre cement clad and asbestos roof home in fair condition.
	1115087	0		Emden Walk	Shell Workshop	Shell Workshop, Emden Walk	Workshop of steel frame, aluminium clad walls and roof over concrete floor, approximately 10 years old.

LOCNO	PIN	LOT_NUM	HOUSENO	ADDRESS	DIAGRAM	DESCRIPTIO	IMPROVMENT
	1115098	0		William Keeling Crescent	William Keeling Cres.	Hospital and Nurses' Quaters, William Keeling Cres.	Hospital and Nurses Quaters, both approx. 20 yrs old of timber frame with asbestos clad walls and metal de
	1115120	0	139	Nelson Mandela Walk	0	House 39, Airforce Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
	1115151	0		Beacon Heights Road	0	House 44, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
	1115150	0		Beacon Heights Road	0	House 46, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
	1115158	0		Beacon Heights Road	0	House 43, Beacon Heights Road.	A 20 year old, single level, 3 bedroom, fibre cement clad and Colorbond roof dwelling in fair condition.
	1115184	0		Orion Road	0	House 26, Administrator's Residence, Orion Road.	A 25 year old, 3 bedroom, asbestos clad and corrugated asbestos roof dwelling, in fair condition
	1115190	0		Qantas Close	0	House 25, Caretaker's Unit, Qantas Close.	A 25 year old, one bedroom, single level brick and corrugated asbestos roof dwelling with timber flooring, in
	1115183	0		Qantas Close	House 4	House 4, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years d
	1115182	0		Qantas Close	House 3	House 3, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years d
	1115181	0		Qantas Close	House 2	House 2, Qantas Close.	A single level, 3 bedroom, fibre cement clad and corrugated asbestos roofed home approximately 16 years d
	1115109	0	128	Nelson Mandela Walk			
	1115175	0		Hajidun Lane		Transformer site	
	11218848	0			SCOUT HALL		Hall with concrete floor, timber framed asbestos clad walls and roof, approximately 40 years old and in poor
	1115100	0	175	Nelson Mandela Walk		Golf Club, Airforce Road.	Club rooms. A timber framed/asbestos clad and corrugated asbestos roof building approximately 30 years d
	11299184	0		Beacon Heights Road			
	11299224	0					STORAGE/WORKSHOP, FUEL TANKS AND PUMPING FACILITIES
	11444290	0					

LOCNO	PIN	PURPOSE	HOUSESUFFI	ADDRESSTYP	TENURE	SURVEY	DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC_AREA
0001	1115125			L		S036082	H291165	0214200944	S036082			1065.086000000000
0001	1115125			L		S036082	H291165	0214200944	S036082			1065.086000000000
0001	11444270			H		P044688	1	J585935	0260200977	P044688	1	674.813000000000
0002	11444271			H		P044688	2	J693981	0260200978	P044688	2	673.676000000000
0003	11444272			H		P044688	3	J585935	0260200979	P044688	3	674.163000000000
0004	11444273			H		P044688	4	J585935	0260200980	P044688	4	674.659000000000
0005	11444274			H		P044688	5	K656454	0260200981	P044688	5	675.163000000000
0006	11444275			H		P044688	6	K018432	0260200982	P044688	6	675.653000000000
0007	11444276			H		P044688	7	J585935	0260200983	P044688	7	676.180000000000
0008	11444277			H		P044688	8	J693979	0260200984	P044688	8	649.948000000000
0009	11444278			H		P044688	9	K477991	0260200985	P044688	9	980.869000000000
0010	11444280			H		P044688	10	J585935	0260200986	P044688	10	871.070000000000
0011	11444281			H		P044688	11	J585935	0260200987	P044688	11	932.774000000000
0012	11444282			H		P044688	12	J793762	0260200988	P044688	12	649.944000000000
0013	11444283			H		P044688	13	J793760	0260200989	P044688	13	649.991000000000
0014	11444284			H		P044688	14	J585935	0260200990	P044688	14	649.986000000000
0015	11444285			H		P044688	15	J992725	0260200991	P044688	15	649.981000000000
0016	11444286			H		P044688	16	J679225	0260200992	P044688	16	649.957000000000
0017	11444287			H		P044688	17	J585935	0260200993	P044688	17	649.952000000000
0018	11444288			H		P044688	18	J585935	0260200994	P044688	18	650.076000000000
0100	1115206					P018500	100	G142628	0210300109	P018500	100	60421.421000000000
0100	1115209					P018500	100	G142628	0210300109	P018500	100	14242.727000000000
0100	1115215					P018500	100	G142628	0210300109	P018500	100	83828.291000000000
0100	1115219					P018500	100	G142628	0210300109	P018500	100	2224830.055000000000
0100	1115220					P018500	100	G142628	0210300109	P018500	100	218632.116000000000
0100	1115224					P018500	100	G142628	0210300109	P018500	100	313.631000000000
0100	1115225					P018500	100	G142628	0210300109	P018500	100	328.608000000000
0100	1115226					P018500	100	G142628	0210300109	P018500	100	1380.285000000000
0100	1115207					P018500	100	G142628	0210300109	P018500	100	3617.222000000000
0100	1115208					P018500	100	G142628	0210300109	P018500	100	106.019000000000
0100	1115211					P018500	100	G142628	0210300109	P018500	100	548446.317999999900
0100	1115214					P018500	100	G142628	0210300109	P018500	100	13996.489000000000
0100	1115216					P018500	100	G142628	0210300109	P018500	100	118040.178000000000
0100	1115217					P018500	100	G142628	0210300109	P018500	100	406.919000000000
0100	1115221					P018500	100	G142628	0210300109	P018500	100	334051.403999999900
0100	1115227					P018500	100	G142628	0210300109	P018500	100	289.019000000000
0100	1115228					P018500	100	G142628	0210300109	P018500	100	1596.563000000000
0100	1115229					P018500	100	G142628	0210300109	P018500	100	254.882000000000
0100	1115230					P018500	100	G142628	0210300109	P018500	100	3975.753000000000
0100	1115231					P018500	100	G142628	0210300109	P018500	100	560.588000000000
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0100	1115233					P018500	100	G142628	0210300109	P018500	100	10578.916000000000
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0100	1115214					P018500	100	G142628	0210300109	P018500	100	13996.489000000000
0100	1115216					P018500	100	G142628	0210300109	P018500	100	118040.178000000000
0100	1115217					P018500	100	G142628	0210300109	P018500	100	406.919000000000
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0100	1115227					P018500	100	G142628	0210300109	P018500	100	289.019000000000
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0100	1115229					P018500	100	G142628	0210300109	P018500	100	254.882000000000
0100	1115230					P018500	100	G142628	0210300109	P018500	100	3975.753000000000
0100	1115231					P018500	100	G142628	0210300109	P018500	100	560.588000000000
0100	1115232					P018500	100	G142628	0210300109	P018500	100	9343.942000000000
0100	1115233					P018500	100	G142628	0210300109	P018500	100	10578.916000000000
0101	1115591				Plan	P018500	101	G142628	0210300110	P018500	101	1047567.249000000000
0101	1115180	ld			Location	P218313	101	I302759	0222300621	P218313	101	0
0101	1115180	ld			Location	P218313	101	I302759	0222300621	P218313	101	0
0102	1115590				Plan	P018500	102	G142628	0210300111	P018500	102	319638.663999999900
0102	1115592				Plan	P018500	102	G142628	0210300111	P018500	102	3975.514000000000
0102	1115181	GOVT REQUIREMENTS			Plan	P218313	102	I584705	LR0310200234	R 47343		0
0102	1115181	GOVT REQUIREMENTS			Plan	P218313	102	I584705	LR0310200234	R 47343		0
0103	1115182	ld			Crown Rese	P218313	103	I584705	LR0310200235	R 47344		0
0103	1115182	ld			Crown Rese	P218313	103	I584705	LR0310200235	R 47344		0
0104	1113733				Plan	P018500	104	G142628	0210300113	P018500	104	18500
0104	1113734				Plan	P018500	104	G142628	0210300113	P018500	104	18500
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0104	1115203				Plan	P018500	104	G142628	0210300113	P018500	104	18500
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0104	1115598				Plan	P018500	104	G142628	0210300113	P018500	104	18500
0104	1115599				Plan	P018500	104	G142628	0210300113	P018500	104	18500
0104	1115600				Plan	P018500	104	G142628	0210300113	P018500	104	18500
0104	1115601				Plan	P018500	104	G142628	0210300113	P018500	104	18500

LOCNO	PIN	PURPOSE	HOUSESUFFI	ADDRESS	STYP	TENURE	SURVEY	DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC_AREA
0104	1115602					Plan	P018500	104	G142628	0210300113	P018500	104	1280.273000000000
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0104	1115604					Plan	P018500	104	G142628	0210300113	P018500	104	222.894000000000
0104	1115605					Plan	P018500	104	G142628	0210300113	P018500	104	194610.065000000000
0104	1115606					Plan	P018500	104	G142628	0210300113	P018500	104	500.822000000000
0104	1115607					Plan	P018500	104	G142628	0210300113	P018500	104	100090.113000000000
0104	1115608					Plan	P018500	104	G142628	0210300113	P018500	104	113.679000000000
0104	1115609					Plan	P018500	104	G142628	0210300113	P018500	104	20340.506000000000
0104	1115610					Plan	P018500	104	G142628	0210300113	P018500	104	314.663000000000
0104	1115611					Plan	P018500	104	G142628	0210300113	P018500	104	1886.809000000000
0104	1115612					Plan	P018500	104	G142628	0210300113	P018500	104	829.754000000000
0104	1115613					Plan	P018500	104	G142628	0210300113	P018500	104	1156.734000000000
0104	1115614					Plan	P018500	104	G142628	0210300113	P018500	104	43064.236000000000
0104	1115615					Plan	P018500	104	G142628	0210300113	P018500	104	2599.135000000000
0104	1115616					Plan	P018500	104	G142628	0210300113	P018500	104	1352.847000000000
0104	1115617					Plan	P018500	104	G142628	0210300113	P018500	104	452.215000000000
0104	1115618					Plan	P018500	104	G142628	0210300113	P018500	104	2498.243000000000
0104	1115619					Plan	P018500	104	G142628	0210300113	P018500	104	234.442000000000
0104	1115620					Plan	P018500	104	G142628	0210300113	P018500	104	866.399000000000
0104	1115621					Plan	P018500	104	G142628	0210300113	P018500	104	380.037000000000
0104	1115622					Plan	P018500	104	G142628	0210300113	P018500	104	478.257000000000
0104	1115623					Plan	P018500	104	G142628	0210300113	P018500	104	2877.285000000000
0104	1115624					Plan	P018500	104	G142628	0210300113	P018500	104	2746.738000000000
0104	1115625					Plan	P018500	104	G142628	0210300113	P018500	104	2005.961000000000
0104	1115626					Plan	P018500	104	G142628	0210300113	P018500	104	962.226000000000
0104	1115627					Plan	P018500	104	G142628	0210300113	P018500	104	707.685000000000
0104	1115628					Plan	P018500	104	G142628	0210300113	P018500	104	967.837000000000
0104	1115629					Plan	P018500	104	G142628	0210300113	P018500	104	308.942000000000
0104	1115630					Plan	P018500	104	G142628	0210300113	P018500	104	321.818000000000
0104	1115631					Plan	P018500	104	G142628	0210300113	P018500	104	963.674000000000
0104	1115632					Plan	P018500	104	G142628	0210300113	P018500	104	878.624000000000
0104	1115633					Plan	P018500	104	G142628	0210300113	P018500	104	286.095000000000
0104	1115634					Plan	P018500	104	G142628	0210300113	P018500	104	248.967000000000
0104	1115635					Plan	P018500	104	G142628	0210300113	P018500	104	126.274000000000
0104	1115636					Plan	P018500	104	G142628	0210300113	P018500	104	256.640000000000
0104	1115637					Plan	P018500	104	G142628	0210300113	P018500	104	503.447000000000
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0104	1115654					Plan	P018500	104	G142628	0210300113	P018500	104	2393.179000000000
0104	1115655					Plan	P018500	104	G142628	0210300113	P018500	104	2593.056000000000
0104	1115656					Plan	P018500	104	G142628	0210300113	P018500	104	1114.706000000000
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0104	1115658					Plan	P018500	104	G142628	0210300113	P018500	104	351.380000000000
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0104	1115660					Plan	P018500	104	G142628	0210300113	P018500	104	797.139000000000
0104	1115661					Plan	P018500	104	G142628	0210300113	P018500	104	5997.031000000000
0104	1115662					Plan	P018500	104	G142628	0210300113	P018500	104	577.207000000000
0104	1115663					Plan	P018500	104	G142628	0210300113	P018500	104	7646.233000000000
0104	1115664					Plan	P018500	104	G142628	0210300113	P018500	104	432.298000000000
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0104	1115667					Plan	P018500	104	G142628	0210300113	P018500	104	731.710000000000
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0104	1115669					Plan	P018500	104	G142628	0210300113	P018500	104	1329.173000000000
0104	1115670					Plan	P018500	104	G142628	0210300113	P018500	104	1079.027000000000
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0104	1115672					Plan	P018500	104	G142628	0210300113	P018500	104	261.575000000000
0104	1115673					Plan	P018500	104	G142628	0210300113	P018500	104	357.822000000000
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0104	1115675					Plan	P018500	104	G142628	0210300113	P018500	104	495.099000000000
0104	1115676					Plan	P018500	104	G142628	0210300113	P018500	104	389.411000000000
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0104	1115679					Plan	P018500	104	G142628	0210300113	P018500	104	183.604000000000
0104	1115680					Plan	P018500	104	G142628	0210300113	P018500	104	670.980000000000
0104	1115681					Plan	P018500	104	G142628	0210300113	P018500	104	646.110000000000
0104	1115682					Plan	P018500	104	G142628	0210300113	P018500	104	221.146000000000
0104	1115683					Plan	P018500	104	G142628	0210300113	P018500	104	701.512000000000

LOCNO	PIN	PURPOSE	HOUSESUFFI	ADDRESSTYP	TENURE	SURVEY	DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC_AREA
0104	1115684				Plan	P018500	104	G142628	0210300113	P018500	104	508.022000000000
0104	1115685				Plan	P018500	104	G142628	0210300113	P018500	104	485.272000000000
0104	1115686				Plan	P018500	104	G142628	0210300113	P018500	104	250.529000000000
0104	1115687				Plan	P018500	104	G142628	0210300113	P018500	104	216.177000000000
0104	1115688				Plan	P018500	104	G142628	0210300113	P018500	104	523.297000000000
0104	1115689				Plan	P018500	104	G142628	0210300113	P018500	104	590.213000000000
0104	1115690				Plan	P018500	104	G142628	0210300113	P018500	104	2254.805000000000
0104	1115691				Plan	P018500	104	G142628	0210300113	P018500	104	1660.684000000000
0104	1115692				Plan	P018500	104	G142628	0210300113	P018500	104	117.505000000000
0104	1115693				Plan	P018500	104	G142628	0210300113	P018500	104	3562923.055999990000
0104	1115183	GOVT REQUIREMENTS			Location	P218313	104	I584705	LR0310200236	R 47345		857.761000000000
0104	1115183	GOVT REQUIREMENTS			Location	P218313	104	I584705	LR0310200236	R 47345		857.761000000000
0105	1115589								P018500	105		1265960.820000000000
0105	1115191				Plan	P218313	105	J919471	0210600117	COCOSL	00105	1101.398000000000
0105	1115191				Plan	P218313	105	J919471	0210600117	COCOSL	00105	1101.398000000000
0106	1115192				Location	P218313	106	K318323	0209500716	COCOSL	00106	1114.122000000000
0106	1115192				Location	P218313	106	K318323	0209500716	COCOSL	00106	1114.122000000000
0107	1115193				Location	P218313	107	K318324	0209500717	P218313	107	1047.857000000000
0107	1115193				Location	P218313	107	K318324	0209500717	P218313	107	1047.857000000000
0108	1115178				Crown Rese	P218313	108	I584705	LR0310200240	COCOSL	00108	949.544000000000
0108	1115178				Crown Rese	P218313	108	I584705	LR0310200240	COCOSL	00108	949.544000000000
0108	1115178				Crown Rese	P218313	108	I584705	LR0310200240	COCOSL	00108	949.544000000000
0109	1115177				Location	P218313	109	I100620	0221400428	COCOSL	00109	901.248000000000
0109	1115177				Location	P218313	109	I100620	0221400428	COCOSL	00109	901.248000000000
0110	1115127				Plan	P218319	110	I162201	0209500719	P218319	110	1161.502000000000
0110	1115127				Plan	P218319	110	I162201	0209500719	P218319	110	1161.502000000000
0111	1115131				Crown Rese	P218319	111	I693865	LR0310200243	R 47347		1078.342000000000
0111	1115131				Crown Rese	P218319	111	I693865	LR0310200243	R 47347		1078.342000000000
0112	1115130				Plan	P218319	112	I908787	0255800276	COCOSL	00112	1041.707000000000
0112	1115130				Plan	P218319	112	I908787	0255800276	COCOSL	00112	1041.707000000000
0113	1115129				Plan	P218319	113	I159138	0221400431	COCOSL	00113	1023.783000000000
0113	1115129				Plan	P218319	113	I159138	0221400431	COCOSL	00113	1023.783000000000
0114	1115128	GOVT REQUIREMENTS			Plan	P218319	114	I693865	LR0310200246	COCOSL	00114	1018.229000000000
0114	1115128	GOVT REQUIREMENTS			Plan	P218319	114	I693865	LR0310200246	COCOSL	00114	1018.229000000000
0114	1115128	GOVT REQUIREMENTS			Plan	P218319	114	I693865	LR0310200246	COCOSL	00114	1018.229000000000
0115	1115116				Location	P218319	115	I182966	0209500720	P218319	115	892.324000000000
0115	1115116				Location	P218319	115	I182966	0209500720	P218319	115	892.324000000000
0116	1115115	GOVT REQUIREMENTS			Plan	P218319	116	I693865	LR0310200248	COCOSL	00116	873.677000000000
0116	1115115	GOVT REQUIREMENTS			Plan	P218319	116	I693865	LR0310200248	COCOSL	00116	873.677000000000
0116	1115115	GOVT REQUIREMENTS			Plan	P218319	116	I693865	LR0310200248	COCOSL	00116	873.677000000000
0117	1115114				Location	P218319	117	I100622	0221400429	P218319	117	877.007000000000
0117	1115114				Location	P218319	117	I100622	0221400429	P218319	117	877.007000000000
0118	1115113				Plan	P218319	118	I922283	0257500823	COCOSL	00118	851.880000000000
0118	1115113				Plan	P218319	118	I922283	0257500823	COCOSL	00118	851.880000000000
0119	1115112	GOVT REQUIREMENTS			Location	P218319	119	I693865	LR0310200251	R 47352		864.425000000000
0119	1115112	GOVT REQUIREMENTS			Location	P218319	119	I693865	LR0310200251	R 47352		864.425000000000
0120	1115111				Location	P218319	120	J371571	0221400432	P218319	120	797.862000000000
0120	1115111				Location	P218319	120	J371571	0221400432	P218319	120	797.862000000000
0121	1115121	ondition		L	Location	P218319	121	I921902	0208800244	P218319	121	917.242000000000
0121	1115121	ondition		L	Location	P218319	121	I921902	0208800244	P218319	121	917.242000000000
0122	1115122	ondition		L	Location	P218319	122	G474889	0208800243	P218319	122	937.611000000000
0122	1115122	ondition		L	Location	P218319	122	G474889	0208800243	P218319	122	937.611000000000
0123	1115125			L		S036082		H291165	0214200944	S036082		1065.086000000000
0124	1115126			L	Location	P218319	124	G390001	0209500722	COCOSL	00124	965.707000000000
0124	1115126			L	Location	P218319	124	G390001	0209500722	COCOSL	00124	965.707000000000
0125	1115190	GOVT REQUIREMENTS			Plan	P218313	125	I584705	LR0310200257	R 47353		773.390000000000
0125	1115190	GOVT REQUIREMENTS			Plan	P218313	125	I584705	LR0310200257	R 47353		773.390000000000
0126	1115184				Crown Rese	P218313	126	I584705	LR0310200258	R 47354		2239.617000000000
0126	1115184				Crown Rese	P218313	126	I584705	LR0310200258	R 47354		2239.617000000000
0127	1115185	GOVT REQUIREMENTS		L	Plan	P218313	127	I584705	LR0310200259	COCOSL	00127	1264.601000000000
0127	1115185	GOVT REQUIREMENTS		L	Plan	P218313	127	I584705	LR0310200259	COCOSL	00127	1264.601000000000
0127	1115185	GOVT REQUIREMENTS		L	Plan	P218313	127	I584705	LR0310200259	COCOSL	00127	1264.601000000000
0128	1115109	GOVT REQUIREMENTS		L	Location	P218319	128	I118045	LR0312600663	R 47356		991.538000000000
0128	1115109	GOVT REQUIREMENTS		L	Location	P218319	128	I118045	LR0312600663	R 47356		991.538000000000
0129	1115186			L	Plan	P218313	129	H352009	0209500723	COCOSL	00129	1204.725000000000
0129	1115186			L	Plan	P218313	129	H352009	0209500723	COCOSL	00129	1204.725000000000
0130	1115173				Plan	P218317	130	H274862	0214200954	COCOSL	00130	875.907000000000
0130	1115173				Plan	P218317	130	H274862	0214200954	COCOSL	00130	875.907000000000
0131	1115194	GOVT REQUIREMENTS			Plan	P218313	131	I584705	LR0310200263	P218313	131	1076.011000000000
0131	1115194	GOVT REQUIREMENTS			Plan	P218313	131	I584705	LR0310200263	P218313	131	1076.011000000000
0131	1115194	GOVT REQUIREMENTS			Plan	P218313	131	I584705	LR0310200263	P218313	131	1076.011000000000
0132	1115172	GOVT REQUIREMENTS			Plan	P218317	132	I693865	LR0310200264	R 47358		1366.248000000000
0132	1115172	GOVT REQUIREMENTS			Plan	P218317	132	I693865	LR0310200264	R 47358		1366.248000000000
0133	1115195	dition.			Location	P218313	133	I296139	0222300615	COCOSL	00133	682.325000000000
0133	1115195	dition.			Location	P218313	133	I296139	0222300615	COCOSL	00133	682.325000000000
0134	1115187	dition		L	Plan	P218313	134	K275577	0214200934	COCOSL	00134	1204.800000000000
0134	1115187	dition		L	Plan	P218313	134	K275577	0214200934	COCOSL	00134	1204.800000000000
0135	1115108	GOVT REQUIREMENTS		L	Plan	P218319	135	I693865	LR0310200267	P218319	135	1106.944000000000
0135	1115108	GOVT REQUIREMENTS		L	Plan	P218319	135	I693865	LR0310200267	P218319	135	1106.944000000000
0135	1115108	GOVT REQUIREMENTS		L	Plan	P218319	135	I693865	LR0310200267	P218319	135	1106.944000000000
0136	1115176				Location	P218313	136	H278686	0214200938	COCOSL	00136	972.275000000000
0136	1115176				Location	P218313	136	H278686	0214200938	COCOSL	00136	972.275000000000

LOCNO	PIN	PURPOSE	HOUSESUFFI	ADDRESSTYP	TENURE	SURVEY	DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC AREA
0137	1115124			L	Location	P218319 137	H255995	0214200935	COCOSL 00137		Y	1006.420000000000
0137	1115124			L	Location	P218319 137	H255995	0214200935	COCOSL 00137		Y	1006.420000000000
0138	1115123			L	Crown Rese	P218319 138	I693866	LR0310200270	P218319 138		N	1143.503000000000
0138	1115123			L	Crown Rese	P218319 138	I693866	LR0310200270	P218319 138		N	1143.503000000000
0138	1115123			L	Crown Rese	P218319 138	I693866	LR0310200270	P218319 138		N	1143.503000000000
0139	1115120	GOVT REQUIREMENTS		L	Plan	P218319 139	I693866	LR0310200271	R 47361		Y	1804.567000000000
0139	1115120	GOVT REQUIREMENTS		L	Plan	P218319 139	I693866	LR0310200271	R 47361		Y	1804.567000000000
0140	1115119	GOVT REQUIREMENTS		L	Location	P218319 140	I693866	LR0310200272	COCOSL 00140		Y	1261.532000000000
0140	1115119	GOVT REQUIREMENTS		L	Location	P218319 140	I693866	LR0310200272	COCOSL 00140		Y	1261.532000000000
0140	1115119	GOVT REQUIREMENTS		L	Location	P218319 140	I693866	LR0310200272	COCOSL 00140		Y	1261.532000000000
0141	1115106	GOVT REQUIREMENTS			Location	P218319 141	I693866	LR0310200273	COCOSL 00141			1044.206000000000
0141	1115106	GOVT REQUIREMENTS			Location	P218319 141	I693866	LR0310200273	COCOSL 00141			1044.206000000000
0141	1115106	GOVT REQUIREMENTS			Location	P218319 141	I693866	LR0310200273	COCOSL 00141			1044.206000000000
0142	1115152				Location	P218315 142	J428962	0214200997	COCOSL 00142		Y	954.523000000000
0142	1115152				Location	P218315 142	J428962	0214200997	COCOSL 00142		Y	954.523000000000
0143	1115158	GOVT REQUIREMENTS			Plan	P218315 143	I251070	LR0310200275	R 47364		Y	974.186000000000
0143	1115158	GOVT REQUIREMENTS			Plan	P218315 143	I251070	LR0310200275	R 47364		Y	974.186000000000
0144	1115151	GOVT REQUIREMENTS			Location	P218315 144	I251070	LR0310200276	R 47365		Y	909.639000000000
0144	1115151	GOVT REQUIREMENTS			Location	P218315 144	I251070	LR0310200276	R 47365		Y	909.639000000000
0145	1115159				Location	P218315 145	J726973	0221400435	P218315 145		Y	960.764000000000
0145	1115159				Location	P218315 145	J726973	0221400435	P218315 145		Y	960.764000000000
0146	1115150	GOVT REQUIREMENTS			Plan	P218315 146	I251070	LR0310200278	R 47366		Y	825.502000000000
0146	1115150	GOVT REQUIREMENTS			Plan	P218315 146	I251070	LR0310200278	R 47366		Y	825.502000000000
0147	1115161	GOVT REQUIREMENTS			Plan	P218315 147	I251070	LR0310200279	COCOSL 00147		Y	971.078000000000
0147	1115161	GOVT REQUIREMENTS			Plan	P218315 147	I251070	LR0310200279	COCOSL 00147		Y	971.078000000000
0147	1115161	GOVT REQUIREMENTS			Plan	P218315 147	I251070	LR0310200279	COCOSL 00147		Y	971.078000000000
0148	1115135				Leasehold	P218315 148	K915034	0221400437	COCOSL 00148		Y	779.461000000000
0148	1115135				Leasehold	P218315 148	K915034	0221400437	COCOSL 00148		Y	779.461000000000
0149	1115162				Plan	P218315 149	I335141	0222300686	P218315 149		Y	896.269000000000
0149	1115162				Plan	P218315 149	I335141	0222300686	P218315 149		Y	896.269000000000
0150	1115134	GOVT REQUIREMENTS			Plan	P218315 150	I251070	LR0310200282	COCOSL 00150		Y	999.613000000000
0150	1115134	GOVT REQUIREMENTS			Plan	P218315 150	I251070	LR0310200282	COCOSL 00150		Y	999.613000000000
0150	1115134	GOVT REQUIREMENTS			Plan	P218315 150	I251070	LR0310200282	COCOSL 00150		Y	999.613000000000
0151	1115163				Crown Rese	P218315 151	I251070	LR0310200283	COCOSL 00151		Y	945.925000000000
0151	1115163				Crown Rese	P218315 151	I251070	LR0310200283	COCOSL 00151		Y	945.925000000000
0151	1115163				Crown Rese	P218315 151	I251070	LR0310200283	COCOSL 00151		Y	945.925000000000
0152	1115133				Location	P218315 152	J607334	0214200939	P218315 152		Y	904.350000000000
0152	1115133				Location	P218315 152	J607334	0214200939	P218315 152		Y	904.350000000000
0153	1115164				Crown Rese	P218315 153	I251070	LR0310200285	COCOSL 00153		Y	1068.899000000000
0153	1115164				Crown Rese	P218315 153	I251070	LR0310200285	COCOSL 00153		Y	1068.899000000000
0153	1115164				Crown Rese	P218315 153	I251070	LR0310200285	COCOSL 00153		Y	1068.899000000000
0154	1115132				Location	P218315 154	J296666	0261500337	P218315 154		Y	798.549000000000
0154	1115132				Location	P218315 154	J296666	0261500337	P218315 154		Y	798.549000000000
0155	1115165	GOVT REQUIREMENTS			Plan	P218315 155	I251070	LR0310200287	P218315 155		0	1045.861000000000
0155	1115165	GOVT REQUIREMENTS			Plan	P218315 155	I251070	LR0310200287	P218315 155		0	1045.861000000000
0155	1115165	GOVT REQUIREMENTS			Plan	P218315 155	I251070	LR0310200287	P218315 155		0	1045.861000000000
0156	1115153	GOVT REQUIREMENTS			Location	P218315 156	I251070	LR0310200288	COCOSL 00156		Y	1234.535000000000
0156	1115153	GOVT REQUIREMENTS			Location	P218315 156	I251070	LR0310200288	COCOSL 00156		Y	1234.535000000000
0156	1115153	GOVT REQUIREMENTS			Location	P218315 156	I251070	LR0310200288	COCOSL 00156		Y	1234.535000000000
0157	1115166				Plan	P218315 157	J296665	0261500336	P218315 157		Y	940.754000000000
0157	1115166				Plan	P218315 157	J296665	0261500336	P218315 157		Y	940.754000000000
0158	1115154	GOVT REQUIREMENTS			Location	P218315 158	I958158	0257300836	COCOSL 00158		Y	1183.136000000000
0158	1115154	GOVT REQUIREMENTS			Location	P218315 158	I958158	0257300836	COCOSL 00158		Y	1183.136000000000
0159	1115170				Crown Rese	P218315 159	I251070	LR0310200291	COCOSL 00159		N	818.786000000000
0159	1115170				Crown Rese	P218315 159	I251070	LR0310200291	COCOSL 00159		N	818.786000000000
0159	1115170				Crown Rese	P218315 159	I251070	LR0310200291	COCOSL 00159		N	818.786000000000
0160	1115107	ete floor.		L	Crown Rese	P218319 160	I699078	LR0310200292	P218319 160		Y	1400.096000000000
0160	1115107	ete floor.		L	Crown Rese	P218319 160	I699078	LR0310200292	P218319 160		Y	1400.096000000000
0160	1115107	ete floor.		L	Crown Rese	P218319 160	I699078	LR0310200292	P218319 160		Y	1400.096000000000
0161	1115169				Plan	P218315 161	H274696	0214200950	P218315 161		N	889.186000000000
0161	1115169				Plan	P218315 161	H274696	0214200950	P218315 161		N	889.186000000000
0162	1115188			L	Plan	P218313 162	J428150	0214200942	COCOSL 00162	Air Force Road.		808.427000000000
0162	1115188			L	Plan	P218313 162	J428150	0214200942	COCOSL 00162	Air Force Road.		808.427000000000
0163	1115168				Location	P218315 163	G482612	0209500725	COCOSL 00163		N	1174.633000000000
0163	1115168				Location	P218315 163	G482612	0209500725	COCOSL 00163		N	1174.633000000000
0164	1115189			L	Location	P218313 164	J954718	0209800012	P218313 164	Air Force Road.		1035.879000000000
0164	1115189			L	Location	P218313 164	J954718	0209800012	P218313 164	Air Force Road.		1035.879000000000
0165	1115171				Plan	P218317 165	H277058	0214200943	P218317 165	Air Force Road.		696.529000000000
0165	1115171				Plan	P218317 165	H277058	0214200943	P218317 165	Air Force Road.		696.529000000000
0166	1115174	PROTECTION OF SURVEY MARK			Plan	P218317 166	G308945	LR0310200298	P218317 166	FORESHORE PROTECTION AND NATURE CONSERVATION		1994.005000000000
0166	1115174	PROTECTION OF SURVEY MARK			Plan	P218317 166	G308945	LR0310200298	P218317 166	FORESHORE PROTECTION AND NATURE CONSERVATION		1994.005000000000
0166	1115174	PROTECTION OF SURVEY MARK			Plan	P218317 166	G308945	LR0310200298	P218317 166	FORESHORE PROTECTION AND NATURE CONSERVATION		1994.005000000000
0167	1115196	RECREATION & FORESHORE M'MENT			Plan	P218316 167	G698759	LR0308100832	P218316 167	FORESHORE PROTECTION AND NATURE CONSERVATION		39555.487000000000
0167	1115196	RECREATION & FORESHORE M'MENT			Plan	P218316 167	G698759	LR0308100832	P218316 167	FORESHORE PROTECTION AND NATURE CONSERVATION		39555.487000000000
0167	1115196	RECREATION & FORESHORE M'MENT			Plan	P218316 167	G698759	LR0308100832	P218316 167	FORESHORE PROTECTION AND NATURE CONSERVATION		39555.487000000000
0168	1115175	SUB STATION			Location	P218313 168	I584705	LR0310200300	R 47327			74.840000000000
0168	1115175	SUB STATION			Location	P218313 168	I584705	LR0310200300	R 47327			74.840000000000
0169	1115117	SCHOOL		L	Location	P218319 169	G308947	LR0310200301	P218319 169	PUBLIC PURPOSE - SCHOOL	School	11433.243000000000
0169	1115117	SCHOOL		L	Location	P218319 169	G308947	LR0310200301	P218319 169	PUBLIC PURPOSE - SCHOOL	School	11433.243000000000
0169	1115117	SCHOOL		L	Location	P218319 169	G308947	LR0310200301	P218319 169	PUBLIC PURPOSE - SCHOOL	School	11433.243000000000
0170	1115110	RECREATION		L	Location	P218319 170	G308946	LR0307900866	R 44514			6991.721000000000
0170	1115110	RECREATION		L	Location	P218319 170	G308946	LR0307900866	R 44514			6991.721000000000

LOCNO	PIN	PURPOSE	HOUSESUFFI	ADDRESSTYP	TENURE	SURVEY	DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC AREA
0173	1115103				Plan	P218319 173	I923246	0210600119	P218319 173		Ciunies-Ross Ave	1533.351000000000
0173	1115103				Plan	P218319 173	I923246	0210600119	P218319 173		Ciunies-Ross Ave	1533.351000000000
0174	1115102	years old.			Location	P218319 174	H936247	0221400418	P218319 174		Y	1757.623000000000
0174	1115102	years old.			Location	P218319 174	H936247	0221400418	P218319 174		Y	1757.623000000000
0175	1115100	RECREATION		L	Plan	P218319 175	I699078	LR0310200306	R 47326	PARKS AND RECREATION	Airforce Road.	1002.064000000000
0175	1115100	RECREATION		L	Plan	P218319 175	I699078	LR0310200306	R 47326	PARKS AND RECREATION	Airforce Road.	1002.064000000000
0176	1115101	SUB STATION		L	Plan	P218319 176	I699078	LR0310200307	P218319 176	PARKS AND RECREATION		129.533000000000
0176	1115101	SUB STATION		L	Plan	P218319 176	I699078	LR0310200307	P218319 176	PARKS AND RECREATION		129.533000000000
0176	1115101	SUB STATION		L	Plan	P218319 176	I699078	LR0310200307	P218319 176	PARKS AND RECREATION		129.533000000000
0178	1115095				Crown Rese	P218318 178	I693866	LR0310200309	P218318 178		Cocus Club/Cyclone Shelter	1222.063000000000
0178	1115095				Crown Rese	P218318 178	I693866	LR0310200309	P218318 178		Cocus Club/Cyclone Shelter	1222.063000000000
0178	1115095				Crown Rese	P218318 178	I693866	LR0310200309	P218318 178		Cocus Club/Cyclone Shelter	1222.063000000000
0179	1115089	RECREATION			Plan	P218318 179	G308943	LR0310200310	R 44517			9209.945000000000
0179	1115089	RECREATION			Plan	P218318 179	G308943	LR0310200310	R 44517			9209.945000000000
0180	1115090	GOVT REQUIREMENTS			Plan	P218318 180	J063281	0257500891	COCOSL 00180		The Lodge	9383.404000000000
0180	1115090	GOVT REQUIREMENTS			Plan	P218318 180	J063281	0257500891	COCOSL 00180		The Lodge	9383.404000000000
0181	1115094	ld.			Location	P218318 181	G915983	0209800013	COCOSL 00181		0	726.183000000000
0181	1115094	ld.			Location	P218318 181	G915983	0209800013	COCOSL 00181		0	726.183000000000
0182	1115098	GOVT REQUIREMENTS			Plan	P218319 182	I693866	LR0310200313	R 47342	PUBLIC PURPOSE - HOSPITAL	Hospital and Nurses' Quaters	2000.690000000000
0182	1115098	GOVT REQUIREMENTS			Plan	P218319 182	I693866	LR0310200313	R 47342	PUBLIC PURPOSE - HOSPITAL	Hospital and Nurses' Quaters	2000.690000000000
0184	1115082	ween 10-15 years.			Crown Rese	P218318 184	I702117	LR0310200315	COCOSL 00184		0	15168.354000000000
0184	1115082	ween 10-15 years.			Crown Rese	P218318 184	I702117	LR0310200315	COCOSL 00184		0	15168.354000000000
0184	1115082	ween 10-15 years.			Crown Rese	P218318 184	I702117	LR0310200315	COCOSL 00184		0	15168.354000000000
0187	1115088	CHURCH SITE			Location	P218318 187	H368050	LR0310200318	P218318 187		Mosque	1137.352000000000
0187	1115088	CHURCH SITE			Location	P218318 187	H368050	LR0310200318	P218318 187		Mosque	1137.352000000000
0187	1115088	CHURCH SITE			Location	P218318 187	H368050	LR0310200318	P218318 187		Mosque	1137.352000000000
0188	1115087	GOVT REQUIREMENTS			Location	P218318 188	I693866	LR0310200319	R 47375		0	521.616000000000
0188	1115087	GOVT REQUIREMENTS			Location	P218318 188	I693866	LR0310200319	R 47375		0	521.616000000000
0189	1115086				Crown Rese	P218318 189	I693866	LR0310200320	COCOSL 00189		Y	568.499000000000
0189	1115086				Crown Rese	P218318 189	I693866	LR0310200320	COCOSL 00189		Y	568.499000000000
0189	1115086				Crown Rese	P218318 189	I693866	LR0310200320	COCOSL 00189		Y	568.499000000000
0190	1115085				Plan	P218318 190	H926794	0209800014	COCOSL 00190			705.292000000000
0190	1115085				Plan	P218318 190	H926794	0209800014	COCOSL 00190			705.292000000000
0191	1115118	tion.		L	Plan	P218319 191	J640291	0214200952	COCOSL 00191		Y	1048.630000000000
0191	1115118	tion.		L	Plan	P218319 191	J640291	0214200952	COCOSL 00191		Y	1048.630000000000
0192	1115179			L	Plan	P218313 192	G511209	0210600120	COCOSL 00192		Y	1219.140000000000
0192	1115179			L	Plan	P218313 192	G511209	0210600120	COCOSL 00192		Y	1219.140000000000
0197	1115160	PEDESTRIAN ACCESS WAY			Plan	P218315 197	G308948	LR0310200326	COCOSL 00197			164.855000000000
0197	1115160	PEDESTRIAN ACCESS WAY			Plan	P218315 197	G308948	LR0310200326	COCOSL 00197			164.855000000000
0197	1115160	PEDESTRIAN ACCESS WAY			Plan	P218315 197	G308948	LR0310200326	COCOSL 00197			164.855000000000
0198	1115167				Crown Rese	P218315 198	G308954	LR0310200327	R 44520			125.805000000000
0198	1115167				Crown Rese	P218315 198	G308954	LR0310200327	R 44520			125.805000000000
0199	1115091				Crown Rese	P218318 199	G308953	LR0310200328	COCOSL 00199			99.625000000000
0199	1115091				Crown Rese	P218318 199	G308953	LR0310200328	COCOSL 00199			99.625000000000
0199	1115091				Crown Rese	P218318 199	G308953	LR0310200328	COCOSL 00199			99.625000000000
0202	1115062				Vacant Cro	P218218 202	K820057	LR0300400958	COCOSL 00202		TRANSMITTER SITE	112118.346000000000
0202	1115062				Vacant Cro	P218218 202	K820057	LR0300400958	COCOSL 00202		TRANSMITTER SITE	112118.346000000000
0206	1115063				Vacant Cro	P218218 206	K820057	LR0300400960	COCOSL 00206			32044.372000000000
0206	1115063				Vacant Cro	P218218 206	K820057	LR0300400960	COCOSL 00206			32044.372000000000
0207	1115061				Vacant Cro	P218218 207	K820057	LR0300400962	P218218 207			24283.378000000000
0207	1115061				Vacant Cro	P218218 207	K820057	LR0300400962	P218218 207			24283.378000000000
0209	1115059	METEOROLOGY STATION			Plan	P218225 209	I699078	LR0310200338	R 47322	SPECIAL USE - METEOROLOGICAL STATION	Bureau of Meteorology Weather Station	41171.464000000000
0209	1115059	METEOROLOGY STATION			Plan	P218225 209	I699078	LR0310200338	R 47322	SPECIAL USE - METEOROLOGICAL STATION	Bureau of Meteorology Weather Station	41171.464000000000
0221	1115099	MEMORIAL SITE			Location	P218319 221	G308949	LR0310200344	R 44526	FORESHORE PROTECTION AND NATURE CONSERVATION		15.014000000000
0221	1115099	MEMORIAL SITE			Location	P218319 221	G308949	LR0310200344	R 44526	FORESHORE PROTECTION AND NATURE CONSERVATION		15.014000000000
0222	1115197				Crown Rese	P218316 222	G308952	LR0310200345	COCOSL 00222			39.370000000000
0222	1115197				Crown Rese	P218316 222	G308952	LR0310200345	COCOSL 00222			39.370000000000
0222	1115197				Crown Rese	P218316 222	G308952	LR0310200345	COCOSL 00222			39.370000000000
0313	1115148	SUB STATION			Plan	P218315 313	I251070	LR0310200359	P218315 313			34.982000000000
0313	1115148	SUB STATION			Plan	P218315 313	I251070	LR0310200359	P218315 313			34.982000000000
0313	1115148	SUB STATION			Plan	P218315 313	I251070	LR0310200359	P218315 313			34.982000000000
0315	1115149				Plan	P218315 315	J402480	0210600122	P218315 315		Buffet Close.	1023.068000000000
0315	1115149				Plan	P218315 315	J402480	0210600122	P218315 315		Buffet Close.	1023.068000000000
0316	1115155					P218315 316	G308955	LR0310200361	COCOSL 00316			6759.033000000000
0316	1115155					P218315 316	G308955	LR0310200361	COCOSL 00316			6759.033000000000
0316	1115155					P218315 316	G308955	LR0310200361	COCOSL 00316			6759.033000000000
0317	1115157	TELECOMMUNICATION SITE			Location	P218315 317	G308951	LR0310200362	R 44524			911.439000000000
0317	1115157	TELECOMMUNICATION SITE			Location	P218315 317	G308951	LR0310200362	R 44524			911.439000000000
0319	1189457	TELECOMMUNICATION SITE			Plan	P191375 319	G308950	LR0310200364	R 44525			117.517000000000
0319	1189457	TELECOMMUNICATION SITE			Plan	P191375 319	G308950	LR0310200364	R 44525			117.517000000000
0323	1194332				Location	P193057 323	G449167	0209800015	P193057 323	SPECIAL USE		1032.993000000000
0323	1194332				Location	P193057 323	G449167	0209800015	P193057 323	SPECIAL USE		1032.993000000000
0326	1215186				Plan	P219651 326	H041229	LR0310900985	V CROWN LAND	GENERAL RURAL		276.905000000000
0326	1215186				Plan	P219651 326	H041229	LR0310900985	V CROWN LAND	GENERAL RURAL		276.905000000000
0327	1215187				Vacant Cro	P219651 327	H041228	LR0310900986	COCOSL 00327			208791.803000000000
0327	1215187				Vacant Cro	P219651 327	H041228	LR0310900986	COCOSL 00327			208791.803000000000
0327	1215187				Vacant Cro	P219651 327	H041228	LR0310900986	COCOSL 00327			208791.803000000000
0328	1215182				Vacant Cro	P219652 328	H192134	LR0309800918	COCOSL 00328			99589.136000000000
0328	1215182				Vacant Cro	P219652 328	H192134	LR0309800918	COCOSL 00328			99589.136000000000
0328	1215182				Vacant Cro	P219652 328	H192134	LR0309800918	COCOSL 00328			99589.136000000000
0329	1290328				Vacant Cro	P219652 329	H192134	LR0309800919	V CROWN LAND			332.941000000000
0329	1290328				Vacant Cro	P219652 329	H192134	LR0309800919	V CROWN LAND			332.941000000000

LOCNO	PIN	PURPOSE	HOUSESUFFI	ADDRESSTYP	TENURE	SURVEY	DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC_AREA
0331	1303141				Plan	P194602	331	H506461	LR0311500959	P194602	331	49875.042000000000
0331	1303141				Plan	P194602	331	H506461	LR0311500959	P194602	331	49875.042000000000
0331	1303141				Plan	P194602	331	H506461	LR0311500959	P194602	331	49875.042000000000
0332	1303140				Vacant Cro	P194602	332	H506461	LR0311500960	P194602	332	49999.960000000000
0332	1303140				Vacant Cro	P194602	332	H506461	LR0311500960	P194602	332	49999.960000000000
0332	1303140				Vacant Cro	P194602	332	H506461	LR0311500960	P194602	332	49999.960000000000
0333	11256183	pr, 1 yr old.				P040839	333	I875001	LR0313100177	COCOSL	00333	89.998000000000
0333	11256183	pr, 1 yr old.				P040839	333	I875001	LR0313100177	COCOSL	00333	89.998000000000
0333	11256183	pr, 1 yr old.				P040839	333	I875001	LR0313100177	COCOSL	00333	89.998000000000
0334	11256184					P040839	334	I875001	LR0313100178	P040839	334	10593.396000000000
0334	11256184					P040839	334	I875001	LR0313100178	P040839	334	10593.396000000000
0334	11256184					P040839	334	I875001	LR0313100178	P040839	334	10593.396000000000
0335	11299225	pr, 1 yr old.				P042276	335	I930414	LR0313400759	P042276	335	11945.235000000000
0335	11299225	pr, 1 yr old.				P042276	335	I930414	LR0313400759	P042276	335	11945.235000000000
0336	11218848	condition.			Crown Rese	P027316	336	I702117	LR0311800369	V CROWN LAND		1233.926000000000
0336	11218848	condition.			Crown Rese	P027316	336	I702117	LR0311800369	V CROWN LAND		1233.926000000000
0337	11218847	KINDERGARTEN			Plan	P027316	337	I702117	LR0311800370	P027316	337	1082.537000000000
0337	11218847	KINDERGARTEN			Plan	P027316	337	I702117	LR0311800370	P027316	337	1082.537000000000
0337	11218847	KINDERGARTEN			Plan	P027316	337	I702117	LR0311800370	P027316	337	1082.537000000000
0338	1365196	FORESHORE MANAGEMENT			Location	P027660	338	I202046	LR0312900415	P027660	338	6524.609000000000
0338	1365196	FORESHORE MANAGEMENT			Location	P027660	338	I202046	LR0312900415	P027660	338	6524.609000000000
0338	1365196	FORESHORE MANAGEMENT			Location	P027660	338	I202046	LR0312900415	P027660	338	6524.609000000000
0339	1365195				Crown Rese	P027660	339	I553518	LR0312500597	COCOSL	00339	22562.457000000000
0339	1365195				Crown Rese	P027660	339	I553518	LR0312500597	COCOSL	00339	22562.457000000000
0339	1365195				Crown Rese	P027660	339	I553518	LR0312500597	COCOSL	00339	22562.457000000000
0340	11299184					P042275	340	I921025	LR0313400762	R 44518		1139.086000000000
0341	11299159					P042274	341	J029903	LR0313300400	P042274	341	985021.283000000000
0341	11299159					P042274	341	J029903	LR0313300400	P042274	341	985021.283000000000
0342	11299160					P042274	342	J029903	LR0313300401	R 47727		55485.942000000000
0343	11299155					P042274	343	J029903	LR0313300402	R 47728		1920.156000000000
0344	11299154					P042274	344	J029903	LR0313300403	R 47729		3340.437000000000
0345	11299151					P042274	345	J029903	LR0313300404	R 47730		4128.428000000000
0346	11299152					P042274	346	J029903	LR0313300405	P042274	346	42.000000000000
0346	11299152					P042274	346	J029903	LR0313300405	P042274	346	42.000000000000
0347	11299153					P042274	347	J029903	LR0313300406	P042274	347	1631.833000000000
0347	11299153					P042274	347	J029903	LR0313300406	P042274	347	1631.833000000000
0348	11299157	roof.				P042274	348	J029903	LR0313300407	R 47743		1268.549000000000
0349	11299158	roof.				P042274	349	J029903	LR0313300408	P042274	349	2458.566000000000
0349	11299158	roof.				P042274	349	J029903	LR0313300408	P042274	349	2458.566000000000
0350	11299156					P042274	350	J029903	LR0313300409	P042274	350	2024.727000000000
0350	11299156					P042274	350	J029903	LR0313300409	P042274	350	2024.727000000000
0351	11299224					P042276	351	I930414	LR0313300568	R 47722		15406.522000000000
0600	11607568					P052168	600	K066022	0264700273	P052168	600	1517.455000000000
1000	1365197		H		Plan	P027660	1000	I268597	0221400422	P027660	1000	12610.798000000000
1001	1365194		H		Plan	P027660	1001	I900776	0221400423	P027660	1001	6870.880000000000
1106	1113721				Plan	P030520	1106	I163747	0254900671	P030520	1106	844512.407000000000
1106	1113721				Plan	P030520	1106	I163747	0254900671	P030520	1106	844512.407000000000
1107	11016564				Plan	P030520	1107	I163747	0254900672	P030520	1107	2005.433000000000
1108	1113731				Plan	P030520	1108	I163747	0254900673	P030520	1108	1080.526000000000
1108	1113731				Plan	P030520	1108	I163747	0254900673	P030520	1108	1080.526000000000
1109	1113730				Plan	P030520	1109	I163747	0254900674	P030520	1109	536.892000000000
1109	1113730				Plan	P030520	1109	I163747	0254900674	P030520	1109	536.892000000000
3003	11444290					P044688	3003	J585935	LR0313600731	R 47378		81291.437000000000
3004	11444293		H			P044688	3004	J585935	0260200995	P044688	3004	624.327000000000
3005	11444289		H			P044688	3005	J585935	0260200996	P044688	3005	835.458000000000
3006	11444279					P044688	3006	J585935	0260200997	P044688	3006	136.150000000000
	11203780											
	11203781								P ROAD			48541.290000000000
	1115059	METEOROLOGY STATION			Plan	P218225	209	I699078	LR0310200338	R 47322		41171.464000000000
	11299160					P042274	342	J029903	LR0313300401	R 47727		55485.942000000000
	1115167				Crown Rese	P218315	198	G308954	LR0310200327	R 44520		125.805000000000
	11299155					P042274	343	J029903	LR0313300402	R 47728		1920.156000000000
	11299151					P042274	345	J029903	LR0313300404	R 47730		4128.428000000000
	11299154					P042274	344	J029903	LR0313300403	R 47729		3340.437000000000
	11299157	roof.				P042274	348	J029903	LR0313300407	R 47743		1268.549000000000
	1215186				Plan	P219651	326	H041229	LR0310900985	V CROWN LAND		276.905000000000
	1290328				Vacant Cro	P219652	329	H192134	LR0309800919	V CROWN LAND		332.941000000000
	1215181				Road				P ROAD			2101.076000000000
	1215184								P ROAD			3814.913000000000
	1291302				Road				P ROAD			23131.816000000000
	11016562				Road				P ROAD			8247.769000000000
	11016563				Road				P ROAD			345.806000000000
	11444291								P ROAD			4429.826000000000
	1115110	RECREATION	L		Location	P218319	170	G308946	LR0307900866	R 44514		6991.721000000000
	1115089	RECREATION			Plan	P218318	179	G308943	LR0310200310	R 44517		9209.945000000000
	1115157	TELECOMMUNICATION SITE			Location	P218315	317	G308951	LR0310200362	R 44524		911.439000000000
	1189457	TELECOMMUNICATION SITE			Plan	P191375	319	G308950	LR0310200364	R 44525		117.517000000000
	1115099	MEMORIAL SITE			Location	P218319	221	G308949	LR0310200344	R 44526		15.014000000000
	1115131	id			Crown Rese	P218319	111	I693865	LR0310200243	R 47347		1078.342000000000
	1115112	GOVT REQUIREMENTS			Location	P218319	119	I693865	LR0310200251	R 47352		864.425000000000
	1115172	GOVT REQUIREMENTS			Plan	P218317	132	I693865	LR0310200264	R 47358		1366.248000000000
	1115087	GOVT REQUIREMENTS			Location	P218318	188	I693866	LR0310200319	R 47375		521.616000000000

LOCNO	PIN	PURPOSE	HOUSESUFFI	ADDRESSTYP	TENURE	SURVEY	DOCNO	CT	PIPARCEL	ZONING	PLAN	CALC_AREA
	1115098	GOVT REQUIREMENTS			Plan	P218319 182	I693866	LR0310200313	R 47342	PUBLIC PURPOSE - HOSPITAL	Hospital and Nurses' Quaters	2000.690000000000
	1115120	GOVT REQUIREMENTS		L	Plan	P218319 139	I693866	LR0310200271	R 47361		Y	1804.567000000000
	1115151	GOVT REQUIREMENTS			Location	P218315 144	I251070	LR0310200276	R 47365		Y	909.639000000000
	1115150	GOVT REQUIREMENTS			Plan	P218315 146	I251070	LR0310200278	R 47366		Y	825.502000000000
	1115158	GOVT REQUIREMENTS			Plan	P218315 143	I251070	LR0310200275	R 47364		Y	974.186000000000
	1115184				Crown Rese	P218313 126	I584705	LR0310200258	R 47354		Y	2239.617000000000
	1115190	GOVT REQUIREMENTS			Plan	P218313 125	I584705	LR0310200257	R 47353		Y	773.390000000000
	1115183	GOVT REQUIREMENTS			Location	P218313 104	I584705	LR0310200236	R 47345		0	857.761000000000
	1115182	id			Crown Rese	P218313 103	I584705	LR0310200235	R 47344		0	802.306000000000
	1115181	GOVT REQUIREMENTS			Plan	P218313 102	I584705	LR0310200234	R 47343		0	1265.379000000000
	1115109	GOVT REQUIREMENTS		L	Location	P218319 128	I118045	LR0312600663	R 47356			991.538000000000
	1115175	SUB STATION			Location	P218313 168	I584705	LR0310200300	R 47327			74.840000000000
	11218848	condition.			Crown Rese	P027316 336	I702117	LR0311800369	V CROWN LAND		1527.677	1233.926000000000
	1115100	RECREATION		L	Plan	P218319 175	I699078	LR0310200306	R 47326	PARKS AND RECREATION	Airforce Road.	1002.064000000000
	11299184					P042275 340	I921025	LR0313400762	R 44518			1139.086000000000
	11299224					P042276 351	I930414	LR0313300568	R 47722			15406.522000000000
	11444290					P044688 3003	J585935	LR0313600731	R 47378			81291.437000000000

LOCNO	PIN	LEGAL_AREA	USACENT	CENTLAT	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	DATE_RE	DATE_BOUND	PITYP	LOT_TYPE	RSV_VESTIN	RESERVE_US	LGA
0001	1115125	1065.000000000000	19	-12.19175492700	96.83211640900	22/09/1994	25/05/2009	KY		M	00000000	00000000	1	STPLN			
0001	1115125	1065.000000000000	19	-12.19175492700	96.83211640900	22/09/1994	25/05/2009	KY		M	00000000	00000000	1	STPLN			
0001	11444270	675.000000000000	1	-12.18505984300	96.82571572190	11/05/2005	8/02/2006	KY		M	00000000	2/02/2006	1	FHOLD			
0002	11444271	674.000000000000	1	-12.18495340790	96.82558460920	11/05/2005	8/02/2006	KY		M	00000000	2/02/2006	1	FHOLD			
0003	11444272	674.000000000000	1	-12.18486251000	96.82544686510	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0004	11444273	675.000000000000	1	-12.18477161300	96.82530912330	11/05/2005	8/02/2006	KY		M	00000000	2/02/2006	1	FHOLD			
0005	11444274	675.000000000000	1	-12.18468071640	96.82517138220	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0006	11444275	676.000000000000	1	-12.18458982000	96.82503364180	11/05/2005	8/02/2006	KY		M	00000000	2/02/2006	1	FHOLD			
0007	11444276	676.000000000000	1	-12.18449892520	96.824899590120	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0008	11444277	650.000000000000	1	-12.18441556710	96.82475192380	11/05/2005	8/02/2006	KY		M	00000000	2/02/2006	1	FHOLD			
0009	11444278	981.000000000000	1	-12.18430996290	96.82456523720	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0010	11444280	871.000000000000	1	-12.18401059050	96.82469060560	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0011	11444281	933.000000000000	1	-12.18388302650	96.82489480580	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0012	11444282	650.000000000000	1	-12.18402511170	96.82505744650	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0013	11444283	650.000000000000	1	-12.18412012810	96.82518746190	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0014	11444284	650.000000000000	1	-12.18420751720	96.82531963940	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0015	11444285	650.000000000000	1	-12.18429490620	96.82545181690	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0016	11444286	650.000000000000	1	-12.18438229520	96.82558399450	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0017	11444287	650.000000000000	1	-12.18446968440	96.82571617210	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0018	11444288	650.000000000000	1	-12.18455547690	96.82585190020	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
0100	1115206	60421.10200000000	1	-12.19502581500	96.84971866100	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115209	14242.74300000000	1	-12.19959765200	96.86598214800	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115215	83860.27700000000	1	-12.19691904600	96.83911392800	22/09/1994	13/09/2005	CO		M	00000000	18/01/2005	1	FHOLD			
0100	1115219	2224828.93000000000	1	-12.16299265800	96.82344486200	22/09/1994	13/09/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0100	1115220	219054.00000000000	1	-12.15339628600	96.81982085800	22/09/1994	13/09/2005	CO		M	00000000	24/06/1999	1	FHOLD			
0100	1115224	313.631000000000	1	-12.17359129400	96.82712617100	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115225	328.608000000000	1	-12.17368616700	96.82746519200	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115226	1380.285000000000	1	-12.17488433100	96.82815353800	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115207	3617.22300000000	1	-12.17553913200	96.83119503800	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115208	106.019000000000	1	-12.17630645400	96.83065878900	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115211	550797.00000000000	1	-12.20043650210	96.85584297220	22/09/1994	13/09/2005	CO		M	00000000	13/09/2005	1	FHOLD			
0100	1115214	13996.49700000000	1	-12.19834080400	96.83615303600	22/09/1994	13/09/2005	CO		M	00000000	18/01/2005	1	FHOLD			
0100	1115216	118040.27099999900	1	-12.18227674700	96.83061538100	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115217	406.919000000000	1	-12.17913177400	96.82800891100	22/09/1994	13/09/2005	CO		M	00000000	18/01/2005	1	FHOLD			
0100	1115221	334051.40000000000	1	-12.13681754300	96.82147241600	22/09/1994	13/09/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0100	1115227	289.021000000000	1	-12.17562062100	96.82721560900	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115228	1596.562000000000	1	-12.17616662600	96.82813287700	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115229	254.882000000000	1	-12.17028649600	96.82447647600	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115230	3975.755000000000	1	-12.17164575800	96.82428366600	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115231	560.588000000000	1	-12.16724254800	96.82506961300	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115232	9343.936000000000	1	-12.17028875600	96.82369463800	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115233	10578.93000000000	1	-12.17417305700	96.82280057400	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	11496255	292834.51100000000	1	-12.20235852460	96.85645852560	13/09/2005	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115207	3617.22300000000	1	-12.17553913200	96.83119503800	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115208	106.019000000000	1	-12.17630645400	96.83065878900	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115214	13996.49700000000	1	-12.19834080400	96.83615303600	22/09/1994	13/09/2005	CO		M	00000000	18/01/2005	1	FHOLD			
0100	1115216	118040.27099999900	1	-12.18227674700	96.83061538100	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115217	406.919000000000	1	-12.17913177400	96.82800891100	22/09/1994	13/09/2005	CO		M	00000000	18/01/2005	1	FHOLD			
0100	1115221	334051.40000000000	1	-12.13681754300	96.82147241600	22/09/1994	13/09/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0100	1115227	289.021000000000	1	-12.17562062100	96.82721560900	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115228	1596.562000000000	1	-12.17616662600	96.82813287700	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115229	254.882000000000	1	-12.17028649600	96.82447647600	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115230	3975.755000000000	1	-12.17164575800	96.82428366600	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115231	560.588000000000	1	-12.16724254800	96.82506961300	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115232	9343.936000000000	1	-12.17028875600	96.82369463800	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0100	1115233	10578.93000000000	1	-12.17417305700	96.82280057400	22/09/1994	13/09/2005	CO		M	00000000	00000000	1	FHOLD			
0101	1115591	1046972.84000000000	1	-12.07684556700	96.83965034400	29/09/1994	5/09/2003	CO	N	M	00000000	00000000	1	FHOLD			
0101	1115180	1454.000000000000	2	-12.19284736800	96.83181843600	22/09/1994	10/04/2002	KY	N	M	00000000	00000000	1	CROWN			
0101	1115180	1454.000000000000	2	-12.19284736800	96.83181843600	22/09/1994	10/04/2002	KY	N	M	00000000	00000000	1	CROWN			
0102	1115590	319638.26299999900	1	-12.08929395100	96.88469978100	29/09/1994	3/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0102	1115592	3975.517000000000	1	-12.09564637500	96.88683193300	29/09/1994	3/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0102	1115181	1266.000000000000	3	-12.19308748500	96.83204745300	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
0102	1115181	1266.000000000000	3	-12.19308748500	96.83204745300	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
0103	1115182	802.000000000000	3	-12.19332644700	96.83220558400	22/09/1994	9/10/2003	KY	N	M	00000000	00000000	3	RESVE		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0103	1115182	802.000000000000</															

LOCNO	PIN	LEGAL_AREA	USAC	CENTLAT	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	DATE_RE	DATE_BOUND	PITYP	LOT_TYPE	RSV_VESTIN	RESERVE_US	LGA
0104	1115602	1280.274000000000	1	-12.14176258500	96.91465377400	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115603	1193.175000000000	1	-12.14267808100	96.91528708000	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115604	222.895000000000	1	-12.14335247800	96.91565970500	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115605	194609.927000000000	1	-12.14748944100	96.91992402800	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115606	500.822000000000	1	-12.14811852200	96.91406812700	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115607	100090.190000000000	1	-12.15362920800	96.91746197500	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115608	113.679000000000	1	-12.15370920300	96.91484973600	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115609	20340.530000000000	1	-12.15554812400	96.91577908500	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115610	314.663000000000	1	-12.15353694800	96.91369826300	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115611	1886.810000000000	1	-12.15409373400	96.91579867100	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115612	829.754000000000	1	-12.15407637500	96.91521935200	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115613	1156.192000000000	1	-12.15869709100	96.91966291100	29/09/1994	5/09/2003	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115614	43064.269000000000	1	-12.15806278500	96.91823923500	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115615	2597.913000000000	1	-12.16032300700	96.91705342400	29/09/1994	5/09/2003	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115616	1352.848000000000	1	-12.16187532700	96.91496717100	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115617	452.215000000000	1	-12.16273579200	96.91818744600	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115618	2498.245000000000	1	-12.16294011500	96.91742998700	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115619	234.442000000000	1	-12.16339476400	96.91771110900	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115620	866.400000000000	1	-12.16359507000	96.91807185800	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115621	380.038000000000	1	-12.16402941300	96.91801213800	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115622	478.275000000000	1	-12.16391606900	96.91751077600	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115623	2877.287000000000	1	-12.16571318500	96.91663853600	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115624	2746.740000000000	1	-12.16491641500	96.91557703400	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115625	2005.963000000000	1	-12.16370091400	96.91523523000	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115626	962.227000000000	1	-12.16332195800	96.91607198200	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115627	707.685000000000	1	-12.16383851500	96.91719223200	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115628	967.837000000000	1	-12.16653516200	96.92007936100	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115629	308.942000000000	1	-12.16570900300	96.91977887900	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115630	321.819000000000	1	-12.16899761800	96.92113235500	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115631	963.674000000000	1	-12.16852222300	96.92106180100	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115632	878.624000000000	1	-12.16777096100	96.92029309500	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115633	286.095000000000	1	-12.16934340400	96.92104761900	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115634	248.967000000000	1	-12.17323707100	96.92266345400	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115635	126.273000000000	1	-12.17244640800	96.92252491300	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115636	256.641000000000	1	-12.17727974000	96.92588922900	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115637	503.448000000000	1	-12.18212295300	96.92300252500	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115638	690.649000000000	1	-12.18323666000	96.92475369300	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115639	226.424000000000	1	-12.18146251000	96.92292128800	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115640	406.760000000000	1	-12.18373253500	96.92285531800	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115641	863.084000000000	1	-12.18398491300	96.92253700900	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115642	5517.346000000000	1	-12.18294378100	96.92175974100	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115643	336.286000000000	1	-12.18473632000	96.92129769400	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115644	173.736000000000	1	-12.18436975400	96.92068868900	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115645	1996.747000000000	1	-12.18499920500	96.91847099500	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115646	146.115000000000	1	-12.18566795400	96.91988258800	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115647	1575.221000000000	1	-12.18506460400	96.92050288600	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115648	2970.365000000000	1	-12.18601730600	96.91951948200	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115649	5326.892000000000	1	-12.18853294300	96.92006081000	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115650	295.804000000000	1	-12.19778615900	96.91243889100	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115651	272.358000000000	1	-12.19798390300	96.91362935700	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115652	1659.900000000000	1	-12.19823864500	96.91417253400	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115653	336.755000000000	1	-12.19897473700	96.91445380200	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115654	2393.181000000000	1	-12.19744837900	96.91259467800	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115655	2593.058000000000	1	-12.19690216300	96.91120752500	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115656	1114.707000000000	1	-12.19719404100	96.91022492200	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115657	3250.685000000000	1	-12.19738201600	96.90939255500	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115658	351.381000000000	1	-12.19462765200	96.90523237700	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115659	2771.227000000000	1	-12.19527821500	96.90555959700	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115660	797.140000000000	1	-12.19588295000	96.90601538000	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115661	5997.035000000000	1	-12.19682057900	96.90768146200	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115662	577.207000000000	1	-12.19576800700	96.90358288900	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115663	7646.238000000000	1	-12.19666880800	96.90236794300	29/09/1994	4/03/2000	CO	N	O	00000000	00000000	1	FHOLD			
0104	1115664	432.298000000000	1	-12.19851618500	96.90206764100	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115665	87.054000000000	1	-12.19877082800	96.90209745300	29/09/1994	29/09/1994	CO	N	M	00000000	00000000	1	FHOLD			
0104	1115666	198.129000000000	1	-12.19889425200	96.90200502300	29/09/1994	29/09/1994	CO	N	M	00000000	00000000	1	FHOLD</			

LOCNO	PIN	LEGAL_AREA	USAC	CENTLAT	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	DATE_RE	DATE_BOUND	PITYP	LOT_TYPE	RSV_VESTIN	RESERVE_US	LGA	
0104	1115684	508.023000000000	1	-12.19649315000	96.88817192500	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD				
0104	1115685	485.272900000000	1	-12.19619377100	96.88845161200	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD				
0104	1115686	250.529000000000	1	-12.19649533900	96.88848612500	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD				
0104	1115687	216.177000000000	1	-12.19670969800	96.88809450400	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD				
0104	1115688	523.297000000000	1	-12.19535604500	96.88756943900	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD				
0104	1115689	590.213000000000	1	-12.19558634500	96.88742502800	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD				
0104	1115690	2254.807000000000	1	-12.19581883100	96.88782346100	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD				
0104	1115691	1660.685000000000	1	-12.19478463300	96.88703925400	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD				
0104	1115692	117.504000000000	1	-12.19679995600	96.88991332900	29/09/1994	4/03/2000	CO	N	M	00000000	00000000	1	FHOLD				
0104	1115693	3561443.13799999000	3	-12.20154555800	96.90876096400	29/09/1994	5/09/2003	CO	N	O	00000000	00000000	1	FHOLD				
0104	1115183	858.000000000000	1	-12.19352604600	96.83239386300	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE				
0104	1115183	858.000000000000	3	-12.19352604600	96.83239386300	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE				
0105	1115589	1265213.59400000000	1	-11.83229458200	96.82014187200	29/09/1994	5/09/2003	CO	N	M	00000000	00000000	1	FHOLD				
0105	1115191	1101.000000000000	2	-12.19328949100	96.83267031700	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	2	CROWN			
0105	1115191	1101.000000000000	2	-12.19328949100	96.83267031700	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	2	CROWN			
0106	1115192	1114.000000000000	2	-12.19303430500	96.83254099900	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN				
0106	1115192	1114.000000000000	2	-12.19303430500	96.83254099900	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN				
0107	1115193	1048.000000000000	2	-12.19277920600	96.83238813000	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	1	CROWN			
0107	1115193	1048.000000000000	2	-12.19277920600	96.83238813000	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	1	CROWN			
0108	1115178	950.000000000000	2	-12.19245087300	96.83211765100	22/09/1994	9/10/2003	KY		N	M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0108	1115178	950.000000000000	2	-12.19245087300	96.83211765100	22/09/1994	9/10/2003	KY		N	M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0108	1115178	950.000000000000	2	-12.19245087300	96.83211765100	22/09/1994	9/10/2003	KY		N	M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0109	1115177	901.000000000000	2	-12.19241781100	96.83184739800	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	2	CROWN			
0109	1115177	901.000000000000	2	-12.19241781100	96.83184739800	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	2	CROWN			
0110	1115127	1161.000000000000	2	-12.19220844700	96.83164890500	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN				
0110	1115127	1161.000000000000	2	-12.19220844700	96.83164890500	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN				
0111	1115131	1078.000000000000	3	-12.19196223700	96.83150715900	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND	
0111	1115131	1078.000000000000	3	-12.19196223700	96.83150715900	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND	
0112	1115130	1042.000000000000	2	-12.19174586800	96.83135849500	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	2	CROWN			
0112	1115130	1042.000000000000	2	-12.19174586800	96.83135849500	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	2	CROWN			
0113	1115129	1024.000000000000	2	-12.19153347200	96.83121256200	22/09/1994	10/04/2002	KY		N	M	00000000	00000000	2	CROWN			
0113	1115129	1024.000000000000	2	-12.19153347200	96.83121256200	22/09/1994	10/04/2002	KY		N	M	00000000	00000000	2	CROWN			
0114	1115128	1018.000000000000	2	-12.19132276100	96.83106558700	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	2	CROWN			
0114	1115128	1018.000000000000	2	-12.19132276100	96.83106558700	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	2	CROWN			
0114	1115128	1018.000000000000	2	-12.19132276100	96.83106558700	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	2	CROWN			
0115	1115116	892.000000000000	2	-12.19111780600	96.83090201400	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	1	CROWN			
0115	1115116	892.000000000000	2	-12.19111780600	96.83090201400	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	1	CROWN			
0116	1115115	874.000000000000	2	-12.19090514500	96.83075589600	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	2	CROWN			
0116	1115115	874.000000000000	2	-12.19090514500	96.83075589600	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	2	CROWN			
0116	1115115	874.000000000000	2	-12.19090514500	96.83075589600	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	2	CROWN			
0117	1115114	877.000000000000	2	-12.19069245600	96.83060975800	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN				
0117	1115114	877.000000000000	2	-12.19069245600	96.83060975800	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN				
0118	1115113	852.000000000000	2	-12.19048054000	96.83046415400	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	2	CROWN			
0118	1115113	852.000000000000	2	-12.19048054000	96.83046415400	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	2	CROWN			
0119	1115112	864.000000000000	3	-12.19026826500	96.83031830200	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	3	RESVE			
0119	1115112	864.000000000000	3	-12.19026826500	96.83031830200	22/09/1994	7/01/2004	KY		N	M	00000000	00000000	3	RESVE			
0120	1115111	798.000000000000	2	-12.19006040200	96.83017635200	22/09/1994	10/04/2002	KY		N	M	00000000	00000000	1	CROWN			
0120	1115111	798.000000000000	2	-12.19006040200	96.83017635200	22/09/1994	10/04/2002	KY		N	M	00000000	00000000	1	CROWN			
0121	1115121	918.000000000000	2	-12.19120645200	96.83179999200	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	1	CROWN			
0121	1115121	918.000000000000	2	-12.19120645200	96.83179999200	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	1	CROWN			
0122	1115122	938.000000000000	2	-12.19144453700	96.83194515900	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN				
0122	1115122	938.000000000000	2	-12.19144453700	96.83194515900	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN				
0123	1115125	1065.000000000000	19	-12.19175492700	96.83211640900	22/09/1994	25/05/2009	KY		M	00000000	00000000	1	STPLN				
0124	1115126	966.000000000000	2	-12.19198303000	96.83227082600	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	2	CROWN			
0124	1115126	966.000000000000	2	-12.19198303000	96.83227082600	22/09/1994	31/12/1996	KY		N	M	00000000	00000000	2	CROWN			
0125	1115190	773.000000000000	3	-12.19347528300	96.83278221200	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE				
0125	1115190	773.000000000000	3	-12.19347528300	96.83278221200	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE				
0126	1115184	2240.000000000000	3	-12.19373968100	96.83279583100	22/09/1994	9/10/2003	KY		N	M	00000000	00000000	3	RESVE		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0126	1115184	2240.000000000000	3	-12.19373968100	96.83279583100	22/09/1994	9/10/2003	KY		N	M	00000000	00000000	3	RESVE		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0127	1115185	1265.000000000000	2	-12.19265019100	96.83266081800	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN				
0127	1115185	1265.000000000000	2	-12.19265019100	96.83266081800	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN				
0127	1115185	1265.000000000000	2	-12.19265019100	96.83266081800	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN				
0128	1115109	991.000000000000	3	-12.18998899500	96.83105072300	22/09/1994	6/06/2002	KY		N	M	00000000	00000000	3	RESVE			
0128	1115109	991.000000000000	3	-12.18998899500	96.83105072300	22/09/1994	6/06/2002	KY										

LOCNO	PIN	LEGAL_AREA	USAC	CENTLAT	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	DATE_RE	DATE_BOUND	PITYP	LOT_TYPE	RSV_VESTIN	RESERVE_US	LGA
0137	1115124	1007.000000000000	2	-12.19188882600	96.83190434400	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN			
0137	1115124	1007.000000000000	2	-12.19188882600	96.83190434400	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN			
0138	1115123	1144.000000000000	2	-12.19170109300	96.83176952000	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0138	1115123	1144.000000000000	2	-12.19170109300	96.83176952000	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0138	1115123	1144.000000000000	2	-12.19170109300	96.83176952000	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0139	1115120	1805.000000000000	3	-12.19141714100	96.83158222500	22/09/1994	8/01/2004	KY	N	M	00000000	00000000	3	RESVE			
0139	1115120	1805.000000000000	3	-12.19141714100	96.83158222500	22/09/1994	8/01/2004	KY	N	M	00000000	00000000	3	RESVE			
0140	1115119	1262.000000000000	2	-12.19116651400	96.83141844600	22/09/1994	8/01/2004	KY	N	M	00000000	00000000	2	CROWN			
0140	1115119	1262.000000000000	2	-12.19116651400	96.83141844600	22/09/1994	8/01/2004	KY	N	M	00000000	00000000	2	CROWN			
0140	1115119	1262.000000000000	2	-12.19116651400	96.83141844600	22/09/1994	8/01/2004	KY	N	M	00000000	00000000	2	CROWN			
0141	1115106	1044.000000000000	2	-12.18973423300	96.83022387500	22/09/1994	18/03/2004	KY	N	M	00000000	18/03/2004	2	CROWN			
0141	1115106	1044.000000000000	2	-12.18973423300	96.83022387500	22/09/1994	18/03/2004	KY	N	M	00000000	18/03/2004	2	CROWN			
0141	1115106	1044.000000000000	2	-12.18973423300	96.83022387500	22/09/1994	18/03/2004	KY	N	M	00000000	18/03/2004	2	CROWN			
0142	1115152	955.000000000000	2	-12.18584061800	96.82639868800	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0142	1115152	955.000000000000	2	-12.18584061800	96.82639868800	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0143	1115158	974.000000000000	3	-12.18621689900	96.82623316700	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
0143	1115158	974.000000000000	3	-12.18621689900	96.82623316700	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
0144	1115151	910.000000000000	3	-12.18566694400	96.82613576800	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
0144	1115151	910.000000000000	3	-12.18566694400	96.82613576800	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
0145	1115159	961.000000000000	2	-12.18606585200	96.82600430900	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0145	1115159	961.000000000000	2	-12.18606585200	96.82600430900	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0146	1115150	825.000000000000	3	-12.18550134200	96.82589264300	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
0146	1115150	825.000000000000	3	-12.18550134200	96.82589264300	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
0147	1115161	971.000000000000	2	-12.18588690570	96.82573691720	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0147	1115161	971.000000000000	2	-12.18588690570	96.82573691720	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0147	1115161	971.000000000000	2	-12.18588690570	96.82573691720	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0148	1115135	779.000000000000	2	-12.18527146400	96.82553973300	22/09/1994	8/02/2006	KY		M	00000000	2/02/2006	2	CROWN			
0148	1115135	779.000000000000	2	-12.18527146400	96.82553973300	22/09/1994	8/02/2006	KY		M	00000000	2/02/2006	2	CROWN			
0149	1115162	896.000000000000	2	-12.18574326540	96.82551205900	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0149	1115162	896.000000000000	2	-12.18574326540	96.82551205900	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0150	1115134	1000.000000000000	2	-12.18510570700	96.82528613400	22/09/1994	8/02/2006	KY		M	00000000	2/02/2006	2	CROWN			
0150	1115134	1000.000000000000	2	-12.18510570700	96.82528613400	22/09/1994	8/02/2006	KY		M	00000000	2/02/2006	2	CROWN			
0150	1115134	1000.000000000000	2	-12.18510570700	96.82528613400	22/09/1994	8/02/2006	KY		M	00000000	2/02/2006	2	CROWN			
0151	1115163	946.000000000000	2	-12.18559523440	96.82529369190	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0151	1115163	946.000000000000	2	-12.18559523440	96.82529369190	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0151	1115163	946.000000000000	2	-12.18559523440	96.82529369190	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0152	1115133	905.000000000000	2	-12.18492688900	96.82501526700	22/09/1994	8/02/2006	KY		M	00000000	2/02/2006	1	CROWN			
0152	1115133	905.000000000000	2	-12.18492688900	96.82501526700	22/09/1994	8/02/2006	KY		M	00000000	2/02/2006	1	CROWN			
0153	1115164	1069.000000000000	2	-12.18543349480	96.82505389730	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0153	1115164	1069.000000000000	2	-12.18543349480	96.82505389730	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0153	1115164	1069.000000000000	2	-12.18543349480	96.82505389730	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0154	1115132	799.000000000000	2	-12.18476611900	96.82477285700	22/09/1994	8/02/2006	KY		M	00000000	2/02/2006	1	CROWN			
0154	1115132	799.000000000000	2	-12.18476611900	96.82477285700	22/09/1994	8/02/2006	KY		M	00000000	2/02/2006	1	CROWN			
0155	1115165	1046.000000000000	2	-12.18526545750	96.82479915980	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0155	1115165	1046.000000000000	2	-12.18526545750	96.82479915980	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0155	1115165	1046.000000000000	2	-12.18526545750	96.82479915980	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0156	1115153	1234.000000000000	2	-12.18601195600	96.82672327700	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0156	1115153	1234.000000000000	2	-12.18601195600	96.82672327700	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0156	1115153	1234.000000000000	2	-12.18601195600	96.82672327700	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0157	1115166	940.000000000000	2	-12.18510395340	96.82456134730	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0157	1115166	940.000000000000	2	-12.18510395340	96.82456134730	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0158	1115154	1183.000000000000	2	-12.18618101200	96.82698322400	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0158	1115154	1183.000000000000	2	-12.18618101200	96.82698322400	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0159	1115170	819.000000000000	2	-12.18664135400	96.82690159400	22/09/1994	8/02/2006	KY		M	00000000	6/01/2005	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0159	1115170	819.000000000000	2	-12.18664135400	96.82690159400	22/09/1994	8/02/2006	KY		M	00000000	6/01/2005	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0159	1115170	819.000000000000	2	-12.18664135400	96.82690159400	22/09/1994	8/02/2006	KY		M	00000000	6/01/2005	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0160	1115107	1400.000000000000	2	-12.18948146400	96.83069607100	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN		POLICE	SHIRE OF COCOS KEELING ISLAND
0160	1115107	1400.000000000000	2	-12.18948146400	96.83069607100	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN		POLICE	SHIRE OF COCOS KEELING ISLAND
0160	1115107	1400.000000000000	2	-12.18948146400	96.83069607100	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN		POLICE	SHIRE OF COCOS KEELING ISLAND
0161	1115169	889.000000000000	2	-12.18674996100	96.82713172900	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0161	1115169	889.000000000000	2	-12.18674996100	96.82713172900	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0162	1115188	808.000000000000	2	-12.19344846100	96.83314005500	22/09/1994	31/12/1996	KY	N	M	00000000	00000000	2	CROWN			
0162	1115188	808.000000000000	2	-12.19344846100	96.83314005500	22/09/1994	31/12/1996	KY	N	M	00000000	00000000	2	CROWN			
0163	1115168	1174.000000000000	2	-12.18685245900	96.82736915100	22/09/1994	8/02/2006	KY</									

LOCNO	PIN	LEGAL_AREA	USAC	CENTLAT	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	DATE_RE	DATE_BOUND	PITYP	LOT_TYPE	RSV_VESTIN	RESERVE_US	LGA
0173	1115103	1533.000000000000	2	-12.18897282000	96.82971102300	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN			
0173	1115103	1533.000000000000	2	-12.18897282000	96.82971102300	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN			
0174	1115102	1758.000000000000	2	-12.18879409900	96.83001857800	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN			
0174	1115102	1758.000000000000	2	-12.18879409900	96.83001857800	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN			
0175	1115100	1002.000000000000	3	-12.18868653800	96.83030642800	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
0175	1115100	1002.000000000000	3	-12.18868653800	96.83030642800	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
0176	1115101	130.000000000000	2	-12.18888548490	96.83039641240	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN			
0176	1115101	130.000000000000	2	-12.18888548490	96.83039641240	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN			
0176	1115101	130.000000000000	2	-12.18888548490	96.83039641240	22/09/1994	27/01/2005	KY		M	00000000	00000000	1	CROWN			
0178	1115095	1222.000000000000	2	-12.18797461100	96.82891295100	22/09/1994	27/01/2005	KY		M	00000000	18/01/2005	1	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0178	1115095	1222.000000000000	2	-12.18797461100	96.82891295100	22/09/1994	27/01/2005	KY		M	00000000	18/01/2005	1	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0178	1115095	1222.000000000000	2	-12.18797461100	96.82891295100	22/09/1994	27/01/2005	KY		M	00000000	18/01/2005	1	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0179	1115089	9209.000000000000	3	-12.18721829500	96.82857298200	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
0179	1115089	9209.000000000000	3	-12.18721829500	96.82857298200	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
0180	1115090	9383.000000000000	2	-12.18773688400	96.82807732000	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN			
0180	1115090	9383.000000000000	2	-12.18773688400	96.82807732000	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN			
0181	1115094	726.000000000000	2	-12.18884788100	96.82905876500	22/09/1994	1/02/2007	KY		M	00000000	1/02/2007	2	CROWN			
0181	1115094	726.000000000000	2	-12.18884788100	96.82905876500	22/09/1994	1/02/2007	KY		M	00000000	1/02/2007	2	CROWN			
0182	1115098	2001.000000000000	3	-12.18916435100	96.82916566400	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
0182	1115098	2001.000000000000	3	-12.18916435100	96.82916566400	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
0184	1115082	15168.000000000000	2	-12.18566324600	96.82752328900	22/09/1994	27/01/2005	KY		M	00000000	14/05/1997	2	CROWN		GOVERNMENT REQUIREMENTS-FEDERA	SHIRE OF CHRISTMAS ISLAND
0184	1115082	15168.000000000000	2	-12.18566324600	96.82752328900	22/09/1994	27/01/2005	KY		M	00000000	14/05/1997	2	CROWN		GOVERNMENT REQUIREMENTS-FEDERA	SHIRE OF CHRISTMAS ISLAND
0184	1115082	15168.000000000000	2	-12.18566324600	96.82752328900	22/09/1994	27/01/2005	KY		M	00000000	14/05/1997	2	CROWN		GOVERNMENT REQUIREMENTS-FEDERA	SHIRE OF CHRISTMAS ISLAND
0187	1115088	1137.000000000000	2	-12.18638980100	96.82824958900	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0187	1115088	1137.000000000000	2	-12.18638980100	96.82824958900	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0187	1115088	1137.000000000000	2	-12.18638980100	96.82824958900	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0188	1115087	522.000000000000	3	-12.18649729700	96.82806543600	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
0188	1115087	522.000000000000	3	-12.18649729700	96.82806543600	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
0189	1115086	569.000000000000	2	-12.18656846400	96.82794488600	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0189	1115086	569.000000000000	2	-12.18656846400	96.82794488600	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0189	1115086	569.000000000000	2	-12.18656846400	96.82794488600	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
0190	1115085	705.000000000000	2	-12.18664877700	96.82780170500	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0190	1115085	705.000000000000	2	-12.18664877700	96.82780170500	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0191	1115118	1049.000000000000	2	-12.19089895200	96.83161030900	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN			
0191	1115118	1049.000000000000	2	-12.19089895200	96.83161030900	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN			
0192	1115179	1219.000000000000	2	-12.19224051400	96.83239651400	22/09/1994	31/12/1996	KY	N	M	00000000	00000000	2	CROWN			
0192	1115179	1219.000000000000	2	-12.19224051400	96.83239651400	22/09/1994	31/12/1996	KY	N	M	00000000	00000000	2	CROWN			
0197	1115160	165.000000000000	2	-12.18597669670	96.82587131270	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0197	1115160	165.000000000000	2	-12.18597669670	96.82587131270	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0197	1115160	165.000000000000	2	-12.18597669670	96.82587131270	22/09/1994	8/02/2006	KY		M	00000000	00000000	2	CROWN			
0198	1115167	126.000000000000	3	-12.18502099530	96.82443038110	22/09/1994	8/02/2006	KY		M	00000000	17/09/2004	3	RESVE	COCOS KEELING ISLANDS SHIRE	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND
0198	1115167	126.000000000000	3	-12.18502099530	96.82443038110	22/09/1994	8/02/2006	KY		M	00000000	17/09/2004	3	RESVE	COCOS KEELING ISLANDS SHIRE	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND
0199	1115091	100.000000000000	2	-12.18835327980	96.82868943210	22/09/1994	1/02/2007	KY		M	00000000	1/02/2007	2	CROWN	COCOS KEELING ISLANDS SHIRE	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND
0199	1115091	100.000000000000	2	-12.18835327980	96.82868943210	22/09/1994	1/02/2007	KY		M	00000000	1/02/2007	2	CROWN	COCOS KEELING ISLANDS SHIRE	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND
0199	1115091	100.000000000000	2	-12.18835327980	96.82868943210	22/09/1994	1/02/2007	KY		M	00000000	1/02/2007	2	CROWN	COCOS KEELING ISLANDS SHIRE	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND
0202	1115062	112108.000000000000	2	-12.14532863200	96.81864105100	22/09/1994	14/01/2009	KY	N	M	00000000	00000000	2	CROWN			
0202	1115062	112108.000000000000	2	-12.14532863200	96.81864105100	22/09/1994	14/01/2009	KY	N	M	00000000	00000000	2	CROWN			
0206	1115063	32022.000000000000	2	-12.14342673100	96.81893051700	22/09/1994	14/01/2009	KY	N	M	00000000	00000000	2	CROWN			
0206	1115063	32022.000000000000	2	-12.14342673100	96.81893051700	22/09/1994	14/01/2009	KY	N	M	00000000	00000000	2	CROWN			
0207	1115061	24285.000000000000	2	-12.14760692500	96.81905079200	22/09/1994	14/01/2009	KY	N	M	00000000	00000000	1	CROWN			
0207	1115061	24285.000000000000	2	-12.14760692500	96.81905079200	22/09/1994	14/01/2009	KY	N	M	00000000	00000000	1	CROWN			
0209	1115059	41198.000000000000	3	-12.18786279710	96.83397475970	22/09/1994	18/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
0209	1115059	41198.000000000000	3	-12.18786279710	96.83397475970	22/09/1994	18/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
0221	1115099	15.000000000000	3	-12.19042694600	96.83006330170	22/09/1994	18/01/2005	KY		M	00000000	00000000	3	RESVE			
0221	1115099	15.000000000000	3	-12.19042694600	96.83006330170	22/09/1994	18/01/2005	KY		M	00000000	00000000	3	RESVE			
0222	1115197	39.000000000000	2	-12.18836367400	96.82820509300	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN	COMMONWEALTH OF AUSTRALIA	MEMORIAL	SHIRE OF COCOS KEELING ISLAND
0222	1115197	39.000000000000	2	-12.18836367400	96.82820509300	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN	COMMONWEALTH OF AUSTRALIA	MEMORIAL	SHIRE OF COCOS KEELING ISLAND
0222	1115197	39.000000000000	2	-12.18836367400	96.82820509300	22/09/1994	27/01/2005	KY		M	00000000	00000000	2	CROWN	COMMONWEALTH OF AUSTRALIA	MEMORIAL	SHIRE OF COCOS KEELING ISLAND
0313	1115148	35.000000000000	2	-12.18503775800	96.82599229500	22/09/1994	8/02/2006	KY		M	00000000	24/06/1997	1	CROWN			
0313	1115148	35.000000000000	2	-12.18503775800	96.82599229500	22/09/1994	8/02/2006	KY		M	00000000	24/06/1997	1	CROWN			
0313	1115148	35.000000000000	2	-12.18503775800	96.82599229500	22/09/1994	8/02/2006	KY		M	00000000	24/06/1997	1	CROWN			
0315	1115149	1023.000000000000	2	-12.18534276700	96.82605808900	22/09/1994	8/02/2006	KY		M	00000000	00000000	1	CROWN			
0315	1115149	1023.000000000000	2	-12.18534276700	96.82605808900	22/09/1994	8/02/2006	KY		M							

LOCNO	PIN	LEGAL_AREA	USAC	CENTLAT	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	DATE_RE	DATE_BOUND	PITYP	LOT_TYPE	RSV_VESTIN	RESERVE_US	LGA
0331	1303141	49875.000000000000	2	-12.168140990000	96.85037986100	13/10/1999	28/09/2000	AN	N	M	00000000	29/09/2000	1	CROWN			
0331	1303141	49875.000000000000	2	-12.168140990000	96.85037986100	13/10/1999	28/09/2000	AN	N	M	00000000	29/09/2000	1	CROWN			
0331	1303141	49875.000000000000	2	-12.168140990000	96.85037986100	13/10/1999	28/09/2000	AN	N	M	00000000	29/09/2000	1	CROWN			
0332	1303140	50000.000000000000	2	-12.18622092300	96.85525546500	13/10/1999	28/09/2000	AN	N	M	00000000	29/09/2000	1	CROWN			
0332	1303140	50000.000000000000	2	-12.18622092300	96.85525546500	13/10/1999	28/09/2000	AN	N	M	00000000	29/09/2000	1	CROWN			
0332	1303140	50000.000000000000	2	-12.18622092300	96.85525546500	13/10/1999	28/09/2000	AN	N	M	00000000	29/09/2000	1	CROWN			
0333	11256183	90.000000000000	2	-12.13837926000	96.82233786000	17/02/2004	18/01/2005	KY		M	00000000	18/01/2005	2	CROWN			
0333	11256183	90.000000000000	2	-12.13837926000	96.82233786000	17/02/2004	18/01/2005	KY		M	00000000	18/01/2005	2	CROWN			
0333	11256183	90.000000000000	2	-12.13837926000	96.82233786000	17/02/2004	18/01/2005	KY		M	00000000	18/01/2005	2	CROWN			
0334	11256184	7351.000000000000	2	-12.13796472700	96.82358241610	17/02/2004	18/01/2005	KY		M	00000000	18/01/2005	1	CROWN			
0334	11256184	7351.000000000000	2	-12.13796472700	96.82358241610	17/02/2004	18/01/2005	KY		M	00000000	18/01/2005	1	CROWN			
0334	11256184	7351.000000000000	2	-12.13796472700	96.82358241610	17/02/2004	18/01/2005	KY		M	00000000	18/01/2005	1	CROWN			
0335	11299225	12311.000000000000	1	-12.13752347890	96.82333978000	1/06/2004	18/01/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0335	11299225	12311.000000000000	1	-12.13752347890	96.82333978000	1/06/2004	18/01/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0336	11218848	1235.000000000000	6	-12.18948962650	96.82977948120	7/11/2003	18/03/2004	KY		M	00000000	18/03/2004	3	OTHER		MUSEUM	SHIRE OF CHRISTMAS ISLAND
0336	11218848	1235.000000000000	6	-12.18948962650	96.82977948120	7/11/2003	18/03/2004	KY		M	00000000	18/03/2004	3	OTHER		MUSEUM	SHIRE OF CHRISTMAS ISLAND
0337	11218847	1082.000000000000	2	-12.18978370000	96.82998588000	7/11/2003	18/03/2004	KY		M	00000000	18/03/2004	1	CROWN			
0337	11218847	1082.000000000000	2	-12.18978370000	96.82998588000	7/11/2003	18/03/2004	KY		M	00000000	18/03/2004	1	CROWN			
0337	11218847	1082.000000000000	2	-12.18978370000	96.82998588000	7/11/2003	18/03/2004	KY		M	00000000	18/03/2004	1	CROWN			
0338	1365196	6736.000000000000	2	-12.12133130800	96.89378516200	3/07/2001	22/08/2002	AN	Y	M	00000000	22/08/2002	1	CROWN			
0338	1365196	6736.000000000000	2	-12.12133130800	96.89378516200	3/07/2001	22/08/2002	AN	Y	M	00000000	22/08/2002	1	CROWN			
0338	1365196	6736.000000000000	2	-12.12133130800	96.89378516200	3/07/2001	22/08/2002	AN	Y	M	00000000	22/08/2002	1	CROWN			
0339	1365195	22565.000000000000	2	-12.12041791100	96.89520775600	3/07/2001	14/10/2003	AN	N	M	00000000	22/08/2002	2	CROWN		GARDENS	SHIRE OF COCOS KEELING ISLAND
0339	1365195	22565.000000000000	2	-12.12041791100	96.89520775600	3/07/2001	14/10/2003	AN	N	M	00000000	22/08/2002	2	CROWN		GARDENS	SHIRE OF COCOS KEELING ISLAND
0339	1365195	22565.000000000000	2	-12.12041791100	96.89520775600	3/07/2001	14/10/2003	AN	N	M	00000000	22/08/2002	2	CROWN		GARDENS	SHIRE OF COCOS KEELING ISLAND
0340	11299184	1139.000000000000	3	-12.18654440540	96.82666761530	1/06/2004	8/02/2006	KY		M	00000000	6/01/2005	3	RESVE			
0341	11299159	985509.000000000000	1	-12.19163946330	96.83403724330	1/06/2004	25/05/2009	KY		M	00000000	25/05/2009	1	FHOLD			
0341	11299159	985509.000000000000	1	-12.19163946330	96.83403724330	1/06/2004	25/05/2009	KY		M	00000000	25/05/2009	1	FHOLD			
0342	11299160	82462.000000000000	3	-12.20567732000	96.84317866000	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
0343	11299155	1920.000000000000	3	-12.18458756320	96.82771114090	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
0344	11299154	3340.000000000000	3	-12.18501273990	96.82799666090	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
0345	11299151	4128.000000000000	3	-12.18564368160	96.82837624160	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
0346	11299152	42.000000000000	1	-12.18599221070	96.82838803530	1/06/2004	27/01/2005	KY		M	00000000	00000000	1	FHOLD			
0346	11299152	42.000000000000	1	-12.18599221070	96.82838803530	1/06/2004	27/01/2005	KY		M	00000000	00000000	1	FHOLD			
0347	11299153	1632.000000000000	1	-12.18612776820	96.82867762300	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0347	11299153	1632.000000000000	1	-12.18612776820	96.82867762300	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0348	11299157	1268.000000000000	3	-12.18821952600	96.82920098130	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
0349	11299158	2458.000000000000	1	-12.18847682670	96.82944908020	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0349	11299158	2458.000000000000	1	-12.18847682670	96.82944908020	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0350	11299156	2025.000000000000	1	-12.18819988170	96.82989815430	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0350	11299156	2025.000000000000	1	-12.18819988170	96.82989815430	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	1	FHOLD			
0351	11299224	15365.000000000000	3	-12.13733869680	96.82242075910	1/06/2004	18/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
0600	11607568	1517.000000000000	1	-12.18856945440	96.82886050640	13/10/2006	1/02/2007	KY		M	00000000	1/02/2007	1	FHOLD			
1000	1365197	12612.000000000000	1	-12.12063611000	96.89431586100	3/07/2001	22/08/2002	AN	N	M	00000000	22/08/2002	1	FHOLD			
1001	1365194	6871.000000000000	1	-12.11951194300	96.89430866500	3/07/2001	22/08/2002	AN	N	M	00000000	22/08/2002	1	FHOLD			
1106	1113721	844512.410000000000	1	-12.11703578900	96.89943384500	12/09/1994	25/09/2003	KY		M	00000000	25/09/2003	1	FHOLD			
1106	1113721	844512.410000000000	1	-12.11703578900	96.89943384500	12/09/1994	25/09/2003	KY		M	00000000	25/09/2003	1	FHOLD			
1107	11016564	2000.000000000000	1	-12.11829679220	96.89370699280	13/05/2002	12/08/2003	KY		M	00000000	12/08/2003	1	FHOLD			
1108	1113731	1080.526000000000	1	-12.10363772800	96.88706862000	12/09/1994	12/08/2003	CO		M	00000000	00000000	1	FHOLD			
1108	1113731	1080.526000000000	1	-12.10363772800	96.88706862000	12/09/1994	12/08/2003	CO		M	00000000	00000000	1	FHOLD			
1109	1113730	536.894000000000	1	-12.10590363600	96.88808860000	12/09/1994	12/08/2003	CO		M	00000000	00000000	1	FHOLD			
1109	1113730	536.894000000000	1	-12.10590363600	96.88808860000	12/09/1994	12/08/2003	CO		M	00000000	00000000	1	FHOLD			
3003	11444290	81230.000000000000	3	-12.18365739970	96.82424531220	11/05/2005	27/07/2007	KY		M	00000000	27/07/2007	3	RESVE			
3004	11444293	624.000000000000	1	-12.18483322690	96.82607378770	11/05/2005	8/02/2006	KY		M	00000000	2/02/2006	1	FHOLD			
3005	11444289	835.000000000000	1	-12.18455767550	96.82633623860	11/05/2005	8/02/2006	KY		M	00000000	2/02/2006	1	FHOLD			
3006	11444279	136.000000000000	1	-12.18416685820	96.82462096230	11/05/2005	8/02/2006	KY		M	00000000	00000000	1	FHOLD			
	11203780					00000000	00000000										
	11203781	48541.000000000000	13	-12.20546136000	96.84524998000	24/09/2003	3/11/2005	KY		M	00000000	13/09/2005	3	ROAD			
	1115059	41198.000000000000	3	-12.18786279710	96.83397475970	22/09/1994	18/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
	11299160	82462.000000000000	3	-12.20567732000	96.84317866000	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
	1115167	126.000000000000	3	-12.18502099530	96.82443038110	22/09/1994	8/02/2006	KY		M	00000000	17/09/2004	3	RESVE	COCOS KEELING ISLANDS SHIRE	PEDESTRIAN ACCESS WAY	SHIRE OF COCOS KEELING ISLAND
	11299155	1920.000000000000	3	-12.18458756320	96.82771114090	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
	11299151	4128.000000000000	3	-12.18564368160	96.82837624160	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
	11299154	3340.000000000000	3	-12.18501273990	96.82799666090	1/06/2004	27/01/2005	KY		M	00000000	18/01/2005	3	RESVE</			

LOCNO	PIN	LEGAL_AREA	USAC	CENTLAT	CENTLONG	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	DATE_RE	DATE_BOUND	PITYP	LOT_TYPE	RSV_VESTIN	RESERVE_US	LGA
	1115098	2001.000000000000	3	-12.18916435100	96.82916566400	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
	1115120	1805.000000000000	3	-12.19141714100	96.83158222500	22/09/1994	8/01/2004	KY	N	M	00000000	00000000	3	RESVE			
	1115151	910.000000000000	3	-12.18566694400	96.82613576800	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
	1115150	825.000000000000	3	-12.18550134200	96.82589264300	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
	1115158	974.000000000000	3	-12.18621689900	96.82623316700	22/09/1994	8/02/2006	KY		M	00000000	00000000	3	RESVE			
	1115184	2240.000000000000	3	-12.19373968100	96.83279583100	22/09/1994	9/10/2003	KY	N	M	00000000	00000000	3	RESVE		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
	1115190	773.000000000000	3	-12.19347528300	96.83278221200	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
	1115183	858.000000000000	3	-12.19352604600	96.83239386300	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
	1115182	802.000000000000	3	-12.19332644700	96.83220558400	22/09/1994	9/10/2003	KY	N	M	00000000	00000000	3	RESVE		GOVERNMENT REQUIREMENTS	SHIRE OF COCOS KEELING ISLAND
	1115181	1266.000000000000	3	-12.19308748500	96.83204745300	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
	1115109	991.000000000000	3	-12.18998899500	96.83105072300	22/09/1994	6/06/2002	KY	N	M	00000000	00000000	3	RESVE			
	1115175	75.000000000000	3	-12.19207930500	96.83209640900	22/09/1994	9/10/2003	KY	N	M	00000000	00000000	3	RESVE			
	11218848	1235.000000000000	6	-12.18948962650	96.82977948120	7/11/2003	18/03/2004	KY		M	00000000	18/03/2004	3	OTHER		MUSEUM	SHIRE OF CHRISTMAS ISLAND
	1115100	1002.000000000000	3	-12.18868653800	96.83030642800	22/09/1994	27/01/2005	KY		M	00000000	00000000	3	RESVE			
	11299184	1139.000000000000	3	-12.18654440540	96.82666761530	1/06/2004	8/02/2006	KY		M	00000000	6/01/2005	3	RESVE			
	11299224	15365.000000000000	3	-12.13733869680	96.82242075910	1/06/2004	18/01/2005	KY		M	00000000	18/01/2005	3	RESVE			
	11444290	81230.000000000000	3	-12.18365739970	96.82424531220	11/05/2005	27/07/2007	KY		M	00000000	27/07/2007	3	RESVE			

LOCNO	PIN	OWNER	MANAGEMENT	MGR_NAME	SALEDATE	SALEDAT	PURCHASEPR	LOCATION	GPRPFX	GPRSFX	REGION	POSTCODE	RENDER	NORAIN	N NOFROM	NOTO	NOFROMSFX	
0001	1115125	MIRIA PTY LTD			19990616	20030820	0000000000	WEST ISLAND COCOS (KEELI	Z			6799	19		1187926	L	123	0
0001	1115125	MIRIA PTY LTD			19990616	20030820	0000000000	WEST ISLAND COCOS (KEELI	Z			6799	19		1187926	L	123	0
0001	11444270	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELI			R	6799	1		10566157	H	5	0
0002	11444271	LENG, CHEW LAI			20040319	20040319	0000080000	WEST ISLAND COCOS (KEELI			R	6799	1		10566168	H	9	0
0003	11444272	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELI			R	6799	1		10566171	H	11	0
0004	11444273	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELI			R	6799	1		10566173	H	13	0
0005	11444274	EVANS, NEIL DAVID			20080614	20040319	0000260000	WEST ISLAND COCOS (KEELI			R	6799	1		10566174	H	15	0
0006	11444275	MARSHALL, DONNA CLAIRE			20060929	20060929	0000115000	WEST ISLAND COCOS (KEELI			R	6799	1		10566175	H	17	0
0007	11444276	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELI			R	6799	1		10566176	H	19	0
0008	11444277	MENON, SREE GOVIND			20040319	20040319	0000080000	WEST ISLAND COCOS (KEELI			R	6799	1		10566177	H	21	0
0009	11444278	MCCONNELL, PAUL GORDON			20071219	20050915	0000000000	WEST ISLAND COCOS (KEELI			R	6799	1		10566178	H	23	0
0010	11444280	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELI			R	6799	1		10566158	H	25	0
0011	11444281	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELI			R	6799	1		10566159	H	27	0
0012	11444282	MOHINDRA, RAKESH			20040712	20040712	0000080000	WEST ISLAND COCOS (KEELI			R	6799	1		10566160	H	29	0
0013	11444283	MOHINDRA, RAKESH			20040712	20040712	0000080000	WEST ISLAND COCOS (KEELI			R	6799	1		10566161	H	31	0
0014	11444284	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELI			R	6799	1		10566162	H	33	0
0015	11444285	CHARLSTON, SHANE HUON			20060828	20060828	0000160000	WEST ISLAND COCOS (KEELI			R	6799	1		10566163	H	35	0
0016	11444286	BAILEY, KASAMA			20040319	20040319	0000080000	WEST ISLAND COCOS (KEELI			R	6799	1		10566164	H	37	0
0017	11444287	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELI			R	6799	1		10566165	H	39	0
0018	11444288	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELI			R	6799	1		10566166	H	41	0
0100	1115206	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115209	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115215	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115219	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115220	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115224	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115225	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115226	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115207	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115208	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115211	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115214	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115216	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115217	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115221	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115227	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115228	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115229	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115230	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115231	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115232	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115233	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	11496255												1		10608783	H	100	0
0100	1115207	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115208	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115214	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115216	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115217	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115221	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115227	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115228	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115229	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115230	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115231	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115232	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0100	1115233	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		10608783	H	100	0
0101	1115591	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		0		0	0
0101	1115180	THOMSON, IAN FRANCIS		Cocos (Keeling) Islands Administration	20020525	20020525	0000380000	West Island Cocos (Keelin			R		2		0		0	0
0101	1115180	THOMSON, IAN FRANCIS		Cocos (Keeling) Islands Administration	20020525	20020525	0000380000	West Island Cocos (Keelin			R		2		0		0	0
0102	1115590	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		0		0	0
0102	1115592	COCOS KEELING ISLANDS SHIRE			19960402	19960402	0000000000		L	901	R		1		0		0	0
0102	1115181	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000		Z		R		3		0		0	0
0102	1115181	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000		Z		R		3		0		0	0
0103	1115182	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3		0		0	0
0103	1115182	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3		0		0	0
0104	1113733	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1113734	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1113735	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1113736	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1113737	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1115203	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1115204	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1115205	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1115593	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1115594	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1115595	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0		0	0
0104	1115596	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402													

LOCNO	PIN	OWNER	MANAGEMENT	MGR_NAME	SALEDATE	SALEDATE	PURCHASEPR	LOCATION	GPRPFX	GPRSFX	REGION	POSTCODE	RENDER_NORAIN	N NOFROM	NOTO	NOFROMSFX
0104	1115602	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115603	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115604	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115605	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115606	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115607	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115608	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115609	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115610	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115611	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115612	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115613	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115614	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115615	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115616	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115617	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115618	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115619	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115620	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115621	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115622	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115623	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115624	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115625	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115626	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115627	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115628	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115629	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115630	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115631	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115632	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115633	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115634	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115635	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115636	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115637	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115638	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115639	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115640	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115641	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115642	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115643	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115644	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115645	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115646	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115647	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115648	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115649	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115650	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115651	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115652	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115653	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115654	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115655	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115656	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115657	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115658	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115659	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115660	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115661	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115662	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115663	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115664	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115665	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115666	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115667	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115668	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115669	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115670	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115671	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115672	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115673	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115674	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115675	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115676	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115677	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115678	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115679	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115680	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115681	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115682	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0
0104	1115683	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0

LOCNO	PIN	OWNER	MANAGEMENT	MGR_NAME	SALEDATE	SALEDAT	PURCHASEPR	LOCATION	GPRPFX	GPRSFX	REGION	POSTCODE	RENDER	NORAIN	N	NOFROM	NOTO	NOFROMSFX
0104	1115684	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0	0	0
0104	1115685	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0	0	0
0104	1115686	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0	0	0
0104	1115687	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0	0	0
0104	1115688	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0	0	0
0104	1115689	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0	0	0
0104	1115690	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0	0	0
0104	1115691	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0	0	0
0104	1115692	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0	0	0
0104	1115693	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	19960402	19960402	0000000000		L	901	R		1		0	0	0	0
0104	1115183	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3		0	0	0	0
0104	1115183	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3		0	0	0	0
0105	1115589								L	901			1		0	0	0	0
0105	1115191	EXGERALDTON PTY LTD		Cocos (Keeling) Islands Administration	20060711	20060711	0000800000		P		R		2		0	0	0	0
0105	1115191	EXGERALDTON PTY LTD		Cocos (Keeling) Islands Administration	20060711	20060711	0000800000		P		R		2		0	0	0	0
0106	1115192	DAVIES, TIMOTHY BRYAN		Cocos (Keeling) Islands Administration	20070823	19970204	0000500000		C		R		2		0	0	0	0
0106	1115192	DAVIES, TIMOTHY BRYAN		Cocos (Keeling) Islands Administration	20070823	19970204	0000500000		C		R		2		0	0	0	0
0107	1115193	DAVIES, TIMOTHY BRYAN		Cocos (Keeling) Islands Administration	20070823	19970204	0000713000		C		R		2		0	0	0	0
0107	1115193	DAVIES, TIMOTHY BRYAN		Cocos (Keeling) Islands Administration	20070823	19970204	0000713000		C		R		2		0	0	0	0
0108	1115178	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000	West Island Cocos (Keelin	Z		R		2		0	0	0	0
0108	1115178	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000	West Island Cocos (Keelin	Z		R		2		0	0	0	0
0108	1115178	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000	West Island Cocos (Keelin	Z		R		2		0	0	0	0
0109	1115177	DIRECTOR OF NATIONAL PARKS		Cocos (Keeling) Islands Administration	20020423	20020423	0000000001	West Island Cocos (Keelin			R		2		0	0	0	0
0109	1115177	DIRECTOR OF NATIONAL PARKS		Cocos (Keeling) Islands Administration	20020423	20020423	0000000001	West Island Cocos (Keelin			R		2		0	0	0	0
0110	1115127	AIRSERVICES AUSTRALIA		Cocos (Keeling) Islands Administration	20020312	20020312	0000000001	West Island Cocos (Keelin	Z		R		2		0	0	0	0
0110	1115127	AIRSERVICES AUSTRALIA		Cocos (Keeling) Islands Administration	20020312	20020312	0000000001	West Island Cocos (Keelin	Z		R		2		0	0	0	0
0111	1115131	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin			R		3		0	0	0	0
0111	1115131	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin			R		3		0	0	0	0
0112	1115130	ARKRIE, ROJEMAH		Cocos (Keeling) Islands Administration	20040319	20040319	0000195000	West Island Cocos (Keelin	P		R		2		0	0	0	0
0112	1115130	ARKRIE, ROJEMAH		Cocos (Keeling) Islands Administration	20040319	20040319	0000195000	West Island Cocos (Keelin	P		R		2		0	0	0	0
0113	1115129	LCL NOMINEES PTY LTD		Cocos (Keeling) Islands Administration	20020701	20020701	0000240000	West Island Cocos (Keelin			R		2		0	0	0	0
0113	1115129	LCL NOMINEES PTY LTD		Cocos (Keeling) Islands Administration	20020701	20020701	0000240000	West Island Cocos (Keelin			R		2		0	0	0	0
0114	1115128	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R		2		0	0	0	0
0114	1115128	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R		2		0	0	0	0
0114	1115128	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R		2		0	0	0	0
0115	1115116	BLOOMFIELD, CHRISTINE FRANCIS		Cocos (Keeling) Islands Administration	20020628	20020628	0000242500	West Island Cocos (Keelin			R		2		0	0	0	0
0115	1115116	BLOOMFIELD, CHRISTINE FRANCIS		Cocos (Keeling) Islands Administration	20020628	20020628	0000242500	West Island Cocos (Keelin			R		2		0	0	0	0
0116	1115115	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R		2		0	0	0	0
0116	1115115	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R		2		0	0	0	0
0116	1115115	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R		2		0	0	0	0
0117	1115114	DIRECTOR OF NATIONAL PARKS		Cocos (Keeling) Islands Administration	20020423	20020423	0000000001	West Island Cocos (Keelin	Z		R		2		0	0	0	0
0117	1115114	DIRECTOR OF NATIONAL PARKS		Cocos (Keeling) Islands Administration	20020423	20020423	0000000001	West Island Cocos (Keelin	Z		R		2		0	0	0	0
0118	1115113	CHRISTIE, GEOFFREY JAMES		Cocos (Keeling) Islands Administration	20040319	20040319	0000190000	West Island Cocos (Keelin	P		R		2		0	0	0	0
0118	1115113	CHRISTIE, GEOFFREY JAMES		Cocos (Keeling) Islands Administration	20040319	20040319	0000190000	West Island Cocos (Keelin	P		R		2		0	0	0	0
0119	1115112	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin			R		3		0	0	0	0
0119	1115112	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin			R		3		0	0	0	0
0120	1115111	JAMES, ASHLEY WILSON		Cocos (Keeling) Islands Administration	20050712	20050712	0000350000	West Island Cocos (Keelin			R		2		0	0	0	0
0120	1115111	JAMES, ASHLEY WILSON		Cocos (Keeling) Islands Administration	20050712	20050712	0000350000	West Island Cocos (Keelin			R		2		0	0	0	0
0121	1115121	GARBIN, ANTONIA		Cocos (Keeling) Islands Administration	20040519	20040519	0000135000	West Island Cocos (Keelin			R	6799	2		1187869	L	121	0
0121	1115121	GARBIN, ANTONIA		Cocos (Keeling) Islands Administration	20040519	20040519	0000135000	West Island Cocos (Keelin			R	6799	2		1187869	L	121	0
0122	1115122	HALL, SARAH-CHRISTINA		Cocos (Keeling) Islands Administration	19970514	19970514	0000049000	West Island Cocos (Keelin	P		R	6799	2		1187921	L	122	0
0122	1115122	HALL, SARAH-CHRISTINA		Cocos (Keeling) Islands Administration	19970514	19970514	0000049000	West Island Cocos (Keelin	P		R	6799	2		1187921	L	122	0
0123	1115125	MIRIA PTY LTD			19990616	20030820	0000000000	WEST ISLAND COCOS (KEEL	Z			6799	19		1187926	L	123	0
0124	1115126	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	19970204	19970204	0000000000	West Island Cocos (Keelin	C		R	6799	2		1187927	L	124	0
0124	1115126	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	19970204	19970204	0000000000	West Island Cocos (Keelin	C		R	6799	2		1187927	L	124	0
0125	1115190	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3		0	0	0	0
0125	1115190	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3		0	0	0	0
0126	1115184	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3		0	0	0	0
0126	1115184	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3		0	0	0	0
0127	1115185	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000	West Island Cocos (Keelin			R	6799	2		1187932	L	127	0
0127	1115185	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000	West Island Cocos (Keelin			R	6799	2		1187932	L	127	0
0127	1115185	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000	West Island Cocos (Keelin			R	6799	2		1187932	L	127	0
0128	1115109	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20020516	20020516	0000000000	West Island Cocos (Keelin	C		R	6799	3		0	0	0	0
0128	1115109	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20020516	20020516	0000000000	West Island Cocos (Keelin	C		R	6799	3		0	0	0	0
0129	1115186	WASHER, KAYE		Cocos (Keeling) Islands Administration	19991228	19991228	0000150000	West Island Cocos (Keelin	P		R	6799	2		1187935	L	129	0
0129	1115186	WASHER, KAYE		Cocos (Keeling) Islands Administration	19991228	19991228	0000150000	West Island Cocos (Keelin	P		R	6799	2		1187935	L	129	0
0130	1115173	MASON, DENISE CHERYL		Cocos (Keeling) Islands Administration	19991101	19991101	0000098000	West Island Cocos (Keelin			R		2		0	0	0	0
0130	1115173	MASON, DENISE CHERYL		Cocos (Keeling) Islands Administration	19991101	19991101	0000098000	West Island Cocos (Keelin			R		2		0	0	0	0
0131	1115194	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		2		0	0	0	0
0131	1115194	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		2		0	0	0	0
0131	1115194	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		2		0	0	0	0
0132	1115172	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin			R		3		0	0	0	0
0132	1115172	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin			R		3		0	0	0	0
0133	1115195	HAMMOND, JEREMY PHILIP		Cocos (Keeling) Islands Administration	20020827	20020827	0000235000	West Island Cocos (Keelin			R		2		0	0	0	0
0133	1115195	HAMMOND, JEREMY PHILIP		Cocos (Keeling) Islands Administration	20020827	20020827	0000235000	West Island Cocos (Keelin			R		2		0	0	0	0
0134	1115187	TUNNAcliffe, JOHN JOSEPH		Cocos (Keeling) Islands Administration	20070702	20070502	0000605000	West Island Cocos (Keelin			R	6799	2		1187937	L	134	0

COGNO PIN	OWNER	MANAGEMENT	MGR_NAME	SALEDATE	SALEDATE	PURCHASEPR	LOCATION	GRPRFX	GRPSFX	REGION	POSTCODE	RENDER	NORAIN	N	NOFROM	NOTO	NOFROMSFX	
0137	1115124	POLLEO PTY LTD		Cocos (Keeling) Islands Administration	19991014	19991014	0000128000	West Island Cocos (Keelin			R	6799	2		1187925	L	137	0
0137	1115124	POLLEO PTY LTD		Cocos (Keeling) Islands Administration	19991014	19991014	0000128000	West Island Cocos (Keelin			R	6799	2		1187925	L	137	0
0138	1115123	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R	6799	2		1187923	L	138	0
0138	1115123	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R	6799	2		1187923	L	138	0
0138	1115123	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R	6799	2		1187923	L	138	0
0139	1115120	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R	6799	3			0	0	0
0139	1115120	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R	6799	3		0	0	0	0
0140	1115119	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R	6799	2		1187867	L	140	0
0140	1115119	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R	6799	2		1187867	L	140	0
0140	1115119	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R	6799	2		1187867	L	140	0
0141	1115106	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R		2			0	0	0
0141	1115106	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R		2			0	0	0
0141	1115106	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R		2			0	0	0
0142	1115152	VERMEEREN, LAURELEA		Cocos (Keeling) Islands Administration	20050724	20050724	0000315000				R	2			2		0	0
0142	1115152	VERMEEREN, LAURELEA		Cocos (Keeling) Islands Administration	20050724	20050724	0000315000				R	2			2		0	0
0143	1115158	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	3			0	0	0	0
0143	1115158	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	3			0	0	0	0
0144	1115151	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	3			0	0	0	0
0144	1115151	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	3			0	0	0	0
0145	1115159	AFRICH, EDWARD IVAN		Cocos (Keeling) Islands Administration	20060315	20060315	0000625000				R	2			0	0	0	0
0145	1115159	AFRICH, EDWARD IVAN		Cocos (Keeling) Islands Administration	20060315	20060315	0000625000				R	2			0	0	0	0
0146	1115150	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	3			0	0	0	0
0146	1115150	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	3			0	0	0	0
0147	1115161	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0147	1115161	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0147	1115161	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0148	1115135	FLETCHER, ANNETTE MARIE		Cocos (Keeling) Islands Administration	20090124	20021227	0000600000				R	2			0	0	0	0
0148	1115135	FLETCHER, ANNETTE MARIE		Cocos (Keeling) Islands Administration	20090124	20021227	0000600000				R	2			0	0	0	0
0149	1115162	BERTRAM, GAVIN CHARLES		Cocos (Keeling) Islands Administration	20021119	20021119	0000277500				R	2			0	0	0	0
0149	1115162	BERTRAM, GAVIN CHARLES		Cocos (Keeling) Islands Administration	20021119	20021119	0000277500				R	2			0	0	0	0
0150	1115134	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	2			0	0	0	0
0150	1115134	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	2			0	0	0	0
0150	1115134	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	2			0	0	0	0
0151	1115163	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0151	1115163	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0151	1115163	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0152	1115133	HENDER, MICHAEL CAMPBELL		Cocos (Keeling) Islands Administration	20051025	20051025	0000300000		Z		R	2			0	0	0	0
0152	1115133	HENDER, MICHAEL CAMPBELL		Cocos (Keeling) Islands Administration	20051025	20051025	0000300000		Z		R	2			0	0	0	0
0153	1115164	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0153	1115164	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0153	1115164	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0154	1115132	DEFENCE HOUSING AUTHORITY		Cocos (Keeling) Islands Administration	20050105	20050105	0000000001		C		R	2			0	0	0	0
0154	1115132	DEFENCE HOUSING AUTHORITY		Cocos (Keeling) Islands Administration	20050105	20050105	0000000001		C		R	2			0	0	0	0
0155	1115165	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0155	1115165	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R	2			0	0	0	0
0156	1115153	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	2			0	0	0	0
0156	1115153	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	2			0	0	0	0
0156	1115153	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	2			0	0	0	0
0157	1115166	DEFENCE HOUSING AUTHORITY		Cocos (Keeling) Islands Administration	20050105	20050105	0000000001				R	2			0	0	0	0
0157	1115166	DEFENCE HOUSING AUTHORITY		Cocos (Keeling) Islands Administration	20050105	20050105	0000000001				R	2			0	0	0	0
0158	1115154	CLUNIES-ROSS, CATHERINE MONICA		Cocos (Keeling) Islands Administration	20040319	20040319	0000180000				R	2			0	0	0	0
0158	1115154	CLUNIES-ROSS, CATHERINE MONICA		Cocos (Keeling) Islands Administration	20040319	20040319	0000180000				R	2			0	0	0	0
0159	1115170	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	2			0	0	0	0
0159	1115170	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	2			0	0	0	0
0159	1115170	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R	2			0	0	0	0
0160	1115107	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031117	20031117	0000000000	West Island Cocos (Keelin			R	6799	2		1187859	L	160	0
0160	1115107	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031117	20031117	0000000000	West Island Cocos (Keelin			R	6799	2		1187859	L	160	0
0160	1115107	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031117	20031117	0000000000	West Island Cocos (Keelin			R	6799	2		1187859	L	160	0
0161	1115169	SMITH, JOHN ARTHUR WILLIAM		Cocos (Keeling) Islands Administration	19990910	19990910	0000165000		P		R	2			0	0	0	0
0161	1115169	SMITH, JOHN ARTHUR WILLIAM		Cocos (Keeling) Islands Administration	19990910	19990910	0000165000		P		R	2			0	0	0	0
0162	1115188	DICKS, DILYS ELIZABETH		Cocos (Keeling) Islands Administration	20050726	20050726	0000610000	West Island Cocos (Keelin			R	6799	2		1187938	L	162	0
0162	1115188	DICKS, DILYS ELIZABETH		Cocos (Keeling) Islands Administration	20050726	20050726	0000610000	West Island Cocos (Keelin			R	6799	2		1187938	L	162	0
0163	1115168	LCL NOMINEES PTY LTD		Cocos (Keeling) Islands Administration	19970516	19970516	0000166000		Z		R	2			0	0	0	0
0163	1115168	LCL NOMINEES PTY LTD		Cocos (Keeling) Islands Administration	19970516	19970516	0000166000		Z		R	2			0	0	0	0
0164	1115189	TUNNACLIFFE, JOHN JOSEPH		Cocos (Keeling) Islands Administration	20060914	20060914	0000450000	West Island Cocos (Keelin	P		R	6799	2		1187940	L	164	0
0164	1115189	TUNNACLIFFE, JOHN JOSEPH		Cocos (Keeling) Islands Administration	20060914	20060914	0000450000	West Island Cocos (Keelin	P		R	6799	2		1187940	L	164	0
0165	1115171	O'DONNELL, JOHN MALCOLM		Cocos (Keeling) Islands Administration	19990910	19990910	0000120000	West Island Cocos (Keelin			R	2			0	0	0	0
0165	1115171	O'DONNELL, JOHN MALCOLM		Cocos (Keeling) Islands Administration	19990910	19990910	0000120000	West Island Cocos (Keelin			R	2			0	0	0	0
0166	1115174	COMMONWEALTH OF AUSTRALIA	COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	19961022	19961022	0000000000	West Island Cocos (Keelin			R	2			0	0	0	0
0166	1115174	COMMONWEALTH OF AUSTRALIA	COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	19961022	19961022	0000000000	West Island Cocos (Keelin			R	2			0	0	0	0
0166	1115174	COMMONWEALTH OF AUSTRALIA	COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	19961022	19961022	0000000000	West Island Cocos (Keelin			R	2			0	0	0	0
0167	1115196	COMMONWEALTH OF AUSTRALIA	SHIRE	Cocos (Keeling) Islands Administration	19971216	19971216	0000000000	West Island Cocos (Keelin			R	2			0	0	0	0
0167	1115196	COMMONWEALTH OF AUSTRALIA	SHIRE	Cocos (Keeling) Islands Administration	19971216	19971216	0000000000	West Island Cocos (Keelin			R	2			0	0	0	0
0167	1115196	COMMONWEALTH OF AUSTRALIA	SHIRE	Cocos (Keeling) Islands Administration	19971216	19971216	0000000000	West Island Cocos (Keelin			R	2			0	0	0	0
0168	1115175	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000		Z		R	3			0	0	0	0
0168	1115175	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000		Z		R	3			0	0	0	0
0169	1115117	COMMONWEALTH OF AUSTRALIA	COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	19961022	19961022	0000000000	West Island Cocos (Keelin	S	LSD	R	6799	2		1187864	L	169	0
0169	1115117	COMMONWEALTH OF AUSTRALIA	COMMONWEALTH OF AUSTRALIA	Cocos (Keeling) Islands Administration	19961022	19961022	0000000000	West Island Cocos (Keelin	S	LSD	R	6799	2		1187864	L	169	

21/07/2009

LOCNO	PIN	OWNER	MANAGEMENT	MGR_NAME	SALEDATE	SALEDAT	PURCHASEPR	LOCATION	GPRPFX	GPRSFX	REGION	POSTCODE	RENDER	NORAIN	N	NOFROM	NOTO	NOFROMSFX	
0331	1303141	COMMONWEALTH OF AUSTRALIA			20000719	20000719	0000000000				R		2		0		0	0	
0331	1303141	COMMONWEALTH OF AUSTRALIA			20000719	20000719	0000000000				R		2		0		0	0	
0331	1303141	COMMONWEALTH OF AUSTRALIA			20000719	20000719	0000000000				R		2		0		0	0	
0332	1303140	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20000719	20000719	0000000000				R		2		0		0	0	
0332	1303140	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20000719	20000719	0000000000				R		2		0		0	0	
0332	1303140	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20000719	20000719	0000000000				R		2		0		0	0	
0333	11256183	COMMONWEALTH OF AUSTRALIA			20040428	20040428	0000000000				R		2		10290816	L	333	0	
0333	11256183	COMMONWEALTH OF AUSTRALIA			20040428	20040428	0000000000				R		2		10290816	L	333	0	
0333	11256183	COMMONWEALTH OF AUSTRALIA			20040428	20040428	0000000000				R		2		10290816	L	333	0	
0334	11256184	COMMONWEALTH OF AUSTRALIA			20040428	20040428	0000000000				R		2		10290817	L	334	0	
0334	11256184	COMMONWEALTH OF AUSTRALIA			20040428	20040428	0000000000				R		2		10290817	L	334	0	
0334	11256184	COMMONWEALTH OF AUSTRALIA			20040428	20040428	0000000000				R		2		10290817	L	334	0	
0335	11299225	COMMONWEALTH OF AUSTRALIA			20040625	20040625	0000000000				R		1		10334999	L	335	0	
0335	11299225	COMMONWEALTH OF AUSTRALIA			20040625	20040625	0000000000				R		1		10334999	L	335	0	
0336	11218848	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031119	20031119	0000000000		C		T		6		0		0	0	
0336	11218848	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031119	20031119	0000000000		C		T		6		0		0	0	
0337	11218847	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031119	20031119	0000000000	West Island Cocos (Keelin			T		2		10254249	L	337	0	
0337	11218847	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031119	20031119	0000000000	West Island Cocos (Keelin			T		2		10254249	L	337	0	
0337	11218847	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031119	20031119	0000000000	West Island Cocos (Keelin			T		2		10254249	L	337	0	
0338	1365196	COMMONWEALTH OF AUSTRALIA	SHIRE		20020809	20020809	0000000000	Home Island Cocos (Keelin			T		2		10082213	L	338	0	
0338	1365196	COMMONWEALTH OF AUSTRALIA	SHIRE		20020809	20020809	0000000000	Home Island Cocos (Keelin			T		2		10082213	L	338	0	
0338	1365196	COMMONWEALTH OF AUSTRALIA	SHIRE		20020809	20020809	0000000000	Home Island Cocos (Keelin			T		2		10082213	L	338	0	
0339	1365195	COMMONWEALTH OF AUSTRALIA			20030630	20030630	0000000000		C		T		2		10243907	L	339	0	
0339	1365195	COMMONWEALTH OF AUSTRALIA			20030630	20030630	0000000000		C		T		2		10243907	L	339	0	
0339	1365195	COMMONWEALTH OF AUSTRALIA			20030630	20030630	0000000000		C		T		2		10243907	L	339	0	
0340	11299184	COMMONWEALTH OF AUSTRALIA			20040615	20040615	0000000000		S		LSD		3		0		0	0	
0341	11299159	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		1		10334939	L	341	0	
0341	11299159	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		1		10334939	L	341	0	
0342	11299160	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000		C		R		3		0		0	0	
0343	11299155	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		3		0		0	0	
0344	11299154	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000		C		R		3		0		0	0	
0345	11299151	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		3		0		0	0	
0346	11299152	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		1		10334944	L	346	0	
0346	11299152	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		1		10334944	L	346	0	
0347	11299153	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		1		10334945	L	347	0	
0347	11299153	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		1		10334945	L	347	0	
0348	11299157	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000		C		R		3		0		0	0	
0349	11299158	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000		C		R		1		10334947	L	349	0	
0349	11299158	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000		C		R		1		10334947	L	349	0	
0350	11299156	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		1		10334948	L	350	0	
0350	11299156	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		1		10334948	L	350	0	
0351	11299224	COMMONWEALTH OF AUSTRALIA			20040625	20040625	0000000000		C		R		3		0		0	0	
0600	11607568	FLYNN, ANNA LOUISE			20070122	20070122	0000000000				R		1		10699112	N	0	0	
1000	1365197	LEIST, LLOYD CHARLES			20010824	20010824	0000400000	Home Island Cocos (Keelin	P		T	6799	1		1591695	H	39	0	
1001	1365194	COCOS KEELING ISLANDS SHIRE			20040505	20040505	0000000001	Home Island Cocos (Keelin	L	901	T	6799	1		1591698	H	31	0	
1106	1113721	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	20020517	20020517	0000000000		L	901	R		1		10237547	L	1106	0	
1106	1113721	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	20020517	20020517	0000000000		L	901	R		1		10237547	L	1106	0	
1107	11016564	COCOS KEELING ISLANDS SHIRE			20020517	20020517	0000000000		L	901	R		1		10040809	L	1107	0	
1108	1113731	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	20020517	20020517	0000000000		L	901	R		1		0		0	0	
1108	1113731	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	20020517	20020517	0000000000		L	901	R		1		0		0	0	
1109	1113730	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	20020517	20020517	0000000000		L	901	R		1		0		0	0	
1109	1113730	COCOS KEELING ISLANDS SHIRE		Cocos (Keeling) Islands Shire	20020517	20020517	0000000000		L	901	R		1		0		0	0	
3003	11444290	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000				R		3		0		0	0	
3004	11444293	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELIN			R	6799	1		10566169	H	14	0	
3005	11444289	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000	WEST ISLAND COCOS (KEELIN			R	6799	1		10566167	H	18	0	
3006	11444279	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000				R		1		0		0	0	
	11203780																		
	11203781												13		0		0	0	
	1115059	COMMONWEALTH OF AUSTRALIA		Bureau of Meteorology	20031117	20031117	0000000000	West Island Cocos (Keelin	C		R		3		0		0	0	
	11299160	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000		C		R		3		0		0	0	
	1115167	COMMONWEALTH OF AUSTRALIA			19961022	19961022	0000000000		S		LSD		3		0		0	0	
	11299155	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		3		0		0	0	
	11299151	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000				R		3		0		0	0	
	11299154	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000		C		R		3		0		0	0	
	11299157	COMMONWEALTH OF AUSTRALIA			20040922	20040922	0000000000		C		R		3		0		0	0	
	1215186	COMMONWEALTH OF AUSTRALIA			19990303	19990303	0000000000	West Island Cocos (Keelin			R		6		0		0	0	
	1290328	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	19990810	19990810	0000000000				R		6		0		0	0	
	1215181			Cocos (Keeling) Islands Shire									13		0		0	0	
	1215184												13		0		0	0	
	1291302			Cocos (Keeling) Islands Shire									13		0		0	0	
	11016562			Cocos (Keeling) Islands Shire									13		0		0	0	
	11016563			Cocos (Keeling) Islands Shire									13		0		0	0	
	11444291												13		0		0	0	
	1115110	COMMONWEALTH OF AUSTRALIA	SHIRE	Cocos (Keeling) Islands Administration	19961022	19961022	0000000000	West Island Cocos (Keelin	S		LSD	R	6799	3		1850157	L	170	0
	1115089	COMMONWEALTH OF AUSTRALIA	SHIRE	Cocos (Keeling) Islands Administration	19961022	19961022	0000000000	West Island Cocos (Keelin	S		LSD	R		3		0		0	0
	1115157	COMMONWEALTH OF AUSTRALIA	AUST. TCOMMUNICATION COMM	Cocos (Keeling) Islands Administration	19961022	19961022	0000000000				R		3		0		0	0	
	1189457	COMMONWEALTH OF AUSTRALIA	COMMONWEALTH OF AUSTRALIA		19961022	19961022	0000000000	West Island Cocos (Keelin			R		3		0		0	0	
	1115099	COMMONWEALTH OF AUSTRALIA	SHIRE	Cocos (Keeling) Islands Administration	19961022	19961022	0000000000	West Island Cocos (Keelin			R		3		0		0	0	
	1115131	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin			R		3		0		0	0	
	1115112	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin			R		3		0		0	0	
	1115172	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin			R		3		0		0	0	
	1115087	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin			R		3		0		0	0	

LOCNO	PIN	OWNER	MANAGEMENT	MGR_NAME	SALEDATE	SALEDAT	PURCHASEPR	LOCATION	GPRPFX	GPRSFX	REGION	POSTCODE	RENDER	NORAIN	N NOFROM	NOTO	NOFROMSFX
	1115098	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R		3	0	0	0	0
	1115120	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031113	20031113	0000000000	West Island Cocos (Keelin	C		R	6799	3	0	0	0	0
	1115151	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R		3	0	0	0	0
	1115150	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000		C		R		3	0	0	0	0
	1115158	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20021001	20021001	0000000000				R		3	0	0	0	0
	1115184	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3	0	0	0	0
	1115190	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3	0	0	0	0
	1115183	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3	0	0	0	0
	1115182	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000				R		3	0	0	0	0
	1115181	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000		Z		R		3	0	0	0	0
	1115109	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20020516	20020516	0000000000	West Island Cocos (Keelin	C		R	6799	3	0	0	0	0
	1115175	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20030807	20030807	0000000000		Z		R		3	0	0	0	0
	11218848	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031119	20031119	0000000000		C		T		6	0	0	0	0
	1115100	COMMONWEALTH OF AUSTRALIA		Cocos (Keeling) Islands Administration	20031117	20031117	0000000000	West Island Cocos (Keelin	C		R	6799	3	10336465	L	175	0
	11299184	COMMONWEALTH OF AUSTRALIA			20040615	20040615	0000000000		S	LSD	R		3	0	0	0	0
	11299224	COMMONWEALTH OF AUSTRALIA			20040625	20040625	0000000000		C		R		3	0	0	0	0
	11444290	COMMONWEALTH OF AUSTRALIA			20060110	20060110	0000000000				R		3	0	0	0	0

LOTNO	PIN	LOT_N	PLAN	PURPOSE	DIAGRAM	SURVEY	CENTLAT
0001	11204434	1	HOUSE 117		JALAN BUNGA MAWAR	P018504	1 -12.11772985000
0001	11204487	1	HOUSE 161		JALAN BUNGA KANGKONG		-12.11747180000
0001	11204532	1	HOUSE 168		JALAN BUNGA KANGKONG		-12.11871427000
0001	11204608	1	1047.12		Co-op building. JALAN MELATI	P019715	1 -12.11618071000
0002	11204435	2	HOUSE 122		JALAN BUNGA MAWAR	P018504	2 -12.11871069000
0002	11204486	2	HOUSE 155		JALAN BUNGA KANGKONG		-12.11650479000
0002	11204533	2	HOUSE 175		JALAN BUNGA KANGKONG		-12.11965051000
0018	11204599	18	19715			P019715	18 -12.11678323000
0025	11203797	25				P018530	25 -12.18166676000
0027	11203795	27	18529			P018529	27 -12.16249802000
0029	11203799	29	18531			P018531	29 -12.20612670640
0030	11203788	30	18528			P018528	30 -12.19310122000
0033	11203786	33	RAAF RECEIVER SITE		18523	P018523	33 -12.19945649000
0038	11204539	38	1200.043		NURSES HOUSE	P018511	38 -12.11646893000
0039	11204541	39	Medical Centre		JALAN MASJID	P018512	39 -12.11681617000
0040	11204543	40	18513			P018513	40 -12.11828638000
0041	11204545	41	PRIMARY SCHOOL		18514	P018514	41 -12.11850036000
0043	11203766	43	18524			P018518	43 -12.15732921000
0043	11203767	43	18524			P018518	43 -12.15819768000
0101	11204410	101	HOUSE 101		JALAN PANTAI	P018504	101 -12.11729769000
0102	11204411	102	HOUSE 102	GOVT REQUIREMENTS	JALAN PANTAI	P018504	102 -12.11743909000
0103	11204412	103	HOUSE 103	GOVT REQUIREMENTS	JALAN PANTAI	P018504	103 -12.11757124000
0104	11204413	104	HOUSE 104	GOVT REQUIREMENTS	JALAN PANTAI	P018504	104 -12.11770785000
0105	11204414	105	HOUSE 105		JALAN PANTAI	P018504	105 -12.11784449000
0106	11204415	106	HOUSE 106		JALAN PANTAI	P018504	106 -12.11798399000
0107	11204416	107	HOUSE 107		JALAN PANTAI	P018504	107 -12.11812157000
0108	11204417	108	HOUSE 108	GOVT REQUIREMENTS	JALAN PANTAI	P018504	108 -12.11825904000
0109	11204418	109	HOUSE 109		JALAN PANTAI	P018504	109 -12.11853989000
0110	11204419	110	HOUSE 110		JALAN PANTAI	P018504	110 -12.11868172000
0111	11204420	111	HOUSE 111	GOVT REQUIREMENTS	JALAN PANTAI	P018504	111 -12.11882173000
0112	11204421	112	HOUSE 112		JALAN PANTAI	P018504	112 -12.11896913000
0113	11204422	113	house 113		JALAN BUNGA MAWAR	P018504	113 -12.11720462000
0114	11204423	114	house 114	GOVT REQUIREMENTS	JALAN BUNGA MAWAR	P018504	114 -12.11734498000
0115	11204424	115	HOUSE 115		JALAN BUNGA MAWAR	P018504	115 -12.11747815000
0116	11204425	116	HOUSE 116	GOVT REQUIREMENTS	JALAN BUNGA MAWAR	P018504	116 -12.11761159000
0117	11204426	117	HOUSE 117		JALAN BUNGA MAWAR	P018504	117 -12.11775326000
0118	11204427	118	HOUSE 118		JALAN BUNGA MAWAR	P018504	118 -12.11789437000
0119	11204428	119	HOUSE 119	GOVT REQUIREMENTS	JALAN BUNGA MAWAR	P018504	119 -12.11802973000
0120	11204429	120	HOUSE 120		JALAN BUNGA MAWAR	P018504	120 -12.11816778000
0121	11204430	121	HOUSE 121		JALAN BUNGA MAWAR	P018504	121 -12.11844795000
0122	11204431	122	HOUSE 122		JALAN BUNGA MAWAR	P018504	122 -12.11859047000
0123	11204432	123	HOUSE 123		JALAN BUNGA MAWAR	P018504	123 -12.11872928000
0124	11204433	124	HOUSE 124		JALAN BUNGA MAWAR	P018504	124 -12.11887669000
0125	11204492	125	HOUSE 125	GOVT REQUIREMENTS	JALAN KIPAS	P018506	125 -12.11921139000
0126	11204493	126	HOUSE 126	GOVT REQUIREMENTS	JALAN KIPAS	P018506	126 -12.11919400000
0127	11204494	127	HOUSE 127	GOVT REQUIREMENTS	JALAN KIPAS	P018506	127 -12.11916526000
0128	11204495	128	HOUSE 128	GOVT REQUIREMENTS	JALAN KIPAS	P018506	128 -12.11914833000
0129	11204446	129	HOUSE 129		JALAN KEMBANG MOLOK	P018505	129 -12.11633105000
0130	11204447	130	HOUSE 130		JALAN KEMBANG MOLOK	P018505	130 -12.11647222000
0131	11204448	131	HOUSE 131	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018505	131 -12.11661071000
0132	11204449	132	HOUSE 132	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018505	132 -12.11675560000
0133	11204450	133	HOUSE 133		JALAN KEMBANG MOLOK	P018505	133 -12.11701927000
0134	11204451	134	HOUSE 134		JALAN KEMBANG MOLOK	P018505	134 -12.11715590000
0135	11204452	135	HOUSE 135	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018505	135 -12.11729175000
0136	11204453	136	HOUSE 136		JALAN KEMBANG MOLOK	P018505	136 -12.11743105000
0137	11204454	137	HOUSE 137		JALAN KEMBANG MOLOK	P018505	137 -12.11756709000
0138	11204455	138	HOUSE 138	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018505	138 -12.11770364000
0139	11204456	139	HOUSE 139	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018505	139 -12.11783912000
0140	11204457	140	HOUSE 140	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018505	140 -12.11798089000
0141	11204496	141	HOUSE 141	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018506	141 -12.11826680000
0142	11204497	142	HOUSE 142		JALAN KEMBANG MOLOK	P018506	142 -12.11840765000
0143	11204498	143	HOUSE 143	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018506	143 -12.11854308000
0144	11204499	144	HOUSE 144	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018506	144 -12.11867774000
0145	11204500	145	HOUSE 145		JALAN KEMBANG MOLOK	P018506	145 -12.11881381000
0146	11204501	146	HOUSE 146	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018506	146 -12.11895172000
0147	11204502	147	HOUSE 147	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018506	147 -12.11908993000

LOTNO	PIN	LOT	N PLAN	PURPOSE	DIAGRAM	SURVEY	CENTLAT
0148	11204503	148	HOUSE 148		JALAN KEMBANG MOLOK	P018506	148 -12.11922670000
0149	11204504	149	HOUSE 149		JALAN KEMBANG MOLOK	P018506	149 -12.11947371000
0150	11204505	150	18506	GOVT REQUIREMENTS		P018506	150 -12.11961249000
0151	11204506	151	HOUSE 151	GOVT REQUIREMENTS	JALAN KEMBANG MOLOK	P018506	151 -12.11974950000
0152	11204507	152	HOUSE 152		JALAN KEMBANG MOLOK	P018506	152 -12.11989239000
0153	11204458	153	HOUSE 153	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018505	153 -12.11626252000
0154	11204459	154	HOUSE 154		JALAN BUNGA KANGKONG	P018505	154 -12.11640488000
0155	11204460	155	HOUSE 155	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018505	155 -12.11654330000
0156	11204461	156	HOUSE 156	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018505	156 -12.11668713000
0157	11204462	157	HOUSE 157		JALAN BUNGA KANGKONG	P018505	157 -12.11695283000
0158	11204463	158	HOUSE 158	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018505	158 -12.11709082000
0159	11204464	159	HOUSE 159	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018505	159 -12.11722514000
0160	11204465	160	house 160	POLICE STATION	JALAN BUNGA KANGKONG	P018505	160 -12.11736014000
0161	11204466	161	HOUSE 161		JALAN BUNGA KANGKONG	P018505	161 -12.11749624000
0162	11204467	162	HOUSE 162		JALAN BUNGA KANGKONG	P018505	162 -12.11763382000
0163	11204468	163	HOUSE 163		JALAN BUNGA KANGKONG	P018505	163 -12.11777155000
0164	11204469	164	HOUSE 164		JALAN BUNGA KANGKONG	P018505	164 -12.11791416000
0165	11204508	165	HOUSE 165		JALAN BUNGA KANGKONG	P018506	165 -12.11819736000
0166	11204509	166	HOUSE 166	PROTECTION OF SURVEY MARK	JALAN BUNGA KANGKONG	P018506	166 -12.11833346000
0167	11204510	167	HOUSE 167	RECREATION & FORESHORE M'MENT	JALAN BUNGA KANGKONG	P018506	167 -12.11847078000
0168	11204511	168	HOUSE 168	SUB STATION	JALAN BUNGA KANGKONG	P018506	168 -12.11860817000
0169	11204512	169	HOUSE 169	SCHOOL	JALAN BUNGA KANGKONG	P018506	169 -12.11874358000
0170	11204513	170	HOUSE 170	RECREATION	JALAN BUNGA KANGKONG	P018506	170 -12.11888166000
0171	11204514	171	HOUSE 171		JALAN BUNGA KANGKONG	P018506	171 -12.11901787000
0172	11204515	172	HOUSE 172		JALAN BUNGA KANGKONG	P018506	172 -12.11915740000
0173	11204516	173	HOUSE 173		JALAN BUNGA KANGKONG	P018506	173 -12.11940678000
0174	11204517	174	HOUSE 174		JALAN BUNGA KANGKONG	P018506	174 -12.11954269000
0175	11204518	175	HOUSE 175	RECREATION	JALAN BUNGA KANGKONG	P018506	175 -12.11967739000
0176	11204519	176	HOUSE 176	SUB STATION	JALAN BUNGA KANGKONG	P018506	176 -12.11982321000
0177	11204470	177	HOUSE 177		JALAN BUNGA KANGKONG	P018505	177 -12.11687072000
0178	11204471	178	HOUSE 178	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018505	178 -12.11701269000
0179	11204472	179	HOUSE 179	RECREATION	JALAN BUNGA KANGKONG	P018505	179 -12.11714910000
0180	11204473	180	HOUSE 180	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018505	180 -12.11728551000
0181	11204474	181	HOUSE 181		JALAN BUNGA KANGKONG	P018505	181 -12.11742189000
0182	11204475	182	HOUSE 182	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018505	182 -12.11755827000
0183	11204476	183	HOUSE 183		JALAN BUNGA KANGKONG	P018505	183 -12.11769466000
0184	11204477	184	HOUSE 184	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018505	184 -12.11783438000
0185	11204520	185	HOUSE 185		JALAN BUNGA KANGKONG	P018506	185 -12.11811345000
0186	11204521	186	HOUSE 186		JALAN BUNGA KANGKONG	P018506	186 -12.11825617000
0187	11204522	187	HOUSE 187	CHURCH SITE	JALAN BUNGA KANGKONG	P018506	187 -12.11839812000
0188	11204523	188	HOUSE 188	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018506	188 -12.11853449000
0189	11204524	189	HOUSE 189	GOVT REQUIREMENTS	JALAN BUNGA KANGKONG	P018506	189 -12.11867085000
0190	11204525	190	HOUSE 190		JALAN BUNGA KANGKONG	P018506	190 -12.11880723000
0191	11204526	191	HOUSE 191		JALAN BUNGA KANGKONG	P018506	191 -12.11894360000
0192	11204527	192	HOUSE 192		JALAN BUNGA KANGKONG	P018506	192 -12.11908046000
0193	11204528	193	HOUSE 193		JALAN BUNGA KANGKONG	P018506	193 -12.11932718000
0194	11204529	194	HOUSE 194		JALAN BUNGA KANGKONG	P018506	194 -12.11946828000
0195	11204530	195	HOUSE 195		JALAN BUNGA KANGKONG	P018506	195 -12.11960938000
0196	11204531	196	HOUSE 196		JALAN BUNGA KANGKONG	P018506	196 -12.11975049000
0197	11204478	197	682.03	PEDESTRIAN ACCESS WAY	Fire station	P018505	197 -12.11679012000
0198	11204479	198	18505	PEDESTRIAN ACCESS WAY		P018505	198 -12.11692874000
0199	11204480	199	18505	PEDESTRIAN ACCESS WAY		P018505	199 -12.11706736000
0200	11204481	200	18505			P018505	200 -12.11720598000
0201	11204482	201	18505			P018505	201 -12.11734460000
0202	11204483	202	18505			P018505	202 -12.11748322000
0203	11204484	203	18505			P018505	203 -12.11762185000
0204	11204485	204	18505			P018505	204 -12.11776044000
0207	11204406	207			84541	D084541	207 -12.11470276000
0208	11204621	208	19717			P019717	208 -12.11833379000
0209	11204623	209	19717	METEOROLOGY STATION		P019717	209 -12.11960156000
0210	11204622	210	MEDICAL CENTRE		19717	P019717	210 -12.11736884000
0211	11204549	211	1200.069		Nurses house	P019712	211 -12.11641306000
0212	11204629	212	19718	GOVT REQUIREMENTS		P019718	212 -12.11660795000
0213	11204630	213	19718			P019718	213 -12.11647127000
0214	11204631	214	19718			P019718	214 -12.11633459000
0215	11203778	215	AIRFORCE ROAD		18519	P018519	215 -12.19339273000

COCOS2009			Selected Data for 2009 Lodged			cocos_lodged_jul09.xls		
LOTNO	PIN	LOT_N PLAN	PURPOSE	DIAGRAM	SURVEY	CENTLAT		
0215	11204632	215 19718			P019718	215	-12.11619794000	
0216	11203777	216 SCOUT PARK		AIRFORCE ROAD	P018519	216	-12.19868682000	
0216	11204633	216 19718			P019718	216	-12.11606128000	
0217	11203776	217 18500			P018519	217	-12.20486533000	
0217	11204634	217 19718			P019718	217	-12.11592459000	
0218	11204635	218 19718			P019718	218	-12.11578791000	
0219	11203791	219 41170.58		HORTICULTURAL BLOCK	P018520	219	-12.15278411000	
0219	11204636	219 19718			P019718	219	-12.11565124000	
0220	11203790	220 Horticulture block		Mahoon Road	P018520	220	-12.15472332000	
0220	11204637	220 19718			P019718	220	-12.11573488000	
0221	11204638	221 19718	MEMORIAL SITE		P019718	221	-12.11587366000	
0222	11204639	222 19718	MEMORIAL SITE		P019718	222	-12.11601241000	
0223	11203686	223			P018517	223	-12.14198613000	
0223	11204618	223 19716			P019716	223	-12.11857043000	
0224	11203668	224 TRANNIES BEACH		TOURIST SITE	D084545	224	-12.13977439000	
0224	11204617	224 19716			P019716	224	-12.11833275000	
0225	11203673	225 TRANNIES BEACH		HEARTBREAK DRIVE	P018516	225	-12.14143423000	
0225	11204586	225 19713			P019713	225	-12.11759343000	
0226	11203768	226			P018518	226	-12.15692714000	
0226	11203769	226 RUMAH BARU		WATER FRONTAGE - BOATING PURPOSES. SEE ALSO PIN 1115080 (P018518 226 IS COMPRISED OF TWO PARCELS)	P018518	226	-12.15660118000	
0226	11204588	226 19713			P019713	226	-12.11764475000	
0227	11203647	227		84542	D084542	227	-12.16190266000	
0227	11204587	227 19713			P019713	227	-12.11752154000	
0228	11203782	228 18500			P018519	228	-12.20393910000	
0228	11204589	228 Jalan Masjid		19713	P019713	228	-12.11667369000	
0229	11204590	229 JALAN BUNGA MAWAR		19713	P019713	229	-12.11647120000	
0230	1294099	230			D087096	230	-12.18385157700	
0230	11204591	230 19713			P019713	230	-12.11592097000	
0231	11204592	231 19713			P019713	231	-12.11551495000	
0232	11204598	232 19715			P019715	232	-12.11685426000	
0233	11204578	233			P019712	233	-12.11959890180	
0234	11204616	234 19716			P019716	234	-12.11936846000	
0236	11204624	236 19717			P019717	236	-12.11798655000	
0237	11204595	237 Y		3467.82	P019714	237	-12.11454073000	
0239	11204644	239			P019940	239	-12.11545272000	
0240	11204606	240 19715			P019715	240	-12.11544014000	
0241	11204607	241 357.217		Co-op Bulk Rice Store. JALAN MELATAI/JALAN JUKON	P019715	241	-12.11544606000	
0242	11204642	242 242			P019940	242	-12.11607703000	
0243	11204609	243 1093.957		Co-op hardware store. JALAN MELATI	P019715	243	-12.11575411000	
0244	11204611	244 19715			P019715	244	-12.11588111000	
0245	11204610	245 1047.12		Co-op building. JALAN MELATI	P019715	245	-12.11617510000	
0246	11204548	246 19712			P019712	246	-12.11639397000	
0247	11204600	247 Co-op Timber Store. JALAN MELATI/JALAN SEMPIT		19715	P019715	247	-12.11608918000	
0248	11204601	248 NEW POWER STATION		19715	P019715	248	-12.11617770000	
0249	11204604	249 Plant shed / workshop. JALAN MELATI		19715	P019715	249	-12.11578907000	
0250	11204603	250 Workshop. JALAN MELATI		19715	P019715	250	-12.11556149000	
0251	11204605	251 Gas Bottle & Diesel Storage Shed. JALAN SEMPIT		19715	P019715	251	-12.11582478000	
0253	11204602	253 19715			P019715	253	-12.11630019000	
0254	11204673	254 19942			P019942	254	-12.11176109000	
0255	11204408	255		84544	D084544	255	-12.11434350000	
0256	11204643	256 19440			P019940	256	-12.11517305000	
0256	11204671	256 18500			P019941	256	-12.12039045000	
	11203674	0					-12.14323929000	
	11203687	0					-12.14111802000	
	11203770	0 18500					-12.15714465000	
	11203771	0					-12.15785107000	
	11203772	0					-12.15725047000	
	11203773	0					-12.15681640000	
	11203774	0					-12.15909155450	
	11203792	0 18500					-12.15386718000	
	11203793	0					-12.15396020000	
	11203801	0			COCOSL 00229		-12.13851271000	
	11203802	0					-12.15310987000	
	11203806	0					-12.18055664000	
	11203807	0					-12.17553785000	
	11203808	0 18500					-12.15232925000	

LOTNO PIN	LOT_N PLAN	PURPOSE	DIAGRAM	SURVEY	CENTLAT
11203809	0				-12.15943923000
11203810	0 18500				-12.15560826000
11203811	0 18500				-12.17554878000
11204436	0				-12.11835241000
11204546	0				-12.11855909000
11204550	0				-12.11595820000
11204551	0				-12.11650975000
11204552	0 19712				-12.11680562000
11204553	0 19712				-12.11794073000
11204554	0				-12.11798541000
11204555	0				-12.11681565000
11204556	0				-12.11899018000
11204557	0				-12.11928894000
11204558	0				-12.11946995000
11204559	0				-12.11946090000
11204560	0				-12.11931555000
11204561	0				-12.11897369000
11204562	0				-12.11883729000
11204563	0				-12.11855909000
11204564	0				-12.11852661000
11204565	0				-12.11861416000
11204566	0				-12.11739334000
11204567	0				-12.11731302000
11204568	0				-12.11763106000
11204569	0				-12.11754345000
11204570	0				-12.11723616000
11204571	0				-12.11593234000
11204572	0				-12.11619556000
11204573	0 18500				-12.11622927000
11204574	0				-12.11617112000
11204575	0				-12.11609147000
11204576	0				-12.11829166000
11204577	0				-12.11616851000
11204596	0				-12.11277520000
11204612	0				-12.11559368000
11204613	0				-12.11595952000
11204614	0				-12.11650083000
11204666	0				-12.12033961000
11204667	0				-12.12051885000
11204668	0				-12.12026871000
11204669	0				-12.11945566000
11204670	0				-12.12273220000
11204674	0				-12.11469833000
11204675	0				-12.11343269000
11204676	0				-12.11542745000

LOTNO	PIN	CENTLONG	CALC_AREA	LEGAL_AREA	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	USAGE_CODE	DATE_RETIR	DATE_BOUND	PITYP	PIPARCEL	LOT_TYPE	MGR_NAME	TENURE	
0001	11204434	96.89449223000	716.930000000000	717.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 1	FHOLD	Cocos (Keeling) Islands Shire	Plan
0001	11204487	96.89618305000	463.496000000000	464.000000000000	25/09/2003	25/09/2003	KY		M		1	00000000	00000000	1	P018505 1	FHOLD	Cocos (Keeling) Islands Shire	Plan
0001	11204532	96.89637679000	448.060000000000	448.000000000000	25/09/2003	25/09/2003	KY		M		1	00000000	00000000	1	P018506 1	FHOLD	Cocos (Keeling) Islands Shire	Plan
0001	11204608	96.89399122000	298.483000000000	298.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 1	FHOLD	Cocos (Keeling) Islands Shire	Plan
0002	11204435	96.89465232000	380.422000000000	380.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 2	FHOLD	Cocos (Keeling) Islands Shire	Plan
0002	11204486	96.89603187000	241.404000000000	241.000000000000	25/09/2003	25/09/2003	KY		M		1	00000000	00000000	1	P018505 2	FHOLD	Cocos (Keeling) Islands Shire	Plan
0002	11204533	96.89651961000	221.607000000000	222.000000000000	25/09/2003	25/09/2003	KY		M		1	00000000	00000000	1	P018506 2	FHOLD	Cocos (Keeling) Islands Shire	Plan
0018	11204599	96.89461380000	3613.827700000000	3617.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 18	FHOLD	Cocos (Keeling) Islands Shire	Plan
0025	11203797	96.82273211000	23037.335000000000	23286.000000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018530 25	FHOLD	Cocos (Keeling) Islands Shire	Plan
0027	11203795	96.83054423000	28716.624000000000	29190.000000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018529 27	FHOLD	Cocos (Keeling) Islands Shire	Plan
0029	11203799	96.84679936230	74545.054000000000	74545.000000000000	24/09/2003	5/09/2005	KY		M		1	00000000	00000000	1	P018531 29	FHOLD	Cocos (Keeling) Islands Shire	Plan
0030	11203788	96.85983904000	3281.556000000000	3283.000000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018528 30	FHOLD	Cocos (Keeling) Islands Shire	Plan
0033	11203786	96.85825777000	180539.162000000000	180526.000000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018523 33	FHOLD	Asset Services	Plan
0038	11204539	96.89730316000	1200.056000000000	1200.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018511 38	FHOLD	Cocos (Keeling) Islands Shire	Plan
0039	11204541	96.89822765000	2599.853000000000	2600.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018512 39	FHOLD	Cocos (Keeling) Islands Shire	Plan
0040	11204543	96.90194019000	653.363000000000	654.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018513 40	FHOLD	Cocos (Keeling) Islands Shire	Plan
0041	11204545	96.89782034000	10540.885000000000	10540.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018514 41	FHOLD	Cocos (Keeling) Islands Shire	Plan
0043	11203766	96.82376791000	14638.207000000000	14639.000000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018518 43	FHOLD	Asset Services	Plan
0043	11203767	96.82372013000	7941.305000000000	7941.000000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018518 43	FHOLD	Asset Services	Plan
0101	11204410	96.89411666000	1013.708000000000	1013.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 101	FHOLD	Cocos (Keeling) Islands Shire	Plan
0102	11204411	96.89413490000	867.876000000000	867.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 102	FHOLD	Cocos (Keeling) Islands Shire	Plan
0103	11204412	96.89416618000	922.295000000000	922.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 103	FHOLD	Cocos (Keeling) Islands Shire	Plan
0104	11204413	96.89418520000	896.827000000000	896.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 104	FHOLD	Cocos (Keeling) Islands Shire	Plan
0105	11204414	96.89420761000	929.983000000000	929.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 105	FHOLD	Cocos (Keeling) Islands Shire	Plan
0106	11204415	96.89422939000	932.061000000000	932.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 106	FHOLD	Cocos (Keeling) Islands Shire	Plan
0107	11204416	96.89425140000	904.354000000000	904.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 107	FHOLD	Cocos (Keeling) Islands Shire	Plan
0108	11204417	96.89427400000	931.204000000000	931.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 108	FHOLD	Cocos (Keeling) Islands Shire	Plan
0109	11204418	96.89431770000	964.562000000000	964.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 109	FHOLD	Cocos (Keeling) Islands Shire	Plan
0110	11204419	96.89434449000	933.642000000000	933.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 110	FHOLD	Cocos (Keeling) Islands Shire	Plan
0111	11204420	96.89436766000	935.204000000000	935.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 111	FHOLD	Cocos (Keeling) Islands Shire	Plan
0112	11204421	96.89438997000	1030.035000000000	1030.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 112	FHOLD	Cocos (Keeling) Islands Shire	Plan
0113	11204422	96.89471383000	1014.720000000000	1014.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 113	FHOLD	Cocos (Keeling) Islands Shire	Plan
0114	11204423	96.89474186000	904.147000000000	904.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 114	FHOLD	Cocos (Keeling) Islands Shire	Plan
0115	11204424	96.89475863000	890.531000000000	890.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 115	FHOLD	Cocos (Keeling) Islands Shire	Plan
0116	11204425	96.89478265000	917.527000000000	917.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 116	FHOLD	Cocos (Keeling) Islands Shire	Plan
0117	11204426	96.89480278000	986.220000000000	986.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 117	FHOLD	Cocos (Keeling) Islands Shire	Plan
0118	11204427	96.89482207000	903.244000000000	903.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 118	FHOLD	Cocos (Keeling) Islands Shire	Plan
0119	11204428	96.89484516000	913.076000000000	913.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 119	FHOLD	Cocos (Keeling) Islands Shire	Plan
0120	11204429	96.89486717000	930.931000000000	931.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 120	FHOLD	Cocos (Keeling) Islands Shire	Plan
0121	11204430	96.89491272000	955.731000000000	955.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 121	FHOLD	Cocos (Keeling) Islands Shire	Plan
0122	11204431	96.89493094000	920.548000000000	920.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 122	FHOLD	Cocos (Keeling) Islands Shire	Plan
0123	11204432	96.89495511000	911.582000000000	911.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 123	FHOLD	Cocos (Keeling) Islands Shire	Plan
0124	11204433	96.89498123000	1026.896000000000	1026.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018504 124	FHOLD	Cocos (Keeling) Islands Shire	Plan
0125	11204492	96.89546499000	784.888000000000	784.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 125	FHOLD	Cocos (Keeling) Islands Shire	Plan
0126	11204493	96.89560959000	800.010000000000	799.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 126	FHOLD	Cocos (Keeling) Islands Shire	Plan
0127	11204494	96.89574569000	713.291000000000	713.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 127	FHOLD	Cocos (Keeling) Islands Shire	Plan
0128	11204495	96.89587964000	755.984000000000	755.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 128	FHOLD	Cocos (Keeling) Islands Shire	Plan
0129	11204446	96.89578976000	720.727000000000	720.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 129	FHOLD	Cocos (Keeling) Islands Shire	Plan
0130	11204447	96.89580949000	638.880000000000	638.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 130	FHOLD	Cocos (Keeling) Islands Shire	Plan
0131	11204448	96.89583115000	693.412000000000	693.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 131	FHOLD	Cocos (Keeling) Islands Shire	Plan
0132	11204449	96.89585113000	690.933000000000	690.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 132	FHOLD	Cocos (Keeling) Islands Shire	Plan
0133	11204450	96.89589415000	687.520000000000	687.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 133	FHOLD	Cocos (Keeling) Islands Shire	Plan
0134	11204451	96.89591378000	634.365000000000	634.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 134	FHOLD	Cocos (Keeling) Islands Shire	Plan
0135	11204452	96.89593516000	685.415000000000	685.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 135	FHOLD	Cocos (Keeling) Islands Shire	Plan
0136	11204453	96.89595758000	671.623000000000	671.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 136	FHOLD	Cocos (Keeling) Islands Shire	Plan
0137	11204454	96.89597834000	654.562000000000	654.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 137	FHOLD	Cocos (Keeling) Islands Shire	Plan
0138	11204455	96.89599933000	679.427000000000	679.000000000000	25/09/2003	0000000												

LOTNO	PIN	CENTLONG	CALC_AREA	LEGAL_AREA	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	USAGE_CODE	DATE_RETIR	DATE_BOUND	PITYP	PIPARCEL	LOT_TYPE	MGR_NAME	TENURE	
0148	11204503	96.89623095000	668.569000000000	668.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 148	FHOLD	Cocos (Keeling) Islands Shire	Plan
0149	11204504	96.89626769000	712.200000000000	711.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 149	FHOLD	Cocos (Keeling) Islands Shire	Plan
0150	11204505	96.89628935000	665.688000000000	665.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 150	FHOLD	Cocos (Keeling) Islands Shire	Plan
0151	11204506	96.89631144000	702.132000000000	701.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 151	FHOLD	Cocos (Keeling) Islands Shire	Plan
0152	11204507	96.89633586000	733.009000000000	732.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 152	FHOLD	Cocos (Keeling) Islands Shire	Plan
0153	11204458	96.89622792000	743.459000000000	743.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 153	FHOLD	Cocos (Keeling) Islands Shire	Plan
0154	11204459	96.89624833000	701.932000000000	701.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 154	FHOLD	Cocos (Keeling) Islands Shire	Plan
0155	11204460	96.89626691000	709.707000000000	709.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 155	FHOLD	Cocos (Keeling) Islands Shire	Plan
0156	11204461	96.89628505000	763.690000000000	763.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 156	FHOLD	Cocos (Keeling) Islands Shire	Plan
0157	11204462	96.89632919000	728.367000000000	728.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 157	FHOLD	Cocos (Keeling) Islands Shire	Plan
0158	11204463	96.89635287000	678.586000000000	678.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 158	FHOLD	Cocos (Keeling) Islands Shire	Plan
0159	11204464	96.89637226000	682.243000000000	682.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 159	FHOLD	Cocos (Keeling) Islands Shire	Plan
0160	11204465	96.89639264000	684.058000000000	684.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 160	FHOLD	Cocos (Keeling) Islands Shire	Plan
0161	11204466	96.89641228000	688.834000000000	688.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 161	FHOLD	Cocos (Keeling) Islands Shire	Plan
0162	11204467	96.89643659000	702.739000000000	702.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 162	FHOLD	Cocos (Keeling) Islands Shire	Plan
0163	11204468	96.89645541000	678.716000000000	678.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 163	FHOLD	Cocos (Keeling) Islands Shire	Plan
0164	11204469	96.89647884000	754.412000000000	754.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 164	FHOLD	Cocos (Keeling) Islands Shire	Plan
0165	11204508	96.89652060000	686.569000000000	687.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 165	FHOLD	Cocos (Keeling) Islands Shire	Plan
0166	11204509	96.89654350000	670.008000000000	669.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 166	FHOLD	Cocos (Keeling) Islands Shire	Plan
0167	11204510	96.89656407000	694.982000000000	694.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 167	FHOLD	Cocos (Keeling) Islands Shire	Plan
0168	11204511	96.89658482000	671.695000000000	671.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 168	FHOLD	Cocos (Keeling) Islands Shire	Plan
0169	11204512	96.89660602000	676.980000000000	676.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 169	FHOLD	Cocos (Keeling) Islands Shire	Plan
0170	11204513	96.89662466000	694.379000000000	694.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 170	FHOLD	Cocos (Keeling) Islands Shire	Plan
0171	11204514	96.89664739000	665.425000000000	665.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 171	FHOLD	Cocos (Keeling) Islands Shire	Plan
0172	11204515	96.89666620000	721.573000000000	721.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 172	FHOLD	Cocos (Keeling) Islands Shire	Plan
0173	11204516	96.89670329000	695.715000000000	695.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 173	FHOLD	Cocos (Keeling) Islands Shire	Plan
0174	11204517	96.89672486000	660.854000000000	660.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 174	FHOLD	Cocos (Keeling) Islands Shire	Plan
0175	11204518	96.89674633000	678.116000000000	678.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 175	FHOLD	Cocos (Keeling) Islands Shire	Plan
0176	11204519	96.89677025000	766.091000000000	766.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 176	FHOLD	Cocos (Keeling) Islands Shire	Plan
0177	11204470	96.89687725000	742.512000000000	742.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 177	FHOLD	Cocos (Keeling) Islands Shire	Plan
0178	11204471	96.89689865000	686.474000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 178	FHOLD	Cocos (Keeling) Islands Shire	Plan
0179	11204472	96.89691922000	686.474000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 179	FHOLD	Cocos (Keeling) Islands Shire	Plan
0180	11204473	96.89693978000	686.469000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 180	FHOLD	Cocos (Keeling) Islands Shire	Plan
0181	11204474	96.89696034000	686.264000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 181	FHOLD	Cocos (Keeling) Islands Shire	Plan
0182	11204475	96.89698090000	686.468000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 182	FHOLD	Cocos (Keeling) Islands Shire	Plan
0183	11204476	96.89700146000	686.238000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 183	FHOLD	Cocos (Keeling) Islands Shire	Plan
0184	11204477	96.89702252000	720.069000000000	720.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 184	FHOLD	Cocos (Keeling) Islands Shire	Plan
0185	11204520	96.89706458000	693.938000000000	694.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 185	FHOLD	Cocos (Keeling) Islands Shire	Plan
0186	11204521	96.89706810000	742.568000000000	742.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 186	FHOLD	Cocos (Keeling) Islands Shire	Plan
0187	11204522	96.89710750000	686.306000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 187	FHOLD	Cocos (Keeling) Islands Shire	Plan
0188	11204523	96.89712806000	686.306000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 188	FHOLD	Cocos (Keeling) Islands Shire	Plan
0189	11204524	96.89714862000	686.282000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 189	FHOLD	Cocos (Keeling) Islands Shire	Plan
0190	11204525	96.89716918000	686.282000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 190	FHOLD	Cocos (Keeling) Islands Shire	Plan
0191	11204526	96.89718974000	686.305000000000	686.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 191	FHOLD	Cocos (Keeling) Islands Shire	Plan
0192	11204527	96.89721096000	692.213000000000	692.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 192	FHOLD	Cocos (Keeling) Islands Shire	Plan
0193	11204528	96.89724758000	710.118000000000	710.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 193	FHOLD	Cocos (Keeling) Islands Shire	Plan
0194	11204529	96.89726884000	710.144000000000	710.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 194	FHOLD	Cocos (Keeling) Islands Shire	Plan
0195	11204530	96.89729012000	710.179000000000	710.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 195	FHOLD	Cocos (Keeling) Islands Shire	Plan
0196	11204531	96.89731139000	710.155000000000	710.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018506 196	FHOLD	Cocos (Keeling) Islands Shire	Plan
0197	11204478	96.89737125000	681.986000000000	682.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 197	FHOLD	Cocos (Keeling) Islands Shire	Plan
0198	11204479	96.89739215000	682.237000000000	682.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 198	FHOLD	Cocos (Keeling) Islands Shire	Plan
0199	11204480	96.89741304000	681.996000000000	682.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 199	FHOLD	Cocos (Keeling) Islands Shire	Plan
0200	11204481	96.89743394000	682.236000000000	682.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 200	FHOLD	Cocos (Keeling) Islands Shire	Plan
0201	11204482	96.89745484000	681.988000000000	682.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 201	FHOLD	Cocos (Keeling) Islands Shire	Plan
0202	11204483	96.89747574000	682.213000000000	682.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 202	FHOLD	Cocos (Keeling) Islands Shire	Plan
0203	11204484	96.89749663000	682.013000000000	682.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P018505 203	FHOLD	Cocos (Keeling) Islands Shire	Plan
0204	11204485	96.89751748000	681.909000000000	682.000000000000	25/09/2003	00000000	KY											

LOTNO	PIN	CENTLONG	CALC_AREA	LEGAL_AREA	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	USAGE_CODE	DATE_RETIR	DATE_BOUND	PITYP	PIPARCEL	LOT_TYPE	MGR_NAME	TENURE	
0215	11204632	96.89677387000	681.811000000000	682.000000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019718 215	FHOLD	Cocos (Keeling) Islands Shire	Plan
0216	11203777	96.86326016000	2396.83500000000	2400.00000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018519 216	FHOLD	Cocos (Keeling) Islands Shire	Plan
0216	11204633	96.89675274000	679.75100000000	680.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019718 216	FHOLD	Cocos (Keeling) Islands Shire	Plan
0217	11203776	96.85077873000	33.98600000000	34.00000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018519 217	FHOLD	Cocos (Keeling) Islands Shire	Plan
0217	11204634	96.89673158000	678.36100000000	678.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019718 217	FHOLD	Cocos (Keeling) Islands Shire	Plan
0218	11204635	96.89671042000	676.09700000000	676.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019718 218	FHOLD	Cocos (Keeling) Islands Shire	Plan
0219	11203791	96.82252435000	41170.54700000000	41177.00000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018520 219	FHOLD	Cocos (Keeling) Islands Shire	Plan
0219	11204636	96.89668926000	674.65100000000	674.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019718 219	FHOLD	Cocos (Keeling) Islands Shire	Plan
0220	11203790	96.82264967000	27060.39300000000	27061.00000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018520 220	FHOLD	Cocos (Keeling) Islands Shire	Plan
0220	11204637	96.89615182000	687.60300000000	688.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019718 220	FHOLD	Cocos (Keeling) Islands Shire	Plan
0221	11204638	96.89617157000	691.26200000000	691.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019718 221	FHOLD	Cocos (Keeling) Islands Shire	Plan
0222	11204639	96.89619130000	695.19400000000	695.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019718 222	FHOLD	Cocos (Keeling) Islands Shire	Plan
0223	11203686	96.82028730000	59579.80400000000	59580.00000000000	23/09/2003	00000000	KY		M		1	00000000	00000000	1	P018517 223	FHOLD		Plan
0223	11204618	96.89556951000	3041.01100000000	3040.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019716 223	FHOLD	Cocos (Keeling) Islands Shire	Plan
0224	11203668	96.82059986000	60955.77900000000	60964.00000000000	23/09/2003	00000000	KY		M		1	00000000	00000000	1	D084545 224	FHOLD	Cocos (Keeling) Islands Shire	Diagram
0224	11204617	96.89535361000	56.84100000000	57.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019716 224	FHOLD	Cocos (Keeling) Islands Shire	Plan
0225	11203673	96.81861866000	54180.18100000000	52700.00000000000	23/09/2003	00000000	KY		M		1	00000000	00000000	1	P018516 225	FHOLD	Cocos (Keeling) Islands Shire	Plan
0225	11204586	96.89542664000	4658.59900000000	4657.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019713 225	FHOLD	Cocos (Keeling) Islands Shire	Plan
0226	11203768	96.82804302000	149.55200000000	150.00000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018518 226	FHOLD	Cocos (Keeling) Islands Shire	Plan
0226	11203769	96.82814729000	2061.69200000000	2250.00000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018518 226	FHOLD	Cocos (Keeling) Islands Shire	Plan
0226	11204588	96.89555269000	441.53200000000	441.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019713 226	FHOLD	Cocos (Keeling) Islands Shire	Plan
0227	11203647	96.82947999000	21015.55600000000	21016.00000000000	23/09/2003	00000000	KY		M		1	00000000	00000000	1	D084542 227	FHOLD	Cocos (Keeling) Islands Shire	Diagram
0227	11204587	96.89529167000	821.92000000000	822.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019713 227	FHOLD	Cocos (Keeling) Islands Shire	Plan
0228	11203782	96.85239723000	71.99900000000	72.00000000000	24/09/2003	00000000	KY		M		1	00000000	00000000	1	P018519 228	FHOLD	Cocos (Keeling) Islands Shire	Plan
0228	11204589	96.89532175000	2660.03500000000	2659.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019713 228	FHOLD	Cocos (Keeling) Islands Shire	Plan
0229	11204590	96.89515235000	914.69900000000	916.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019713 229	FHOLD	Cocos (Keeling) Islands Shire	Plan
0230	1294099	96.82700690500	18182.12900000000	18182.00000000000	28/07/1999	28/07/1999	KY	N	M		1	00000000	29/07/1999	1	D087096 230	FHOLD		Diagram
0230	11204591	96.89516216000	5153.51200000000	5153.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019713 230	FHOLD	Cocos (Keeling) Islands Shire	Plan
0231	11204592	96.89528223000	1201.29300000000	1201.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019713 231	FHOLD	Cocos (Keeling) Islands Shire	Plan
0232	11204598	96.89403772000	3428.14000000000	3428.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 232	FHOLD	Cocos (Keeling) Islands Shire	Plan
0233	11204578	96.89372961260	2449.42400000000	2449.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019712 233	FHOLD		Plan
0234	11204616	96.89502448000	4196.15400000000	4195.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019716 234	FHOLD	Cocos (Keeling) Islands Shire	Plan
0236	11204624	96.89769386000	128.76800000000	129.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019717 236	FHOLD	Cocos (Keeling) Islands Shire	Plan
0237	11204595	96.89424616000	3467.87000000000	3468.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019714 237	FHOLD	Cocos (Keeling) Islands Shire	Plan
0239	11204644	96.89355747000	1151.38200000000	1151.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019940 239	FHOLD		Plan
0240	11204606	96.89386765000	648.11500000000	648.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 240	FHOLD	Cocos (Keeling) Islands Shire	Plan
0241	11204607	96.89406245000	357.20800000000	357.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 241	FHOLD	Cocos (Keeling) Islands Shire	Plan
0242	11204642	96.89379369000	2489.46800000000	2500.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019940 242	FHOLD	Cocos (Keeling) Islands Shire	Plan
0243	11204609	96.89394705000	1093.97600000000	1094.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 243	FHOLD	Cocos (Keeling) Islands Shire	Plan
0244	11204611	96.89407196000	59.23200000000	59.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 244	FHOLD		Plan
0245	11204610	96.89409203000	1047.10500000000	1047.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 245	FHOLD	Cocos (Keeling) Islands Shire	Plan
0246	11204548	96.89390796000	254.52300000000	255.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019712 246	FHOLD	Cocos (Keeling) Islands Shire	Plan
0247	11204600	96.89440720000	669.37100000000	669.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 247	FHOLD	Cocos (Keeling) Islands Shire	Plan
0248	11204601	96.89470356000	1526.82200000000	1527.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 248	FHOLD	Cocos (Keeling) Islands Shire	Plan
0249	11204604	96.89428758000	466.61800000000	467.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 249	FHOLD	Cocos (Keeling) Islands Shire	Plan
0250	11204603	96.89426972000	292.32200000000	292.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 250	FHOLD	Cocos (Keeling) Islands Shire	Plan
0251	11204605	96.89448284000	393.80700000000	394.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 251	FHOLD	Cocos (Keeling) Islands Shire	Plan
0253	11204602	96.89441279000	909.09000000000	909.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019715 253	FHOLD	Cocos (Keeling) Islands Shire	Plan
0254	11204673	96.89250107000	9467.41100000000	9468.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019942 254	FHOLD	Cocos (Keeling) Islands Shire	Plan
0255	11204408	96.89339516000	1702.69300000000	1703.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	D084544 255	FHOLD	Cocos (Keeling) Islands Shire	Diagram
0256	11204643	96.89362734000	3215.40300000000	3215.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019940 256	FHOLD	Cocos (Keeling) Islands Shire	Plan
0256	11204671	96.89662308000	8936.22500000000	8933.00000000000	25/09/2003	00000000	KY		M		1	00000000	00000000	1	P019941 256	FHOLD	Cocos (Keeling) Islands Shire	Plan
	11203674	96.82090890000	3620.27000000000	3620.00000000000	23/09/2003	00000000	KY		M		13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11203687	96.82173024000	28465.58700000000	28466.00000000000	23/09/2003	00000000	KY		M		13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11203770	96.82105934000	348.98700000000	349.00000000000	24/09/2003	00000000	KY		M		13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11203771	96.82284687000	5727.91900000000	5728.00000000000	24/09/2003	00000000	KY		M		13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11203772	96.82737651000	6954.05800000000	6954.00000000000	24/09/2003	00000000	KY		M		13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11203773	96.82811693000	759.11300000000															

LOTNO	PIN	CENTLONG	CALC_AREA	LEGAL_AREA	DATE_CREAT	DATE_MODIF	LEGA_DERIV	AREA_INDIC	CENTROID_C	USAGE_CODE	DATE_RETIR	DATE_BOUND	PITYP	PIPARCEL	LOT_TYPE	MGR_NAME	TENURE
	11203809	96.82118971000	8785.068000000000	8785.000000000000	24/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11203810	96.82092316000	3520.921000000000	3521.000000000000	24/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11203811	96.82074904000	31309.950000000000	31310.000000000000	24/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204436	96.89459205000	1933.015000000000	1933.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204546	96.89738721000	1237.717000000000	1238.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204550	96.89419298000	906.228000000000	906.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204551	96.89419540000	2260.522000000000	2260.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204552	96.90029437000	2387.412000000000	2391.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204553	96.90179289000	1979.837000000000	1980.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204554	96.89693933000	12246.867000000000	12247.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204555	96.89635925000	8339.673000000000	8340.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204556	96.89516737000	2541.746000000000	2542.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204557	96.89534941000	554.451000000000	554.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204558	96.89566927000	647.695000000000	648.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204559	96.89602799000	1046.963000000000	1047.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204560	96.89646824000	1109.525000000000	1110.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204561	96.89691573000	2977.630000000000	2978.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204562	96.89963375000	7065.192000000000	7065.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204563	96.89738721000	1237.717000000000	1238.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204564	96.89585035000	973.238000000000	973.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204565	96.89528075000	973.932000000000	974.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204566	96.89667742000	1860.242000000000	1860.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204567	96.89719932000	1240.203000000000	1240.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204568	96.89513251000	1860.763000000000	1861.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204569	96.89570209000	1861.069000000000	1861.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204570	96.89769854000	1488.239000000000	1488.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204571	96.89451793000	625.936000000000	626.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204572	96.89490206000	2047.470000000000	2047.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204573	96.89556129000	1790.235000000000	1790.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204574	96.89649320000	1835.606000000000	1836.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204575	96.89701073000	1223.521000000000	1224.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204576	96.89387744000	8224.101000000000	8224.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204577	96.89599889000	1102.377000000000	1102.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204596	96.89206341000	12667.047000000000	12665.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204612	96.89380323000	528.082000000000	528.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204613	96.89419293000	906.228000000000	906.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204614	96.89430046000	1914.704000000000	1915.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204666	96.89958962000	9552.739000000000	9553.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204667	96.89616511000	1089.126000000000	1089.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204668	96.89711027000	1354.453000000000	1354.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204669	96.90055601000	1839.497000000000	1839.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204670	96.90309778000	14957.378000000000	14957.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204674	96.89470855000	1882.724000000000	1883.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204675	96.89367260000	1994.710000000000	1995.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road
	11204676	96.89721384000	10116.592000000000	10117.000000000000	25/09/2003	00000000	KY		M	13	00000000	00000000	3	P ROAD	ROAD	Cocos (Keeling) Islands Shire	Road

A black rectangular graphic with the word "Chapter" in a small, white, sans-serif font at the top left, and a large, white, serif number "7" below it, centered horizontally.

Appendix 4: Memorandum of Arrangement – Particulars of Services

Memorandum of Arrangement – Particulars of Services

" To develop a Geographic Information System (GIS) for Cocos (Keeling) Islands. GA's proposals, dated 17 November 1998 and 6 May 1999 for the development of the GIS, form part of this MOA. (Attachment 1)

The Services include the provision of detailed orthophotography and feature datasets based on a two stage approach as follows:

Stage 1.

- ☐ The creation of a sample of the orthophotography similar to Christmas Island GIS (CIGIS) resolution standards;
- ☐ The retrieval and integration of available line and point data held by AUSLIG, the WA Department of Land Administration (DOLA), or the Commonwealth Environmental Resource Information Network covering Cocos (Keeling) Islands;
- ☐ The installation and demonstration of the Stage 1 version of the Cocos (Keeling) Islands GIS (CKIGIS) on the Territories Office GIS PC; and
- ☐ The provision of sample colour maps, posters and an interim CD backup.

Stage 2.

- ☐ The creation of the remainder of the orthophotography;
- ☐ The integration of ground audit data with DOLA cadastral boundaries;
- ☐ The integration to the extent possible of existing datasets that come to light through the process of carrying out Stage 1;
- ☐ The documentation of the system to the CIGIS standards;
- ☐ The publishing of the whole system on CD-ROM and delivery of five copies to the Department; and
- ☐ The installation and demonstration to the Contact Officer of the GIS at the Department's PC GIS location

The Timetable for the Services is:

Milestone	Due Date
Stage 1 completed	2 months from execution of MOU
Stage 2 completed	3 months after acceptance of Stage 1

A black rectangular graphic with the word "Chapter" in a small, white, sans-serif font at the top left, and a large, white, serif number "8" centered below it.

Chapter 8

Appendix 5: Data Licensing and Agreements

Data Licensing and Agreements

The collection of nearly all the data sets on the four CD-ROMs comprising the Cocos GIS was commissioned by the Territories Office (Commonwealth Government) under a series of consultancy arrangements with various data suppliers over the past fifteen years. An exception is the Environment Australia Marine Environment data layer. The Cocos GIS is an assembly of multiple data collections (each of which may comprise some man-years of work) into a single easy-to-use integrated system and so represents a valuable Commonwealth asset.

Commonwealth Cocos GIS data licence

The copyright for all the data in the Cocos GIS resides with the Commonwealth (see data acknowledgments on page 6). Legal advice to Geoscience Australia and Territories Office recommends the protection of the Commonwealth's interests in any distribution of the Cocos Islands GIS by way of a licence agreement. Following are a one-page licence agreement and an associated covering letter. A key purpose of the Cocos GIS licensing is that the user organisation signifies their acceptance that the data is not error free. This licence relates to all the data except the original content of the Environment Australia (EA) marine data for which a separate EA licence must be used. To simplify usage of the Cocos GIS, the EA data has been moved to CD-ROM 4, which is not included in the standard Cocos GIS distribution.

Risks of not licensing the data include: -

- allegations of liability for damages as a result of errors in the data,
- commercialisation of the data,
- proliferation of faceless data variants,
- inequitable government support between competing businesses,
- perceived breaches of privacy, and
- potential future denial of access by the Commonwealth to the data.

Arguments against licensing include: -

- it may in some cases stultify legitimate and effective use of the data for public good purposes, and
- it introduces a cumbersome overhead for both the data supplier and the data user.

On receipt, this data should have been received with two copies of the license agreement. One original signed copy of the Commonwealth Cocos GIS data licence is to be retained by the licensee and one original signed copy is to be posted back. An electronic copy of the Commonwealth Cocos GIS data licence (for reference) is stored on the Cocos GIS CD-Rom #1 at directory '\document\licenses' in file 'cocogis_license.doc'.

A generic covering letter is also stored in this directory (file 'generic_licensecover.doc' and together the two documents comprise the licensing advice to each stakeholder. The covering letter should be edited to correctly describe the particular proposed licensee and two copies of both documents printed for packaging with the data. One original signed copy of the Commonwealth Christmas Island GIS data licence is to be retained by the licensee and one original signed copy is to be posted back.

The covering letter is only half a page. The Licence Terms are just over one page in length. It is important to retain this brevity. Experience indicates that long-winded licence agreements are often not read and their conditions are consequently at a greater risk of being ignored. Some users are put off using the data when there is a long and complex licence agreement to come to grips with. Consequently an important public-good benefit that might be delivered by the use of the data may never be realised.



Our Reference: CocosGIS2009

Contact: Mr. Shane Warnock

Tuesday, 4 August 2009.

Organisation name:
Organisation address:

Dear Sir/Madam,

Thank you for your request for Territories Office to supply *Organisation name* with a copy of the Cocos (Keeling) Islands Geographic Information System ('Licensed Data'), which is in the package accompanying this letter. Territories Office offers *Organisation name* a right to use the Data in accordance with the Licence Terms enclosed with this letter. A copy of the Licence Terms is also inside the package.

BEFORE OPENING THE PACKAGE, all of the Licence Terms should be read and accepted by the User, or an authorised representative of the User. Acceptance of the Licence Terms is indicated by the User's authorised signature in the space provided below on both copies of this letter, and returning one copy to Territories Office. A fee waiver is granted for Use by *Private Organisation*, however such Use is limited to work for the Commonwealth. Use of the data by *Private Organisation* for other clients requires a separate negotiation. OR A fee waiver is granted for Use by *Government Organisation*, however provision of new data back to the Cocos (Keeling) Islands GIS pool by *Government Organisation* is expected in return.

If the Data is used, then acceptance of the Licence Terms is deemed to have occurred even if the acceptance procedure described in the preceding paragraph has not been followed. If the Licence Terms are unacceptable, then the package, together with both copies of this letter should be immediately returned to the Territories Office and the Data must not be Used by any person for any purpose. This data licence is not intended to affect the terms of, or any obligation of the parties under any separate services agreement already in place between the Attorney-General's Department and *Organisation name*.

Territories Office grants permission for *Organisation name* to freely distribute hardcopy products or hardcopy digital equivalents (eg bitmap images or powerpoint slides) created from the licensed Cocos (Keeling) Islands GIS.

Yours Faithfully

Mr. Keith Porritt
Geoscience Australia
representing the Commonwealth of Australia
for Territories Office
Date:

.....
User / User's Authorised Representative
Name:

Position in User's Organisation:

Date:

TERMS OF A LICENCE CONCERNING DIGITAL DATA
from
the Territories Office of the Commonwealth Department of Transport and Regional Services
('Licence')

IMPORTANT NOTES

'Territories Office' means the Commonwealth of Australia represented by the Territories Office of the Commonwealth Department of Transport and Regional Services.

'Data' means the Licensed Data, including any copy, reproduction, modification, adaptation, digital manipulation or graphical representation of the Licensed Data made by the User in any form, including electronic or hard-copy form.

'Fee' means the fee payable to Territories Office for the right to use the data in accordance with this Licence.

'including' is not a word of limitation.

'Licensed Data' means Territories Office's data, including metadata and documentation, supplied by Territories Office under the letter from Territories Office to which these Licence Terms are attached.

'Use' as a noun means any use or disclosure, and, as a verb, has an equivalent meaning.

'User' means any person who Uses the Data, or, if the Use is in connection with the person's employment, the person's employer.

The Data is intended for use only by people who have professional knowledge of the use and application of geographic information system (GIS) data.

TERMS

The User:

- (a) must pay the Fee to Territories Office in accordance with Territories Office's directions;
- (b) may, on a non-exclusive basis, use and disclose the Data only for the User's internal business purposes carried out in person by its employees, or by the User's consultants exclusively for work on the User's internal business, or, if the User is an individual, the User's personal use (**'Purpose'**);
- (c) may make back-up copies of the Data; and
- (d) must not, except as provided under **paragraph (b)**, distribute or transmit the whole or any part of the Data, whether alone or in combination with any other data or information in any form, to any person.

Nothing in this Licence affects ownership of any person's rights in the Data.

WARRANTY

To the full extent allowed by the applicable law Territories Office excludes from this Licence all warranties, express or implied, including any warranty of fitness of the Data for any purpose. If Territories Office breaches any warranty that, by the applicable law, cannot be excluded, then Territories Office's sole liability to the User for that breach will be, at its choice, to resupply the Data without additional charge to the User or refund the Fee.

ASSUMPTION OF RISK

The User assumes sole risk and responsibility for its Use of the Data.

Territories Office does not warrant or make any representations:

- (a) that the Data will be complete, accurate, reliable or error free;
- (b) as to the accuracy, reliability or content of any information obtained from Using the Data.

Error! Unknown document property name.
Data Licence

Territories Office disclaims any and all liability for any injury, damage or loss (including, but not limited to, economic loss) howsoever arising out of any Use of the Data.

Territories Office is not responsible for any failure to carry out its obligations under this Licence if that failure is for any cause beyond Territories Office's reasonable control.

TERMINATION

Territories Office may terminate this Licence immediately by written notice if the User breaches this Licence or for convenience on 30 days notice.

When this Licence ends the User must return or destroy all copies of the Data in its possession or under its control.

APPLICABLE LAW

This Licence will be interpreted according to the laws of the Australian Capital Territory, Australia.

ALTERATION

This Licence be altered only in writing signed by Territories Office and an authorised representative of the User.

WAIVER

Waiver of any provision or right under this Licence:

- (a) must be in writing signed by the party entitled to the benefit of that provision or right; and
- (b) is effective only to the extent set out in the written waiver.

ENTIRE AGREEMENT

This Licence:

- (a) constitutes the entire agreement between Territories Office and the User as to its subject matter; and
- (b) in relation to that subject matter, supersedes any prior understanding or agreement between Territories Office and the User and any prior condition, warranty, indemnity or representation imposed, given or made by Territories Office or the User.

UN CONVENTION

Territories Office and the User agree that the provisions of the United Nations Convention on Contracts for the International Sale of Goods are expressly excluded from this Agreement.

DISPUTE RESOLUTION

The parties (meaning Territories Office and the User) must attempt to resolve any dispute or difference that may arise between them in relation to this Agreement (**'Dispute'**) through amicable consultation, based on principles of mutual benefit, equality, cooperation and trust. Accordingly, a party must not start arbitration or court proceedings (except proceedings seeking interlocutory relief) about a Dispute unless it has complied with the following **paragraphs (a) - (e)**:

- (a) A party claiming that a Dispute has arisen must notify the other party to the Dispute giving details of the Dispute (**'Notification'**);
- (b) On receipt of a Notification each party must negotiate in good faith to resolve the Dispute and, if necessary to resolve the Dispute, involve the Chief Executive Officers

- or other senior officers of the parties directly in those negotiations;
- (c) If the Dispute involves technical matters and has not been resolved by negotiations under paragraph (b) within a reasonable time, then the parties will refer the Dispute for determination by an independent expert agreed by the parties in the technical field the subject of the Dispute;
 - (d) If the Dispute is not resolved under **paragraph (b) or (c)** within thirty days (or longer period agreed between the parties), and if the User's principal address is in Australia, then the parties must refer the Dispute for mediation by the Australian Commercial Dispute Centre Limited ('ACDC') for resolution in accordance with the Mediation Rules of the ACDC;
 - (e) If the Dispute is not resolved under **paragraph (b) or (c)** within thirty days (or longer period agreed between the parties), and if the User's principal address is not in Australia, then the parties must refer the Dispute to arbitration for resolution in accordance with the UNCITRAL Model Law on International Commercial Arbitration. Notwithstanding any provision of the UNCITRAL rules to the contrary, the parties agree that:
 - (i) the number of arbitrators shall be one;
 - (ii) the place of arbitration will be Canberra, Australian Capital Territory, Australia;
 - (iii) all proceedings will be conducted in the English Language;
 - (iv) the applicable law is the law of the Australian Capital Territory; and
 - (v) the determination of the arbitrator shall be final and binding on the parties and the costs of the arbitration shall be borne and paid for as the arbitrator directs.

- (f) If the Dispute is not resolved under **paragraph (d) or (e)** within sixty days after referral (or longer period agreed between the parties) either party may initiate proceedings in a court

FURTHER INFORMATION

Historical information may be contained in the Data, metadata or documentation of the Data. If the User requires further information about the Data or its history, then contact

Territories Office Perth,
Department of Transport and Regional Services.
Ph: (08) 9225-1400
Fax: (08) 9225-1429

License for use of Satellite Imagery.

Copied here is the text file 'MULTIPLE_ORGANIZATION.TXT' which contains the license agreement for the use of the satellite imagery bundled with this manual. Please read before continuing.

Also here is a copy of the table of registered users, found in the 'registered_users.pdf'.

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the image is downloaded at the same resolution as displayed on the screen.

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Multiple Organization
End User License Agreement

REGISTERED USERS

	Registered Organisations
1	Department of Transport and Regional Services
2	Cocos (Keeling) Islands Shire
3	Geoscience Australia
4	WA Department of Industry and Resources
5	WA Department of Land Administration
6	WA Department for Planning and Infrastructure
7	Cocos Island Co-operative Society Ltd
8	Cocos Dive
9	WA Department of Education and Training
10	Cocos (Keeling) Islands Tourism Association
11	WA Department of Fisheries
12	WA Department of Environment
13	Department of Finance and Administration
14	Department of Environment and Heritage
15	Gutteridge Haskins & Davey Pty Ltd (GHD)

Table 5: Registered users of the satellite imagery bundled with this manual.

Environment Australia Marine Data licence.

For each organisation the current Cocos GIS cd-rom #4 is to be passed to, the following licence agreement with Environment Australia (EA) need first be signed by a representative of the organisation. This license specifically relates to the marine data sourced from EA. The EA system refers to this data set as the ' Whelans Cocos GIS (1998)'.

An electronic copy of the EA data licence is stored on the Cocos GIS CD-Rom #1 at directory '\document\licenses' in file 'ea_marine_data_licence.doc'. Details for the licensee organisation need be entered in the following fields on the document:-

Name/Title:	[enter your – Name]
Company/Organisation:	[enter your – Organisation]
Address:	[enter your – Address]
Telephone:	[enter your – Telephone]
Facsimile:	[enter your – Fax]
E-mail Address:	[enter your – Email]
The Data will be used by the Licensee for:	[enter your – Data Use]

Licensees would generally need to fill the 'Data Use' item themselves. However, all the other items in the document could be edited in advance to correctly describe the particular proposed licensee and two copies printed for packaging with the data as per the advice in the covering letter.

One original signed copy of the EA agreement is to be retained by the licensee and one original signed copy is to be posted to:-

Mr. Keith Porritt
Geoscience Australia
GPO Box 378,
CANBERRA ACT 2601

in accordance with the current dispensation by Environment Australia for GA to distribute the revised Cocos GIS data on behalf of the Department of Transport and Regional Services, including the data for which Environment Australia is custodian.



Agreement for the Supply of Data

Important: The completed Schedule and Licence Conditions set out below will constitute a legal agreement between the Commonwealth of Australia (“the Commonwealth”) and you (“the Licensee”) in relation to the data. If you agree with the Conditions, please tick the 'Agreed' box, sign and date beside it and ensure your licensee details are filled out below.

If you are entering into this agreement on behalf of a company or organisation, you warrant that you have the authority to do so.

Agreed

Not
Agreed

The Schedule

Date:

Commonwealth

The Commonwealth of Australia is represented by the Department of the Environment and Heritage. The contact details are:

Name/Title: Gavan Thomas, Project Officer

Address: Environmental Resource Information Network (ERIN)
Environment Australia
GPO Box 787 Canberra ACT 2601

Telephone: 02 6274 2736

Facsimile: 02 6274 1333

Email Address: gavan.thomas@ea.gov.au

Licensee

Name/Title: *[enter your – Name]*

Company/Organisation: *[enter your – Organisation]*

Address: *[enter your – Address]*

Telephone: *[enter your – Telephone]*

Facsimile: *[enter your – Fax]*

Email Address: *[enter your – Email]*

The Data

The data is referred to as the 'Marine Environment' data in the GA-DoTaRS Cocos GIS. The ERIN system refers to the data as the 'Whelans Cocos GIS (1998)'.

This dataset contains point, line and polygon data of the marine environment surrounding the Cocos (Keeling) Islands. It includes coastlines, bathymetric contours, coral outcrops and other features. Coverage extends to the whole of Cocos Keeling Islands. The themes have been grouped by GA into the following shapefiles so as to increase the ease of use of the data:

- Infralin.shp - Infrastructure lines
- Boundlin.shp - Boundary lines
- Marinelin.shp - Marine lines
- Surveylin.shp - Survey lines
- Islandlin.shp - Island outlines
- Marineply.shp - Marine polygon
- Islandply.shp - Island polygon
- Boundply.shp - Boundary polygon

These shapefiles retain all spatial and non spatial data as supplied to GA.

Data are provided in shape file format and also as ERIN originally supplied in a zip of ARC export files. Both formats are supplied on CD-ROM No.1 of the Cocos GIS produced in 2000 by GA for Territories Office. Accompanying metadata for the data is also supplied.

Contributors

Item: 'Marine Environment' data referred to by ERIN as the 'Whelans Cocos GIS (1998)'.

Contributor: GA

Data was received by GA from ERIN as ArcInfo Export files. GA converted the data to shape file format. GA projected the data to CKIG92 with a coordinate shift to match the Cadastre (assuming it was received as UTM Zone 47 WGS72).

The many individual layers were checked and those of similar themes were then grouped to provide a smaller set of layers, thus making the data more useable.

The North Keeling atoll was translated and warped to more accurately match the orthophotography. Line themes were built into polygons to allow areas to be queried.

Additional Conditions: The I.P. for work done on the data by GA is not covered in this licence agreement between your organisation and EA. A separate agreement with

the Commonwealth may apply to this particular component of I.P. in conjunction with the remainder of the GA-DoTaRS Cocos GIS data.

Use

The Data will be used by the Licensee for:

[enter your – Data Use]

Licence Conditions

1 Interpretation

1.1 In these Conditions, unless the contrary intention appears:

“Commercialise” in respect of the Data or a product or service derived from the Data, includes distributing, giving away, selling, letting for hire, or by way of trade, offering or exposing for sale or hire any article embodying the Data or any product or service derived from or incorporating the Data;

“Contributor” means:

I. (in relation to the Commonwealth) an agency of the Commonwealth which is custodian of a particular item of Data on behalf of the Commonwealth; or

II. third party contributors

identified in the Schedule to this Agreement as having provided particular items of Data which are the subject of this Licence Agreement;

“Data” means the data to which access is made available, and which is listed in the Schedule and includes any Enhancements to the Data;

“Enhancement”, in relation to the Data, includes any modification, adaptation or redevelopment of the Data, any work derived from the Data, machine readable representations of any of the foregoing and any associated material intended at the time of its creation to be used primarily in conjunction with the Data;

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“Licence” means the licence referred to in Condition 3.

2 Duration

2.1 The Licence commences on the date of the Agreement as set out in the Schedule, and continues in force for a period of five (5) years unless terminated in accordance with Condition 10.1.

3 Licence Conditions

3.1 The Commonwealth grants to the Licensee, a royalty-free, non-exclusive, non-transferable licence to use, reproduce, make Enhancements to and print the Data, and combine it with other data held by the Licensee.

3.2 The Licence is limited to personal use of the Data or use within the Licensee's organisation only.

3.3 The Licensee shall not Commercialise the Data or any product or service derived from the Data.

3.4 The Commonwealth warrants that the grant of the Licence does not infringe the Intellectual Property rights of any person and that it is entitled to grant the licence in relation to the data of third party Contributors.

3.5 Data items identified in the Schedule as having been provided by individual Contributors are subject to the additional conditions (if any) set out in the Schedule. In the event of any conflict between the terms of the Licence Conditions and any additional condition set out in the Schedule, the terms of the Licence Conditions shall take precedence.

4 Intellectual Property Rights Reserved

4.1 All rights not expressly granted to the Licensee under Condition 3 are reserved.

4.2 The Licensee acknowledges that the Data is a special, unique and valuable product in which the copyright and other applicable Intellectual Property rights vest in the Contributors as listed in the Schedule.

4.3 The Contributors of items of Data retain ownership of that Data, whether in its original form or as modified by the Licensee and of the Intellectual Property rights therein.

4.4 Intellectual Property in any Enhancement to the Data vests, upon its creation, in the Contributor named in the Schedule in relation to the relevant item of Data.

5 Custody of the Data

5.1 The Licensee shall maintain the Data in safe custody.

5.2 The Licensee shall take all reasonable steps to ensure that any person given access to the Data is aware of these Conditions and uses the Data only in accordance with this Agreement.

6 Precautions

6.1 THE COMMONWEALTH CANNOT GUARANTEE THAT THE DATA, INCLUDING ANY THIRD PARTY DATA, IS FREE FROM ERRORS, AND DOES NOT WARRANT THE QUALITY, PERFORMANCE OR SUITABILITY OF THE DATA FOR ANY PURPOSE.

6.2 THE LICENSEE ASSUMES RESPONSIBILITY FOR SELECTION OF THE DATA TO ACHIEVE ANY INTENDED RESULTS, AND FOR ITS USE.

6.3 THE LICENSEE ASSUMES RESPONSIBILITY FOR THE INTERPRETATION OF ANY RESULTS OBTAINED FROM USE OF THE DATA, AND MUST EXERCISE ALL APPROPRIATE PRECAUTIONS BEFORE PLACING RELIANCE ON THOSE RESULTS.

7 Release and Indemnity

7.1 THE LICENSEE:

- A) RELEASES THE COMMONWEALTH, ITS OFFICERS, EMPLOYEES AND AGENTS AND ALL CONTRIBUTORS IN RESPECT OF ALL LIABILITY FOR LOSS, DAMAGE OR INJURY, WHICH MAY BE SUFFERED BY THE LICENSEE OR ARISING FROM THE LICENSEE'S USE OF THE DATA; AND
- B) INDEMNIFIES THE COMMONWEALTH, ITS OFFICERS, EMPLOYEES AND AGENTS AND ALL CONTRIBUTORS IN RESPECT OF ALL LIABILITY FOR LOSS, DAMAGE OR INJURY, WHICH MAY BE SUFFERED BY ANY PERSON ARISING FROM THAT PERSON'S USE OF THE DATA.

8 Retention of Notices

8.1 The Licensee shall not remove, obscure or interfere with any copyright notice, trademark, warning or disclaimer incorporated in the Data.

9. Commercial Exploitation

9.1 The licensee shall not Commercialise the Data or any product or service derived from incorporating the Data without the prior written consent of the relevant Contributor(s).

9.2 A Contributor may grant or refuse consent in their absolute discretion and subject to any condition whatsoever, including payment of royalties.

9.3 Any of the Data or any product or service derived from incorporating the Data which is Commercialised in accordance with this clause, must be accompanied by or incorporate an appropriate acknowledgment of the Contributor as the source of the Data in the terms specified in the Schedule.

10 Termination

10.1 If the Licensee breaches any of these Conditions, the Commonwealth may terminate the Agreement immediately by notice in writing to the Licensee.

10.2 The termination of the Agreement under Condition 10.1 shall be without prejudice to the rights of either party accrued under the Agreement prior to termination.

10.3 The Licensee shall cease using the Data for any purpose from the date of termination of the Agreement and shall return the Data and any copies made of it to the Commonwealth within 30 days of the date of termination.

11 Entire Agreement

11.1 The Agreement supersedes all prior agreements and understandings between the parties relating to the Data and Data Products and constitutes the entire agreement between the parties.

12 Variation

12.1 No addition to or modification of any provision of the Agreement shall be binding unless in writing signed by both parties.

13 Assignment

13.1 The rights granted under the Licence are restricted solely to the Licensee and may not be assigned, transferred or sublicensed without the prior written consent of the Commonwealth.

13.2 The Commonwealth may grant or refuse consent in its absolute discretion and subject to any condition whatsoever.

14 Law

14.1 The Agreement shall be governed by and construed in accordance with the laws of the Australian Capital Territory.

15 Waiver

15.1 No forbearance, delay or indulgence by a party in enforcing the provisions of the Agreement shall prejudice or restrict the rights of that party, nor shall waiver of those rights operate as a waiver of any subsequent breach.

16 Severance

16.1 Any reading down or severance of a particular provision does not affect the remaining provisions of the Agreement.

17 Application

17.1 Where the Licensee is an agency of the Commonwealth of Australia, such that it is not permitted to enter into a binding legal agreement except as the Commonwealth, then the conditions shall be read as merely giving rise to an arrangement between the Department of the Environment and Heritage and the Licensee.

Territories Office—DoLA Arrangement for cadastre

Through Territories Office, the Commonwealth pays the Western Australian Department of Lands Administration (DoLA) to maintain the cadastre as passed from Australian Land Information Group (AUSLIG) in 1992.

Chapter 9

Appendix 6: Land Use Plan 1992 Data Documentation

Note: This land use plan was converted to digital form by GA by a scan/OCR process from a hard copy original: formatting will vary slightly and some errors may exist.

Cocos (Keeling) Islands

Geographic Information System Database
Accompanying Documentation



Cocos (Keeling) Islands

Geographic Information System Database Accompanying Documentation

Prepared by P. Kendall

Environmental Planning Unit
National Capital Planning Authority

February 1992

BACKGROUND

The National Capital Planning Authority, between November 1991 and March 1992, assisted the Commonwealth Department of Arts, Sport, Environment, Tourism and Territories in preparing a draft plan for the Cocos (Keeling) Islands. As part of the planning study, a geographic information system (GIS) database was established in order to prepare base and thematic maps and to enable the production of high quality figures to illustrate the planning report and to present the plans for public consultation.

The database contains many layers of environmental and planning information and has a range of potential uses beyond the planning exercise. DASETT subsequently briefed the NCPA to carry out some additional work to adapt the database for its ongoing purposes and to make the database available through the Department's ERIN computer network.

The GIS database was created using the software package pc ARC/INFO and can be readily translated for use on other ARC/INFO hardware platforms and under other GIS software systems. The brief required the provision of files in ARC/INFO export format and in 20 metre grid format, both on floppy disk media.

It is currently proposed that data layers will be added to the database when these become available from the Australian Survey and Land Information Group (AUSLIG). In particular, this additional data will include cadastral information which can replace the temporary cadastral covers prepared for the planning study. Other data layers should complement those currently in the database.

This documentation explains the general features of and structure and content of the database, together with some notes to assist in its future use through ERIN.

GENERAL FEATURES OF THE DATABASE

The database consists of 48 covers, 11 of which are simple base covers used for building more complex thematic maps and for defining map extents when using ARCPLOT. A further 6 covers are used mainly as the foundations for adding details such as topography, cadastral boundaries, roads and utilities to thematic maps. The remaining covers comprise 14 covers providing 11 resource map layers and 17 covers providing four land use and planning layers.

So as to provide flexibility in the preparation of map compositions at different scales and showing different features, the land use and planning layers each consist of separate covers for each of the main islands or island groups (ie West Island, Home Island, South Island, the small islands between South and Home Islands, Direction/Horsburgh Islands and North Keeling). Not all islands are represented in each data layer. This was so particularly where there were no features to show on particular islands or an alternative cover from a different layer could be used in a map composition to complete the full atoll coverage. Most of the remaining coverages include all of the southern Cocos atoll.

North Keeling, because of its geographic isolation is always included as a separate cover and represented in map compositions as an inset rather than in its correct location. Only a few of the thematic layers have been compiled for North Keeling. There is little mapped information available for this island and no air photo or field mapping was undertaken during the planning study.

All of the covers are topologically structured and checked for correct polygon closure and labelling. However, in some instances not all polygons have attribute information, where this was found to be unnecessary.

The accuracy of the data are sufficient for planning purposes and are largely governed by the accuracy of existing map sources. Only limited field checking had been undertaken during a one week visit to the islands. Detailed mapping would need to be undertaken for management purposes particularly related to public utilities and services infrastructure, using detailed plans (in non-digital form) held by ACS in Perth.

STRUCTURE AND CONTENT OF THE DATABASE

The information is summarised in two parts in the accompanying attachments. The first is a tabular description of the ARC/INFO coverages which includes details on map extent and coverage features. The second is a description of the map layers by theme, which includes details on covers and feature included, where the information was obtained and its accuracy, attribute classifications and lists of associated lookup tables, key files and macro files for generating the map compositions for the report figures and presentation maps.

USE OF THE DATABASE

Use of the database in its basic form will require a working knowledge of ARC/INFO, particularly for complex queries, preparation of cartographic output, updating and further development. Simple automated queries by non-skilled operators using ARC/INFO would require the development of a set of macros designed for user-friendly operation. However, this would require identification of the types of standard queries by users. The use of the new ESRI product ARCVIEW should enable easy use of the database for some queries, without the need for a detailed knowledge of ARC/INFO.

All coverages should function correctly without modification on ARC/INFO platforms once imported. However, there are a number of enhancements which could be made to make better use of the additional features and capabilities of the full ARC/INFO package.

It may be simpler for the user, if some of the covers were combined (by MAPJOIN) to create full atoll coverages for each theme, particularly for use on more powerful hardware platforms where display speed and storage space are less critical than is the case on a pc. This would achieve the same result without having to specify multiple coverages to create a map composition for the whole atoll.

Since the annotation for specific islands was sized to suit the map compositions required, there will be incompatibility in the sizing when covers are joined. This can be fixed easily by using the select and calculate commands in **ARCEDIT**.

Some macros (SML's) are included in the set of files. These have been developed specifically for producing plot files (these were developed to produce the figures in the planning report or the presentation maps). They are included to provide examples of map compositions. Several modification would be required to convert them to workable AML's, including changes to pc SML lines not recognised by ARC/INFO, changes to textfonts, textsets, shadesets, etc and commands for creating plot files. However, most ARCPLOT commands would not need to be changed.

The lookup tables and key files are specifically set up to use the 100 shades in the COLOR shadeset in pc ARC/INFO. They would need to be amended for other shadesets. A few lookup and key files have been included which were developed for use with the CMYK shadeset on the NRIC computer system. They apply only to the land use and planning map covers.

In some instances a parallel set of SML's, key files and coverage annotation levels have been prepared using the Cocos-Malay language. The annotation levels are normally on or two levels higher than the English version and the SML and Key files contain an M at the end of the file name to distinguish them.

Attached are some sample SML's and AML's used for creating map compositions for the planning scheme maps. The full set of SML's is included on the disks provided.

SUMMARY OF COVERS IN DATABASE

COVER NAME	EXTENT	FEATURES	FEATURE CLASS	ATTRIBUTES	ANNOTATION
ISLANDS	Southern atoll	Coastlines	Polygons	None	Island names Level 1 - English Level 2 - Malay
NORTHK	North Keeling	Coastline	Polygon	None	Island name (as above)
WEST	West Island	Coastline	Polygons	None	None
SOUTH	South Island	Coastline	Polygons	None	None
HOME	Home Island	Coastline	Polygons	None	None
NORTH	Horsburgh and Direction Isl.	Coastlines	Polygons	None	None
OTHER	Small islands south of Home Island	Coastlines	Polygons	None	None
REEF	Southern atoll	Reef edge	Polygons	None	Identifying label - level 1 - English - level 2 - Malay
NKREEF	North Keeling	Reef edge	Polygons	None	None
LAGOON	Southern atoll	Reef edge, coastlines and lagoon	Polygons	ZONE	None
NKLAGOON	North Keeling	Reef edge, coastline and lagoon	Polygons	ZONE	None
TOPO	Southern atoll	Coastlines, reef flat, lagoon, beaches, swamps	Polygons	FEAT (feature)	None
WESTCAD	West Island	Coastline, lot boundaries and numbers	Polygons	LOTNO (lot number) TENURE	Level 1 - Lot descriptions Level 2 - Lot numbers
HOMECAD	Home Island	As above	Polygons	LOTNO (lot number)	Level 1 - Lot numbers Level 2 - House/Lot numbers

COVER NAME	EXTENT	FEATURES	FEATURE CLASS	ATTRIBUTES	ANNOTATION
ROADS	Southern atoll	Sealed and unsealed roads, cycle path	Lines	TYPE	None
UTILS	Southern atoll	Public utilities and services infrastructure	Points and lines	TYPE LABEL	None
AIRPORT	West Island	Runway and parking area	Polygons	None	None
WATER	West, Home, South and Horsburgh	Known groundwater lenses	Polygons	None	None
EROSION	West Island	Erosion prone coastline Potential breach areas	Lines	CODE	None
VEG	Southern atoll	Coastlines, Native vegetation communities	Polygons	TYPE	None
VEG2	Southern atoll	Coastlines, Vegetation structure	Polygons	STRUC	None
HABITAT	Southern atoll	Migratory bird habitats	Polygons	TYPE	Species information and notes
MARINE	Southern atoll	Coastlines, Marine habitats	Polygons	TYPE CODE	Polygon codes
MARRES	Southern atoll	Coastlines, important marine areas	Polygons	TYPE	Identifying labels
MARRES2	Southern atoll	Coastlines, marine habitats (similar to MARRES)	Polygons	TYPE CODE	None
RECRES	Southern atoll	Coastlines, recreation facilities and water-based activities	Polygons	TYPE	Identifying labels
SITES	Southern atoll	Heritage sites	Points	TYPE	Identifying labels
NKSITES	North Keeling	Heritage site	Points	TYPE	Identifying label
SITES2	Home Island	Heritage sites	Polygons	TYPE	None
TOURIST	Southern atoll	Proposed tourist development areas	Polygons	None	Identifying labels

COVER NAME	EXTENT	FEATURES	FEATURE CLASS	ATTRIBUTES	ANNOTATION
RUBBISH	Southern atoll	Coastlines, rubbish problem areas	Polygons	DUMP	None
WESTUSE2	West Island	Coastline, cadastral boundaries existing land use	Polygons	USE (land use category)	Identifying labels
HOMEUSE2	Home Island	as above	Polygons	as above	as above
NORTHUSE	Horsburgh and Direction Islands	as above	Polygons	as above	as above
SOUTHUSE	South Island	as above	Polygons	as above	Legend symbols
OTHERUSE	Islands south of Home Island	as above	Polygons	as above	None
NKUSE	North Keeling	as above	Polygons	as above	None
WESTOPT	West Island	Coastline, planning options	Polygons	OPT (options category)	Level 1 - English notes Level 2 - English legend symbols Level 3 - Malay notes Level 4 - Malay legend symbols
HOMEOPT	Home Island	as above	Polygons	as above	Level 1 - English notes Level 2 - Malay notes
NORTIOPT	Horsburgh and Direction Islands	as above	Polygons	as above	Level 1 - English notes Level 2 - English legend symbols Level 3 - Malay notes Level 4 - Malay legend symbols
WESTPREF	West Island	Coastline, preferred planning options	Polygons	OPT (options category)	as above
HOMEPREF	Home Island	as above	Polygons	as above	Level 1 - English notes Level 2 - Malay notes
NORPREF	Horsburgh and Direction Islands	as above	Polygons	as above	Level 1 - English notes Level 2 - English legend symbols Level 3 - Malay notes Level 4 - Malay legend symbols

COVER NAME	EXTENT	FEATURIES	FEATURE CLASS	ATTRIBUTIS	ANNOTATION
WESTZONE	West Island	Coastline, statutory land use plan	Polygons	ZONE (zone and reserve categories)	as above
HOMEZONE	Home Island	as above	Polygons	as above	Level 1 - English legend symbols Level 2 - Malay legend symbols
NORZONE	Horsburgh and Direction Island	as above	Polygons	as above	as above
OTHZONE	Islands south of Home Island	as above	Polygons	as above	None
SOUZONE	South Island	as above	Polygons	as above	Level 1 - English legend symbols Level 2 - Malay legend symbols

DESCRIPTION OF RESOURCE AND LAND USE MAP LAYERS

TOPOGRAPHY

COVER:	TOPO										
FEATURES:	Island coastlines, semi-saline swamps, beaches (sand or coral rubble below high water mark), edge of reef flat and lagoon with attributes to identify features										
SOURCES AND ACCURACY:	1:10,000 cadastral maps for coastlines of all islands except South Island and North Keeling other features from 1:25,000 topo maps and air photos. Note - constant coastline changes mean that the current coastline may not be accurately represented in published maps. Some minor changes have been made to reflect the effects of recent lagoon filling on West and Home Island. The 1:10,000 cadastral maps show the coastline above HWM while the 1:25,000 topo maps show the coastline at LWM. Only the South Island coastline was digitized from the 1:25,000 maps.										
ATTRIBUTES:	FEAT (topographic features) <table><tr><td>1</td><td>Reef flat and lagoon</td></tr><tr><td>2</td><td>Islands above HWM</td></tr><tr><td>3</td><td>Beach</td></tr><tr><td>4</td><td>Semi-saline swamp</td></tr><tr><td>5</td><td>Deep hole in lagoon</td></tr></table>	1	Reef flat and lagoon	2	Islands above HWM	3	Beach	4	Semi-saline swamp	5	Deep hole in lagoon
1	Reef flat and lagoon										
2	Islands above HWM										
3	Beach										
4	Semi-saline swamp										
5	Deep hole in lagoon										
LOOKUP TABLE:	TOPO.LUT (pc ARC/INFO - shadeset COLOR)										

CADASTRAL

COVERS:	WESTCAD, HOMECAD
FEATURES:	Lot boundaries and lot numbers with attributes to identify lot numbers and land ownership
SOURCES AND ACCURACY:	1:10,000 cadastral maps of West and Home Islands supplemented by survey plans for individual lots and 1:1000 detail map of Home Island settlement. Note: Cadastral mapping is being undertaken by AUSLIG and will replace these temporary covers when available
ATTRIBUTES:	LOTNO – as defined on cadastral plans TENURE

- | | |
|---|---------------------------------------|
| 1 | Commonwealth Owned |
| 2 | Council land licenced to Commonwealth |
| 3 | Council Land |

LOOKUP TABLE: CAD.LUT (pc ARC/INFO - shadeset COLOR)

KEY FILE: CAD.KEY

SML: WESTTEN.SML (creates plot file used in report)

ROADS

COVER: ROADS

FEATURES: Sealed and unsealed roads and cycle path with attributes to identify type

SOURCES AND ACCURACY: Detailed maps of settlement areas on West and Home Islands, 1: 10,000 cadastral map for Sydney Highway and 1:25,000 topo maps for other roads and tracks. Cyclepath was field mapped.

ATTRIBUTES: TYPE (road type) - line features

- | | |
|---|------------------------|
| 1 | Sydney Highway |
| 2 | Other sealed roads |
| 3 | Other roads and tracks |
| 4 | Cycle path |

LOOKUP TABLE: ROADS.LUT

UTILITIES AND SERVICES

COVER: UTILS

FEATURES: Line features - jettys, boat ramps, seawalls and breakwaters, sewer outfalls and fuel pipeline

Point features - power stations, radio masts, navigation beacons, bores, sand and gravel pits and associated services buildings

Both are identified in attribute tables by type code and text label.

SOURCES AND ACCURACY: Detailed maps of settlement areas on West and Home Islands and 1:25,000 topo maps for other areas plus some air photo and field mapping

ATTRIBUTES: TYPE - Line features

- 1 Boat ramps and jettys
- 2 Breakwaters and seawalls
- 3 Pipelines

TYPE - Point features

- 1 Power supply facility
- 2 Communication facility
- 3 Navigation facility
- 4 Navigation buoy
- 5 Water supply facility
- 6 Services building
- 7 Fuel storage tanks
- 8 Sand or gravel pit

LABEL - text descriptions of both line and point features

LOOKUP TABLES: UTIL.LUT, UTIL2.LUT (pc ARC/INFO)

KEY FILES: UTIL.KEY, UTIL2.KEY

COVER: AIRPORT

FEATURES: Runway and aircraft parking area

SOURCES AND ACCURACY: 1:4000 survey map of West Island settlement area

ATTRIBUTES: None.

WATER RESOURCES

COVER: WATER

FEATURES: Extent of known groundwater lenses

SOURCES AND ACCURACY: Boundaries as mapped by T. Falkland in reports to DASETT
Note - many boundaries are based on predicted extent rather than precise location.

ATTRIBUTES: None (Note - bores and wells are mapped as point features in the cover UTILS).
KEY FILE: WATER.KEY
SML: WATER.SML (creates plot file used in report)

EROSION

COVER: **EROSION**
FEATURES: Erosion prone coastline and potential breach areas on West Island (Note - no major erosion problems on other islands have been noted)
SOURCES AND ACCURACY: Generalised areas based on advice from ANPWS Conservator (P. Stevenson) and field inspection of some locations
ATTRIBUTES: CODE (Erosion category)
1 Erosion prone coastline
2 Potential breach zones
LOOKUP TABLE: EROSION.LUT (pc ARC/INFO - shadeset COLOR)
KEY FILE: EROSION.KEY
SML: WESTDUMP.SML (creates plot file used in report, combined with cover RUBBISH, for West Island only)

VEGETATION

COVER: **VEG**
FEATURES: Remnant native vegetation and stands of *Pemphis* on sandbanks in lagoon
SOURCES AND ACCURACY: 1:25,000 maps by D. Williams showing *Pemphis* community on one map and 14 classes of remnant vegetation on another. Both maps were corrected for distortion when digitized by reference to AUSLIG 1:25,000 topo maps. Note - North Keeling is assumed to have mainly native vegetation but information on types was not available during the planning study.
ATTRIBUTES: TYPE (vegetation classification) - see D. Williams report for explanation of types A to N

0	Other vegetation
1	Pemphis
2	Remnant veg type A
3	Remnant veg type B
4	Remnant veg type C
5	Remnant veg type D
6	Remnant veg type E
7	Remnant veg type F
8	Remnant veg type G
9	Remnant veg type H
10	Remnant veg type I
11	Remnant veg type J
12	Remnant veg type K
13	Remnant veg type L
14	Remnant veg type M
15	Remnant veg type N

LOOKUP TABLE: VEG.LUT (pc ARC/INFO - shadeset COLOR)

KEY FILE: VEG.KEY

SML: VEG.SMI (creates plot file used in report, which includes VEG2 cover)

COVER: VEG2

FEATURES: Simplified vegetation structure including cleared areas which are predominantly grassed or built up, sparsely treed areas (mostly coconut palms), densely treed areas (coconut plantations) and semisalinity swamp communities (mostly unvegetated mudflats with dense fringing shrub cover)

SOURCES AND ACCURACY: Mostly generalised boundaries derived from interpretation of air photographs and field inspection (some areas have been cleared since the 1987 air photos and are not shown on previous maps hence boundaries are only approximate - based on brief field inspection). Note - a more detailed mapping of vegetation structure would be required for detailed planning and management purposes.

ATTRIBUTES: STRUC (vegetation structure)

1	Cleared land
2	Sparse coconut trees & grass
3	Coconut plantations
4	Shrub cover
5	Settlement area
6	Swamp vegetation
7	Unvegetated beach

LOOKUP TABLE: VEG2.LUT (pc ARC/INFO - shadeset COLOR)

KEY FILE: VEG2.KEY

SML: VEG.SML (creates plot file used in report, which includes VEG cover)

BIRD HABITATS

COVER:	HABITAT
FEATURES:	Habitat areas used by migratory water birds together with some notes on species which are found in certain locations
SOURCES AND ACCURACY:	Generalised boundaries based on the advice of ANPWS Conservator (P. Stevenson).
ATTRIBUTES:	TYPE (habitat type) 1 Migratory birds
SML:	HABITAT.SML (creates a plot file)

MARINE HABITATS

COVER:	MARINE
FEATURES:	Marine habitat classification as mapped and classified by D. Williams with a generalised grouping into reef slope, reef flat and lagoon. Note - no marine habitats classification was available for North Keeling, however, the edge of the reef was digitized from the AUSLIG 1:5000 topographic map of North Keeling and is included in the cover NKREEF.
SOURCES AND ACCURACY:	1:25,000 map by D. Williams, based on a classified SPOT satellite image. The map was corrected for distortion when digitized by reference to AUSLIG 1:25,000 topo maps.
ATTRIBUTES:	TYPE (generalised grouping of habitats) 1 Islands 2 Reef slope 3 Reef flat 4 Lagoon CODE (habitat classification) A Outer reef B Coral and algal flat C Coral flat D Aligned coral flat E Seagrass flat F Prograding sand sheet G Intertidal sand & silt flat H Seagrass sand & silt flat

I	Seagrass flat
J	Coral and algal flat
K	Blue hole mosaic 1
L	Blue hole mosaic 2
M	Blue hole mosaic 3
N	Algal covered staghorn
O	Massive coral outcrops
P	Emergent reef
Q	Sandy lagoon floor
R	Sand shoal
S	Sandy with seagrass
T	Seagrass bed
U	Seagrass bed - Syringodium
V	Mixed seagrass and algal bed
Y	Unidentified (code missing in original map)
Z	Islands

LOOKUP TABLE: MARTYPE.LUT (for TYPE) (pc ARC/INFO - shadeset COLOR)
MARINE.LUT (for CODE) (pc ARC/INFO – shadeset COLOR)

MARINE RESOURCES

COVER: MARRES

FEATURES: Important marine features including the navigation channels, 'The Rip', reef flat replenishment zone and fish nursery, which combine with the features in MARRES2 cover to produce the MARINE RESOURCES map used in the planning report

SOURCES AND ACCURACY: Generalised areas based on advice from ANPWS Conservator (P. Stevenson)

ATTRIBUTES: TYPE

0	Islands
1	The rip
2	Boat channel
3	Reef flat replenishment zone

LOOKUP TABLE: MARRES.LUT (pc ARC/INFO - shadeset COLOR)

SML: MARRES.SML (creates plot file for map used in report - combined with cover MARRES2)

COVER: MARRES2

FEATURES: As for MARINE cover, however, the cover was modified to overcome the polygon size limitation of pc ARC/INFO by subdividing large polygons. This cover is not needed for use in other ARC/INFO systems since the cover MARINE can be used. For the purposes of preparing a simplified map for the MARINE RESOURCES map in the planning report, some habitat codes were grouped as indicated in the attributes section below.

SOURCES AND ACCURACY: As for MARINE cover.

ATTRIBUTES: TYPE AND CODE as for MARINE cover with grouping of codes as follows:

- Seaward Reef Slope (A)
- Coral and Algal Reef Flat (B, C, D, E)
- Prograding Sand Sheet (F)
- Intertidal Sand and Silt Flat (G)
- Seagrass Flats (H,I,S,T,U, V)
- Coral Flat and Patch Reefs (J,N,O,P)
- Blue Holes (K,L,M)
- Sandy Lagoon Floor (Q R)

LOOKUP TABLE: MARTYPE.LUT (for TYPE) (pc ARC/INFO - shadeset COLOR)
MARRES2.LUT (for CODE) (pc ARC/INFO - shadeset COLOR)

KEY FILE: MARRES2.KEY

SML: MARRES.SML (creates plot file for map used in report - combined with cover MARRES)

RECREATION RESOURCES

COVER:	RECRES
FEATURES:	Major locations of recreation activities including picnic and swimming areas, sailing, surfing, diving, reef walking, sports facilities, and other recreation areas such as the golf course and recreation spaces around West Island settlement. Other open space areas are areas with no specific facilities which are available for informal recreation.
SOURCES AND ACCURACY:	Generalised boundaries based on advice from ANPWS Conservator (P. Stevenson) and others and field observations
ATTRIBUTES:	TYPE (recreation resource type) 0 Open space 1 Picnic and swimming areas 2 Sports facilities 3 Other recreation space 4 Marine recreation
LOOKUP TABLE:	RECRES.LUT (pc ARC/INFO - shadeset COLOR)
KEY FILE:	RECRES.KEY
SML:	RECRES.SML (creates plot file for map used in report)

HERITAGE SITES

COVERS:	SITES, SITES2, NKSITES
FEATURES:	Sites on the Register of the National Estate (polygons in SITES2 coverage) and other sites of heritage interest (points in SITES coverage) including cemeteries, ship wrecks, monuments and war relics. NKSITES cover includes the wreck of the 'EMDEN'.
SOURCES AND ACCURACY:	Generalised locations based on advice of ANPWS Conservator (P. Stevenson) and field inspection of some sites.
ATTRIBUTES:	TYPE (heritage site type) - point features in SITES and NKSITES covers 1 Oceania House

- 2 Cemeterys
- 3 Memorials
- 4 Ship wrecks
- 5 Other sites (guns, cable stn etc)

Note - site names are identified in annotation

TYPE - polygon features in SITES2 cover

- 1 Sites on the RNE

LOOKUP TABLE: SITES.LUT (pc ARC/INFO)

KEY FILE: SITES2.KEY

SML: SITES.SML (creates plot file for map report, using combination of these covers)

TOURIST RESORT PROPOSALS

COVER: TOURIST

FEATURES: Areas in which tourist resorts have been proposed and studies have been carried out

SOURCES AND ACCURACY: Notional boundaries suggested by proponents but not surveyed in detail

ATTRIBUTES: None

SML: TOURIST.SML (creates plot file for map used in report)

RUBBISH PROBLEM AREAS

COVER: RUBBISH

FEATURES: Areas in which dumped rubbish is a problem, mostly on beaches and in the lagoon

SOURCES AND ACCURACY: Generalised areas based on advice from ANPWS Conservator (P. Stevenson), mostly field inspected but not accurately mapped

ATTRIBUTES: DUMP

- 1 Rubbish problem areas

KEY FILE: RUBBISH.KEY

SML'S:	RUBBISH.SMI, WESTDUMP.SW, HOMEDUMP.SML (createplot files for maps used in report)
COVERS:	WESTUSE2, HOMEUSE2, NORTHUSE, SOUTHUSE, OTHERUSE, NKUSE
FEATURES:	Areas classified according to their existing use in the planning study
SOURCES AND ACCURACY:	Based on 1:10,000 cadastral map boundaries and detailed maps of settlement areas. Many boundaries were defined during the planning study.
ATTRIBUTES:	USE (land use category) 1 Airport 2 Residential 3 Community facilities 4 Commercial 5 Admin. and utility services 6 Industrial and extractive 7 Tourism 8 Recreation facilities 9 Horticulture 10 Open space 11 Roads and carparks 12 Vacant urban land
LOOKUP TABLE:	LANDUSE.LUT (pc ARC/INFO - shadeset COLOR) USE5.LUT (ARC/INFO Rev. 6 - shadeset CMYK)
KEY FILES:	LANDUSE.KEY, LANDUSE2.KEY, WESTUSE.KEY, HOMEUSE.KEY (pc ARC/INFO) USE5.KEY (ARC/INFO Rev. 6)
SML'S:	LANDUSE.SML, WESTUSE.SML, HOMEUSE.SML, (create plot files for maps used in report)
AML:	LANDUSE5.AML

LAND USE PLANNING OPTIONS

COVERS:	WESTOPT, HOMEOPT, NORTHOPT
FEATURES:	Areas identified in planning study as having potential for particular future uses

SOURCES AND ACCURACY:	Based on existing land use covers - boundaries defined during the planning study
ATTRIBUTES:	OPT (planning options categories - an extension of the existing land use categories) 1 Airport 2 Housing 4 Commercial Development 6 Industrial Area 7 Tourism Development 11 Roads 12 No specific Use 13 Foreshore Protection 14 Rural/Nature Conservation 15 Commonwealth Sites 16 Existing Settlements
LOOKUP TABLE:	OPT.LUT (pc ARC/INFO - shadeset COLOR) OPT2.LUT (ARC/INFO Rev. 6 - shadeset CMYK)
KEY FILES:	OPTIONS.KEY, OPTIONS2.KEY, WESTOPT.KEY, HOMEOPT.KEY (pc ARC/INFO) OPTIONSM.KEY, OPTIONS2M.KEY, WESTOPTM.KEY, HOMEOPTM.KEY (pc ARC/INFO - Cocos-Malay version) OPT5.KEY (ARC/INFO Rev. 6) OPT5M.KEY (ARC/INFO Rev. 6 - Cocos-Malay version)
SML'S:	OPTIONS.SML, WESTOPT.SML, HOMEOPT.SML, OPTIONSM.SML, WESTOPTM.SML, HOMEOPTMSML (create plot files for maps used in report - last letter 'M' of filename indicates Cocos-Malay version)
AML:	OPTIONS2.AML

DRAFT LAND USE PLAN

COVERS:	WESTPREF, HOMEPREF, NORPREF
FEATURES:	Areas identified in planning study as being part of the preferred short to medium term planning strategy and included in the Draft Land Use Plan
SOURCES AND ACCURACY:	Based on planning options covers - boundaries defined during the planning study
ATTRIBUTES:	OPT (planning options categories - an extension of the existing land use categories and the same as used in the planning options covers)

- | | |
|----|---------------------------|
| 1 | Airport |
| 2 | Housing |
| 4 | Commercial Development |
| 6 | Industrial Area |
| 7 | Tourism Development |
| 11 | Roads |
| 12 | No specific Use |
| 13 | Foreshore Protection |
| 14 | Rural/Nature Conservation |
| 15 | Commonwealth Sites |
| 16 | Existing Settlements |

LOOKUP TABLE: OPT.LUT (pc ARC/INFO - shadeset COLOR)
OPT2.LUT (ARC/INFO Rev. 6 - shadeset CMYK)

KEY FILES: OPTIONS.KEY, OPTIONS2.KEY, WESTOPT.KEY,
HOMEPREF.KEY (pc ARC/INFO)
OPTIONSM.KEY, OPTION2M.KEY, WESTOTTM.KEY,
HOMEPREM.KEY (pc ARC/INFO - Cocos-Malay version)

OPT5.KEY (ARC/INFO Rev. 6)

SML'S: PREF.SML, WESTPREF.SML, HOMEPREF.SML,
PREM.SML, WESTPREM.SML, HOMEPREM.SML (create
plot files for maps used in report - last letter M of filename
indicates Cocos-Malay version)

AML: PREF2.AML

DRAFT PLANNING SCHEME

**COVERS: WESTZONE, HOMEZONE, NORZONE, SOUZONE,
OTHZONE**

FEATURES: Areas identified in planning study as the statutory planning
scheme zone and reserved land areas

SOURCES AND ACCURACY: Based on planning options covers - boundaries defined during
the planning study

ATTRIBUTES: ZONE (planning scheme classification)

- | | |
|---|-------------------------|
| 1 | Nature Conservation |
| 2 | Foreshore Protection |
| 3 | Marine Protection |
| 4 | Common |
| 5 | Administrative Purposes |
| 6 | Housing |

- 7 Community
- 8 Recreation
- 9 Commercial
- 10 Tourist
- 11 Industrial
- 12 Rural
- 13 Vacant
- 14 Roads

LOOKUP TABLE: ZONE.LUT (pc ARC/INFO - shadeset COLOR)
 ZONE2.LUT (ARC/INFO Rev. 6 - shadeset CMYK)

KEY FILES: ZONE.KEY, RESERVE.KEY, WESTZONE.KEY,
 WESTRES.KEY, HOMEZONE.KEY, HOMERES.KEY (pc
 ARC/INFO)
 ZONEM.KEY, RESERVEM.KEY, WESTZM.KEY,
 WESTRESM.KEY, HOMEZM.KEY, HOMERESM.KEY (pc
 ARC/INFO - Cocos-Malay version)
 ZONE3.KEY, RESERVE3.KEY (ARC/INFO, Rev. 6)
 ZONE3M.KEY, RES3M.KEY (ARC/INFO, Rev. 6 -
 Cocos-Malay version)

SML'S: ZONE.SML, WESTZONE.SML, WIINSET.SML,
 HOMEZONE.SML, ZONEM.SML, WESTZM.SML,
 WIINSETM.SML, HOMEZM.SMI, (create plot files used for
 maps in report - last letter M of filename indicates
 Cocos-Malay version)

AML: ZONE2.AML

SAMPLE SML'S AND AML'S

ZONE.SML - USED TO CREATE A PLOT FILE USING PC ARC/INFO FOR OUTPUT TO EITHER A HP 8 PEN PLOTTER OR A TEKTRONIX COLOUR PRINTER FOR THE PLANNING SCHEME MAP OF COCOS ISLANDS

(Note - the colour printer produces best fit on an A4 page rather than drawing to scale dimensions are set for an A1 page for plotter output)

&rem Produces a plot of Cocos islands (all)

```
&label start
&type
&type "Producing a colour plot of Cocos Islands"
&type
&ask 1 "Type <RETURN> to continue"
&type
&type "Enter cover required:"
&type
&ask 1 "> [ISLANDS] " ISLANDS
&type
```

&label dudname

```
&type
&type "Plot file will be named ZONEx.PLT"
&ask 6 "Enter file name [ZONE]: "ZONE
&sv 6 %6.PLT
&goto okname &if &nf %6
dialogclear
&type "%6 already exists..."
&goto dudname
```

&label okname

```
dialogclear
&type
&query 5 "Continue " &Y
&goto end &if &eq %5 N
dialogclear
```

&label makemap

map %6
mapext %1
mapunits meters
pageunits inches
pagesize 22 32
mapscale 25000
mappos cen cen

textfont 1
textcolor 1
textquality proportional
shadeset color

maplimits 0 0 22 26
polygonshades lagoon zone zone.lut
polygonshades westzone zone zone.lut
polygonshades souzone zone zone.lut
polygonshades homezone zone zone.lut
polygonshades othzone zone zone.lut
polygonshades norzone zone zone.lut

arclines reef 4
arclines westzone
arclines west 4
arclines home 4
arclines roads 2
arclines south 4
arclines north 4

annotext islands
annotext reef
annotext westzone 2
annotext homezone
annotext southuse
annotext norzone

maplimits 126.5 7 31
mapext nkuse
polygonshades nklagoon zone zone.lut
polygonshades nkuse use landuse.lut
arclines northk 4
arclines nkreef 4
annotext northk
annotext nkuse

maplimits page

```
textsize .6
move 9 31
text 'DRAFT SCHEME MAP,
textsize .25
move .5 1
text 'See Figures 19 and 20'
move .5 .5
text 'for details of West, Direction and Home Islands'
```

```
keybox .5 .5
keyseparation .75 .25
```

```
move 9 30
text 'RESERVED LAND'
keyposition 9 29.5
keyshade reserve.key
move 9.75 29.25
text 'NC'
move 9.75 27
text 'C'
```

```
move 17 30
text 'ZONES'
keyposition 17 29.5
keyshade zone.key
move 17.75 26.25
text 'T'
```

```
linesym 13
box 0 0 22 32
box 126.5 7 31
```

```
map end
```

```
&label end
```

**ZONEM.SML - SIMILAR TO ZONE.SML, BUT USED TO CREATE A PLOT
FILE OF THE PLANNING SCHEME IN THE COCOS-MALAY LANGUAGE**

```
&rem Produces a plot of Cocos islands (all)

&label start
&type
&type "Producing a colour plot of Cocos Islands

&type
&ask 1 "Type <RETURN> to continue"
&type
&type "Enter cover required:"
&type
&ask 1 "> [ISLANDS] " ISLANDS
&type

&label dudname,

&type
&type "Plot file will be named ZONEx.PLT"
&ask 6 "Enter file name [ZONE]: "ZONE

&sv 6 %6.PLT
&goto okname &if &nf %6
dialogclear
&type "%6 already exists..."
&goto dudname

&label okname

dialogclear
&type
&query 5 "Continue " &Y
&goto end &if &eq %5 N
dialogclear

&label makemap

map %6
mapext %1
mapunits meters
pageunits inches
pagesize 22 32
mapscale 25000
mappos cen cen
```

textfont 1
textcolor 1
textquality proportional
shadeset color

maplimits 0 0 22 26
polygonshades lagoon2 zone zone.lut
polygonshades westzone zone zone.lut
polygonshades souzone zone zone.lut
polygonshades homezone zone zone.lut
polygonshades othzone zone zone.lut
polygonshades norzone zone zone.lut

arclines lagoon 4
arclines westzone 1
arclines west 4
arclines home 4
arclines roads 2
arclines south 4
arclines north 4

annotext islands 2
annotext lagoon 2
annotext westzone 4
annotext homezone 2
annotext southuse 2
annotext norzone 3 4

maplimits 126.5 7 31
mapext nkuse
polygonshades nklagoon zone zone.lut
polygonshades nkuse use landuse.lut
arclines northk 4
arclines nkreef 4

annotext northk 2
annotext nkuse 2

maplimits page,

textsize .6
move 9 31
text 'CONTOH KAR SKEMA'
textsize .25
move .5 1
text 'Lihat gambar 19 dan 20'
move .5 .5
text 'di mana ada keterangan pasal Pulu Tikus, Pulu Panjang dan Home Island.'

keybox .5 .5
keyseparation .75 .25

move 9 30
text 'TANAH LINDUNGAN'
keyposition 9 29.5
keyshade reservem.key
move 9.75 29.25
text 'PA'
move 9.75 27
text TU

move 17 30
text 'VATASAN-WATASAN'
keyposition 17 29.5
keyshade zonem.key
move 17.75 26.25
text 'P'

linesym 13
box 0 0 22 32
box 126.5 7 31

map end

&label end

**ZONE2.AML - USED TO CREATE A PLOT FILE USING ARC/INFO REV. 6
AND A CALCOMP ELECTROSTATIC PLOTTER TO PRODUCE AN AO
PRESENTATION MAP OF THE PLANNING SCHEME**

ap
disp 1040
zone2.gra

mapext islands
mapunits meters
pageunits inches
pagesize 32 46
mapscale 18000
mappos cen cen

textfont 92534
textcolor 1
textquality proportional
shadeset cmyk
textset /esrimods/symbols/ncarto.txt

maplimits 0 0 32 36

polygonshades lagoon zone zone2.lut
polygonshades westzone zone zone2.lut
polygonshades souzone zone zone2.lut
polygonshades homezone zone zone2.lut
polygonshades othzone zone zone2.lut
polygonshades norzone zone zone2.lut

arclines reef 4
arclines westzone 1
arclines homezone 1
arclines norzone 1
arclines islands 4
arclines roads 2
arclines utils 3
arclines airport 3

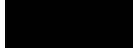
annotext islands
annotext reef
annotext westzone 12
annotext homezone 1
annotext souzone 1
annotext norzone 1

maplimits 2 37 10 43
mapext tics nkuse

Chapter 10

Appendix 7: ECOWISE Environmental Report of Water Resources Component, Cocos (Keeling) Islands GIS.

Note: Includes maps supplied with the report and data.



**Report
on

Water Resources Component
Cocos (Keeling) Islands GIS**

**by
Tanya Whiteway and Tony Falkland
Ecowise Environmental**

**prepared for
Cocos Island Administration,
Department of Transport and Regional Services
&
the Australian Geological Survey Organisation**

April 2001

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Abbreviations

AGSO Australian Geological Survey Organisation

DTRS Department of Transport and Regional Services

1. Executive Summary

1.1. Introduction

As outlined in the “Proposal for developing water resources ‘layers’ for the Cocos GIS”, water resources data has been collated and entered into digital format for the following islands on the South Keeling atoll of the Cocos (Keeling) Islands;

- Home Island,
- West Island, and
- South Island.

The following data layers have been collated on a CD in ArcView shapefile format:

- Locations of freshwater lenses showing boundaries as best current information will allow.
- Locations of salinity monitoring and pollution monitoring boreholes, including co-ordinates.

Additional data and information on the CD includes:

- Tabular and graphical data showing variation of salinity (expressed in electrical conductivity units) monitoring borehole data. Data collected covers the full period of record from commencement of monitoring to late 2000.
- Tabular water quality data have been obtained from the pollution monitoring boreholes between 1998 and early 2001.
- Locations of pumping wells and manholes at the Settlement and galleries on Home Island and in the northern part of West Island (for former Quarantine Station and horticultural block), as best current information will allow.
- List of relevant reports and additional reference information.

1.2. Outputs

As required, outputs of this project include:

- Water resources layers with spatial data and attribute data on a CD (entitled Cocos Water Resources CD). This CD will be made available to the Australian Geological Survey Organisation for incorporation into the overall Cocos GIS and for subsequent distribution to the Cocos Island Administration, the Department of Transport and Regional Services and other authorised users. Separate copies of the CD can be made available, on request, to the Cocos Island Administration and the Department of Transport and Regional Services.
- This report summarising the data layers on the accompanying CD.

1.3. Recommendations

(a) Need for greater accuracy of some locations

While this project has mapped boreholes and water supply pumping infrastructure as accurately as possible, it is recommended that the location of boreholes and pumping wells be obtained more accurately in the field. In particular, boreholes and pump wells in the northern part of West Island should be more accurately located with differential GPS or surveyed by standard procedures. In addition, the position of gallery 8 in the northern part of Home island should be more accurately located once as-constructed drawings are finalised by others.

(b) Need for updating of water quality data at 2 year intervals

The water quality data obtained from boreholes and other sites (e.g. gallery pump wells) is obtained at regular intervals and databases are updated as part of regular monitoring program. It is recommended that the water resources information contained in this GIS be updated at appropriate intervals (e.g. every 2 years).

2. Data Location and CD Structure

The Cocos Water Resources CD consists of the following files and directories:

- Cocos.apr file
- Data directory
- Documentation directory

Details of each of these are described below:

2.1. Cocos.apr

“Cocos.apr” is an Arcview project which includes base data from “Cocos (Keeling) Islands GIS Stage 1 Report” CD data, and rectified aerial photography, as obtained from AGSO.

The project is in the same projection as the base data using Cocos (Keeling) Islands Grid 1992 (CKIG92) projection.

The project is set up with six Views:

- (a) Cocos Islands Working View. (Views the entire Cocos Island water resources data set including all data sets.)
- (b) West Island South View. (Detailed View of southern part of West Island including the airfield and Settlement showing boreholes, pumping wells and the approximate boundary of the “Airfield” freshwater lens.)
- (c) West Island North View. (Detailed View of northern part of West Island showing boreholes, galleries for former Quarantine Station and horticultural block and the approximate boundary of the “West Island Northern” freshwater lens.)
- (d) Home Island View (Detailed View of Home Island showing boreholes and approximate boundary of “Home Island Main” and “Home Island Northern” freshwater lenses.)
- (e) South Island View. (Detailed View of South Island showing boreholes and approximate boundary of freshwater lenses.)
- (f) Home Island Infiltration Galleries View. (Detailed View of Home Island, including boreholes and Infiltration Gallery Layouts.)

The hotlink tool (in all views of Cocos.apr) has been set up to connect salinity monitoring borehole locations with graphs showing the change in salinity from 1987 through to 2000 at each borehole. To access the hotlink, click on the hotlink button and then click on a borehole point. This will bring up an image of the graph in Internet Explorer.

There are also six layout windows (A4 paper size), one per view.

2.2. Documentation Directory

The contents of the Documentation Directory are summarised in the table below.

Contents of the Documentation Directory

File Name and Type	Properties/Description
Report.doc	- Summary of Data collection process, and data collected - Outlines the type and location of data on the CD - Outlines the metadata for all shapefiles on the CD - Lists other references to the data, and includes other sources of information for Cocos Islands water resources
Cocos Gallery Cross section (from Woodroffe and Falkland, 1997).bmp	Cross sectional Diagram of a buried infiltration gallery (Home island type)
Salinity_monitoring_bore.bmp	Cross sectional Diagram of a Salinity Monitoring Borehole
Pollution_monitoring_bore.bmp	Cross sectional Diagram of a Pollution Monitoring Borehole

2.3. Data Directory

The Data Directory consists of the following sub-directories:

- Shapefiles sub-directory
- Images sub-directory
- Excel&dbf sub-directory

2.3.1. Shapefiles Sub-Directory

The contents of the shapefiles sub-directory are summarised in the table below. Additional metadata for each shapefile, has been recorded in the metadata section of this report.

Contents of the Shapefiles sub-directory

Shapefile Name	Description
Bores.shp	Point location of salinity and pollution monitoring boreholes on all islands
Homeis_Galleries.shp	Line location of buried infiltration galleries on Home Island on Home Island
Homeis_Saline_testpts.shp	Point location of salinity testing sites situated on an infiltration gallery on Home Island
Homeis_Pumpst.shp	Point location of pump stations, pumping from an infiltration gallery on Home Island
Homeis_Manholes.shp	Point location of manholes providing access to infiltration galleries on Home Island
Homeis_lens.shp	Polygon shapefile, delineating the approximate location of the freshwater lens on Home Island
Homeislens_line.shp	Line shapefile, outlining the approximate boundary of the freshwater lens on Home Island

Westis_lens.shp	Polygon shapefile, delineating the approximate location of the freshwater lens on West Island
Westislens_line.shp	Line shapefile, outlining the approximate boundary of the freshwater lens on West Island
Westis_pumpst.shp	Point location of pump stations, pumping from an infiltration gallery on West Island
Westis_manholes.shp	Point location of manholes providing access to infiltration galleries on West Island
Westis_galleries.shp	Line location of buried infiltration galleries on West Island
Southis_lens.shp	Polygon shapefile, delineating the approximate location of the freshwater lens on South Island
Southis_lensli.shp	Line shapefile, outlining the approximate boundary of the freshwater lens on South Island
Possiblelens_extent.shp	Line shapefile indicating the possible further extent of the freshwater lens on Home Island.
Cocos_line.shp, Cocos_land.shp, and Cocos.shp	Base data collected in the initial data collection and stored on the "Cocos Stage 1 CD.

2.3.2. Images Sub-Directory

There are 89 Mr Sid rectified images for the whole of South Keeling atoll in the images sub-directory. Mr Sid files can only be read in ArcView if the Mr Sid Image Support extension tool has been selected via the files/extension menu.

2.3.3. Excel&dbf Sub-Directory

The contents of the Excel&dbf sub-directory are summarised in the table below.

Contents of the Excel&dbf sub-directory

File Name and Type	Properties/Description
AGAL_test_results_environmental_galleries&borholes.xls	Water quality data from both galleries and pollution monitoring boreholes. Data has been recorded for June 1998, April 1999, May 1999, June 2000, April 2000, October 2000 and January 2001.
Cocos_bore_data.xls	Cocos borehole salinity data from 1987 to 2000, at approximately 3 month intervals.
Graphs_Images sub-Directory	This sub-directory contains 82 files in wmf and jpg format showing graphs of salinity (electrical conductivity or EC) variations for each salinity monitoring borehole over the full period of monitoring. The monitoring periods vary according to the year of drilling, the earliest being 1987. The graphs show the depth below ground surface to the following salinity (EC) values: 1000, 2500, 10,000, 25,000 and 40,000 $\mu\text{S}/\text{cm}$, based on linear interpolation from measurements at specific depths. These EC values correspond to salinities of 2%, 5%, 20%, 50% and 80% of seawater.

3. Shapefiles Metadata

All shapefiles collected on the CD have been converted to Cocos (Keeling) Islands Grid 1992 (CKIG92) projection, World Geodetic System 1984 (WGS 84) Datum. Metadata and a description of each shapefile is provided below.

3.1. Bores.shp

The 'bores' shapefile contains point locations of salinity monitoring and pollution monitoring boreholes.

Accuracy: Data was originally digitised from points surveyed by Nolan and Partners Surveyors, Perth. Points have been modified based on data collected from hand drawn maps, reports and local island knowledge (see references). Accuracy is within $\pm 20\text{m}$ for 80% of the points. 20% of the points, especially some of those situated on the northern part of West Island and Home Island have an accuracy of $\pm 50\text{m}$.

Field	Properties/Description
Shape	Shapefile type (points)
Label	Borehole Labels (Excluding Island Prefix)
Borehole	Borehole Name (Including Island Prefix)
Bore Type	Salinity or Pollution Monitoring Borehole
Graph_link	Hotlink to Graphs of salinity (EC) v's time for each borehole
x-coord	X coordinates of boreholes in CKIG92, WGS 84 projection
y-coord	Y coordinates of boreholes in CKIG92, WGS 84 projection

3.2. Homeis_Galleries.shp

Homeis_Galleries.shp is a line shapefile showing location of infiltration galleries.

Accuracy: Lines have been recorded based on data collected from hand drawn maps and reports and local knowledge (see references). Location of Galleries should fall within $\pm 20\text{m}$ accuracy.

Field	Properties/Description
Shape	Shapefile type (line)
ID	Identifier
Name	Gallery Name and Number

3.3. Homeis_Pumpst.shp

The 'Homeis_Pumpst' shapefile contains point locations of water pumping wells, either as part of an infiltration gallery (Home Island and northern West Island) or as wells with short lateral pipes (West Island Settlement).

Accuracy: Points have been recorded based on data collected from hand drawn maps and reports (see references). Location of pumping wells should fall within $\pm 20\text{m}$ accuracy.

Field	Properties/Description
Shape	Shapefile type (points)
Id	Identifier
Code	Name and number of Pump station

3.4. Homeis_Manholes.shp

The 'Homeis_Manholes' shapefile contains point locations of manholes providing access to infiltration galleries shown in "homeis_galleries.shp".

Accuracy: Points have been recorded based on data collected from hand drawn maps and reports (see references). Location of manholes has been based on the location of infiltration galleries, therefore the location of manholes should fall within $\pm 20\text{m}$ accuracy.

Field	Properties/Description
Shape	Shapefile type (points)
Id	Identifier

3.5. Homeis_Saline_testpts.shp

The 'Homeis_saline_testpts' shapefile contains point locations of salinity testing sites located along Home Island infiltration galleries.

Accuracy: Points have been recorded based on data collected from hand drawn maps and reports (see references). Location of salinity testing points has been based on the location of infiltration galleries. Therefore, the location of salinity testing points should fall within $\pm 20\text{m}$ accuracy.

Field	Properties/Description
Shape	Shapefile type (points)
ID	Identifier
Name	Gallery Name and Number of the test point

3.6. Homeis_lens.shp

The 'Homeis_lens' shapefile contains polygon data indicating the approximate boundary of the Home Island freshwater lenses.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (polygons)
Fid	Identifier
Perimeter	Total lens perimeter
Area	Total lens area

3.7. Homeislens_line.shp

The 'Homeislens_line' shapefile contains line data indicating the approximate boundary of the Home Island freshwater lenses.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (line)
Id	Identifier
Fid	Identifier
Length	Line length

3.8. Westis_Galleries.shp

Westis_Galleries.shp is a line shapefile showing location of infiltration galleries.

Accuracy: Lines have been recorded based on data collected from hand drawn maps and reports and local knowledge (see references). Location of Galleries should fall within $\pm 20\text{m}$ accuracy.

Field	Properties/Description
Shape	Shapefile type (line)
ID	Identifier
FID	Identifier
Name	Gallery Name and Number

3.9. Westis_Pumpst.shp

The 'Westis_Pumpst' shapefile contains point locations of water pumping wells, either as part of an infiltration gallery (Home Island and northern West Island) or as wells with short lateral pipes (West Island Settlement).

Accuracy: Points have been recorded based on data collected from hand drawn maps and reports (see references). Location of pumping wells should fall within $\pm 20\text{m}$ accuracy.

Field	Properties/Description
Shape	Shapefile type (points)
Id	Identifier
FID	Identifier
Code	Name and number of Pump station

3.10. Westis_Manholes.shp

The 'Westis_Manholes' shapefile contains point locations of manholes providing access to infiltration galleries shown in "homeis_galleries.shp".

Accuracy: Points have been recorded based on data collected from hand drawn maps and reports (see references). Location of manholes has been based on the location of infiltration galleries, therefore the location of manholes should fall within $\pm 20\text{m}$ accuracy.

Field	Properties/Description
Shape	Shapefile type (points)
FID	Identifier
Id	Identifier

3.11. Westis_lens.shp

The 'Westis_lens' shapefile contains polygon data indicating the approximate boundary of the West Island freshwater lenses.

Accuracy: Estimated extent of the freshwater boundary is based on information from salinity monitoring boreholes and some estimation based on knowledge of freshwater lens behaviour near the edges of coral islands. The boundaries are somewhat subjective and in fact are not fixed as they will move according to wet and dry periods. Hence, it is difficult to provide a general accuracy estimate. It could be said that the freshwater lens boundary would normally be within $\pm 30\text{m}$ of the boundary shown, but that this could be greater during very dry or very wet periods

Field	Properties/Description
Shape	Shapefile type (polygons)
Fid	Identifier
Perimeter	Total lens perimeter
Area	Total lens area

3.12. Westislens_line.shp

The 'Westislens_line' shapefile contains line data indicating the approximate boundary of the West Island freshwater lenses.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (line)
Id	Identifier
Fid	Identifier
Length	Line length

3.13. Possiblelens_extent.shp

The 'Possiblelens_extent' shapefile contains line data indicating possible further extent of the freshwater lenses on Home Island.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (line)
Id	Identifier

3.14. Southis_lens.shp

The 'Southis_lens' shapefile contains polygon data indicating the approximate boundary of the South Island freshwater lenses.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (polygons)
Fid	Identifier
Area	Total lens area
Perimeter	Total lens perimeter

3.15. Southis_lensli.shp

The 'Southis_lensli' shapefile contains line data indicating the approximate boundary of the South Island freshwater lens.

Accuracy: See comments under Westis_lens.shp.

Field	Properties/Description
Shape	Shapefile type (line)
Id	Identifier
Length	Line length

3.16. Cocos_line.shp, Cocos_land.shp and cocos.shp

These shapefiles have been used as base data, from the original Cocos stage 1 CD. Data type and accuracy relates directly to initial data collection, carried out by AGSO. This has been reported in:

'Cocos (Keeling) Islands GIS Stage 1 Report' for Territories Office, DTRS, K Porritt, B McKay and A Lucas, AGSO, 10/2/2000.

4. List of References

(a) Reports (prepared by former Department of Housing & Construction and by ACTEW Corporation and Ecowise Environmental)

Falkland A.C. (1988). Cocos (Keeling) Islands Water Resources and Management Study. Report HWR 88/12. Hydrology and Water Resources Section, ACT Electricity and Water. prepared for Australian Construction Services, WA Region.

Falkland A.C. (1991). Cocos (Keeling) Islands. South Island Water Resources Study. Report HWR 91/002. prepared for the Cocos (Keeling) Islands Administration and the Cocos (Keeling) Islands Section of the Department of the Arts, Sport, the Environment, Tourism and Territories.

Falkland A.C. (1992). Cocos (Keeling) Islands. Review of Groundwater Resources on Home and West Islands. Report HWR 92/001. prepared for Australian Construction Services, Department of Administrative Services.

Falkland A.C. (1992). Cocos (Keeling) Islands. Further Investigations of the Northern Freshwater Lens, West Island. Report HWR92/002, Hydrology and Water Resources Branch, ACT Electricity and Water. prepared for Australian Construction Services, Department of Administrative Services.

Falkland A.C. (1993). Cocos (Keeling) Islands. Water Monitoring Reports. Report Nos HWR93/01 to HWR93/06. Hydrology and Water Resources Branch, ACT Electricity and Water. prepared for Asset Services, Cocos (Keeling) Islands.

Falkland A.C. (1994). Home Island water supply options. Rpt No. HWR94/05, ACT Electricity and Water Canberra, Australia, prepared for Cocos (Keeling) Islands Section, Territories Branch, Department of the Arts, Sport and Territories

Falkland A.C. (1994). Cocos (Keeling) Islands. South Island Water Supply Scheme, Preliminary Design & Costs. Report HWR94/01, Hydrology and Water Resources Branch, ACT Electricity and Water. prepared for Australian Construction Services, Department of Administrative Services.

Falkland A.C. (1994). Cocos (Keeling) Islands. Water Monitoring Reports. Reports Nos HWR94/02 (Jan-Feb), HWR94/06 (Mar-Apr), HWR94/07 (May-Jun), HWR94/08 (Jul-Aug), HWR94/10 (Sep-Oct), HWR95/04 (Annual). Hydrology and Water Resources Branch, ACT Electricity and Water. prepared for Asset Services, Cocos (Keeling) Islands.

Falkland A.C. (1995). Cocos (Keeling) Islands. Guidelines for Water Supply Galleries. Report No HWR94/09. Hydrology and Water Resources Branch, ACT Electricity and Water. prepared for Asset Services, Cocos (Keeling) Islands.

- Falkland A.C. and Pink B.J. (1995). Cocos (Keeling) Islands. Water Monitoring Reports. Report Nos HWR95/07 (Jan-Mar), HWR95/08 (Apr-Jun), HWR95/11 (Jul-Sep), HWR96/03 (Annual). Hydrology Services, ACTEW Corporation, prepared for Asset Services, Cocos (Keeling) Islands.
- Pink B.J. and Falkland A.C. (1996). Cocos (Keeling) Islands. Water Monitoring Reports. Report Nos HWR96/05 (Jan-Mar), HWR96/07 (Apr-Jun), HWR96/09 (Jul-Sep), HWR97/01 (Annual). Ecwise Environmental, ACTEW Corporation. prepared for Asset Services, Cocos (Keeling) Islands.
- Falkland A.C. (1997). Drilling of Salinity and Environmental Pollution Monitoring Boreholes, Cocos (Keeling) Islands. Report No HWR96/10, ECOWISE Environmental, ACTEW Corporation, prepared for WORKS Australia, April 1997.
- Alam K. and Falkland A.C. (1997). Home Island Groundwater Modelling and Potential Future Groundwater Development. Report No HWR97/02, ECOWISE Environmental, ACTEW Corporation, prepared for WORKS Australia, April 1997.
- Falkland A.C. (1997). Drilling of Salinity and Environmental Pollution Monitoring Boreholes, Cocos (Keeling) Islands. Report HWR96/06, Ecwise Environmental, ACTEW Corporation. prepared for Works Australia, March 1997.
- Pink B.J. and Falkland A.C. (1997). Cocos (Keeling) Islands. Water Monitoring Reports. Report Nos HWR97/06 (Jan-Mar), HWR97/07 (Apr-Jun), HWR97/12 (Jul-Sep), HWR98/01 (Annual). Ecwise Environmental, ACTEW Corporation. prepared for Asset Services, Cocos (Keeling) Islands.
- Falkland A.C. (1998). Report on May 1998 Drilling Program (further salinity and environmental pollution monitoring boreholes), Cocos (Keeling) Islands. Report HWR98/09, Ecwise Environmental, ACTEW Corporation. prepared for GHD Pty Ltd and the Cocos Islands Administration, June 1998.
- Falkland A.C. (1998). Report on Monitoring at New Boreholes, Northern Part of Home Island. Report HWR98/09, Ecwise Environmental, ACTEW Corporation. prepared for GHD Pty Ltd and the Territories Office, Department of Transport and Regional Development, September 1998.
- Falkland A.C. (1998). Report on Water Quality Test Results from Pollution Monitoring Boreholes. Report HWR98/19, Ecwise Environmental, ACTEW Corporation. prepared for GHD Pty Ltd and the Territories Office, Department of Transport and Regional Services, October 1998.
- Pink B.J. and Falkland A.C. (1998). Cocos (Keeling) Islands. Water Monitoring Reports. Report Nos EHYD98/07 (Jan-Mar), EHYD98/11 (Apr-Jun), EHYD98/171 (Jul-Sep), EHYD99/03 (Annual). Ecwise Environmental, ACTEW Corporation. prepared for Cocos Island Administration, Cocos (Keeling) Islands.
- Falkland A.C. (1999). Cocos (Keeling) Islands. Guidelines for Water Supply Galleries – Revision 1. Report No EHYD99/02, Ecwise Environmental, ACTEW Corporation.. prepared for GHD Pty Ltd and the Territories Office, Department of Transport and Regional Services, March 1999.
- Barratt R. & Falkland A.C. (1999). Report on Water Quality Test Results from Pollution Monitoring Boreholes, Stage 2, Cocos (Keeling) Islands. Report EHYD99/05, Ecwise Environmental, ACTEW Corporation. prepared for GHD Pty Ltd and the Territories Office, Department of Transport and Regional Services, May 1999.
- Pink B.J. and Falkland A.C. (1999). Cocos (Keeling) Islands. Water Monitoring Reports. Report Nos EHYD99/06 (Jan-Mar), EHYD99/10 (Apr-Jun), EHYD99/12 (Jul-Sep), EHYD99/15 (Annual). Ecwise Environmental, ACTEW Corporation. prepared for Cocos Island Administration, Cocos (Keeling) Islands.
- Falkland A.C. (2000). Report on Water Quality Test Results at Monitoring Boreholes and Water Supply Galleries, Home and West Islands, Cocos (Keeling) Islands. Report No EHYD99/16. prepared for Cocos Island Administration, Cocos (Keeling) Islands, February 2000.
- Pink B.J. and Falkland A.C. (2000). Cocos (Keeling) Islands. Water Monitoring Reports. Report Nos EHYD2000/01 (Jan-Mar), EHYD2000/03 (Apr-Jun), EHYD2000/04 (Jul-Sep), EHYD2001/01

(Annual). Ecowise Environmental. prepared for Cocos Island Administration, Cocos (Keeling) Islands.

Falkland A.C. (2000). Fresh Groundwater Resources at Quarantine Station, West Island, Cocos (Keeling) Islands. Report on current state of knowledge and recommendations regarding future development. Report No EHYD2000/05, Ecowise Environmental, prepared for Cocos Island Administration, December 2000.

(b) Papers and journal articles

Falkland, A.C. (1994). Climate, Hydrology and Water Resources of the Cocos (Keeling) Islands. Atoll Research Bulletin, No. 400.

Falkland, A.C. (1994). Management of Freshwater Lenses on Small Coral Islands. Proc. Water Down Under '94 Conference, Adelaide, Australia, November, No. 1, 417-422.

Woodroffe C. D and Falkland A.C. (1997). Geology and hydrogeology of the Cocos (Keeling) Islands, Chapter 31, in Geology and Hydrogeology of Carbonate Islands, Developments in Sedimentology 54 (editors Vacher, H.L. and Quinn, T.M., 1997, Elsevier, Amsterdam, 948 pp.

Cocos (Keeling) Islands

Pacific Ocean

Home Island

South Keeling Lagoon

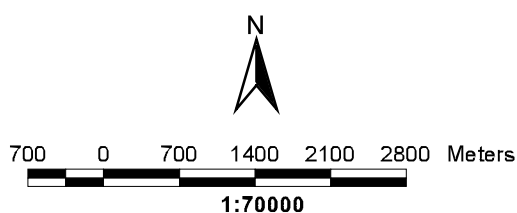
West Island (North)

West Island (South)

South Island

Map Legend

-  Approximate Boundary of Freshwater Lens
-  Cocos (Keeling) Islands
-  Possible further extent of freshwater lens



Projection: CKIG 1992
Datum: WGS 84





Cocos (Keeling) Islands

Home Island Infiltration Galleries

Map Legend

Boresholes

- Pollution Monitoring
- Salinity Monitoring
- Salinity Test Points
- ▲ Pumping Stations
- ⊕ Manholes
- Gallery Pipes
- Approximate Boundary of Freshwater Lens
- - - Possible further extent of Freshwater lens



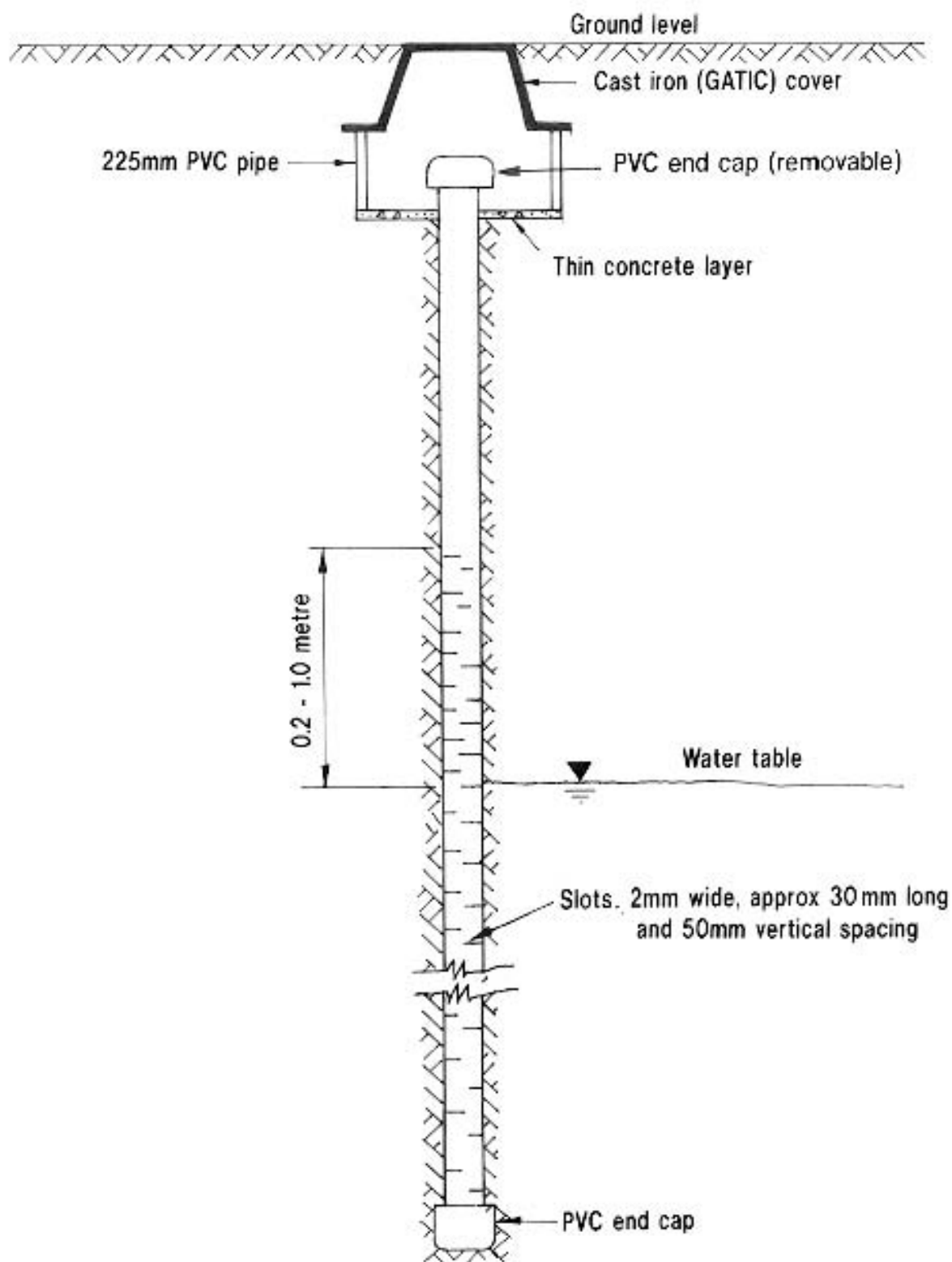
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1:4000

Projection: CKIG 1992

Datum: WGS 84





Pollution monitoring borehole: Typical installation

Cocos (keeling) Islands Home Island

Map Legend

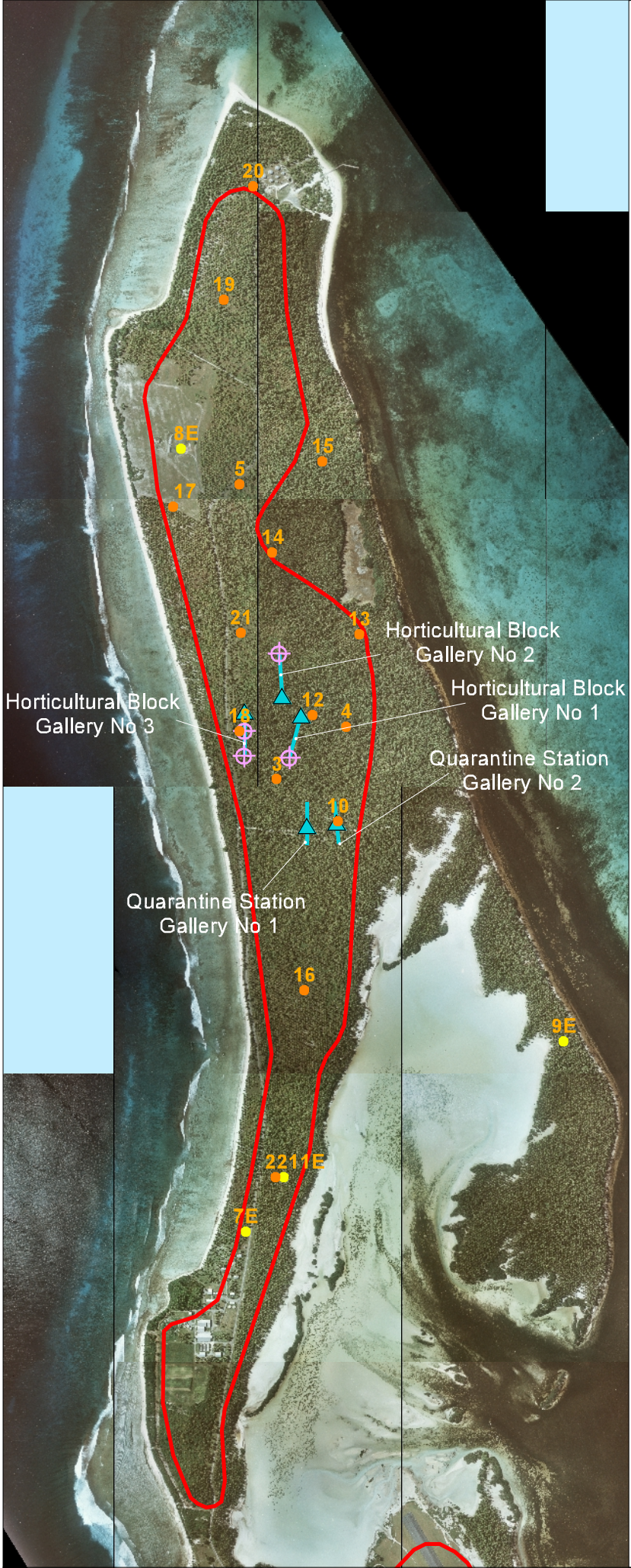
Boresholes

- Pollution Monitoring
- Salinity Monitoring
- ⋈ Possible further extent of freshwater lens
- ⋈ Approximate Boundary of Freshwater Lens



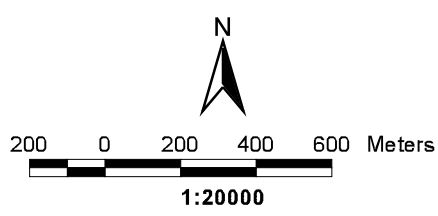
Cocos (keeling) Islands

West Island (North)



Map Legend

- Boresholes
- Pollution Monitoring
 - Salinity Monitoring
 - Pumping Stations
 - Manholes
 - Infiltration Gallery
 - Approximate Boundary of Freshwater Lens



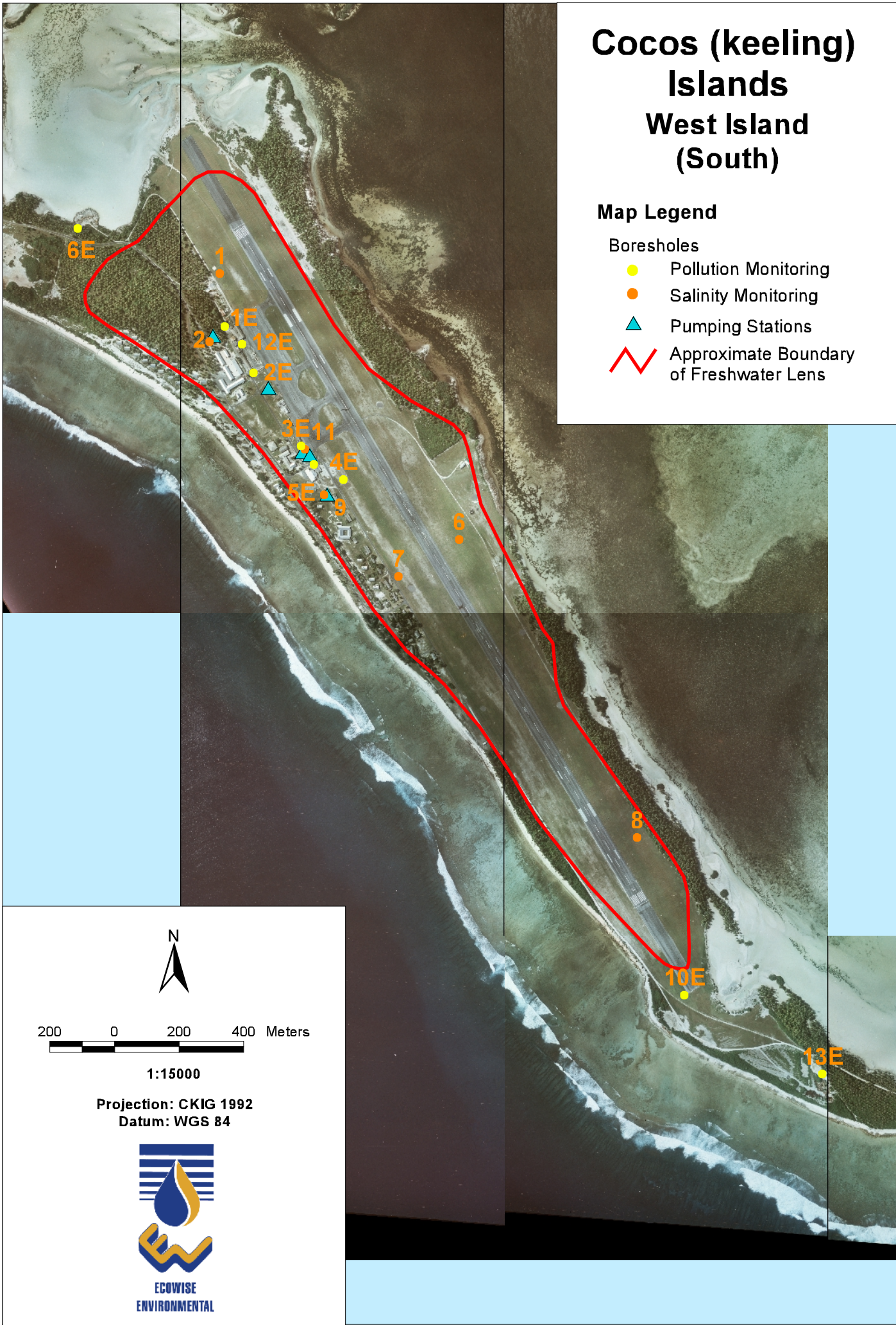
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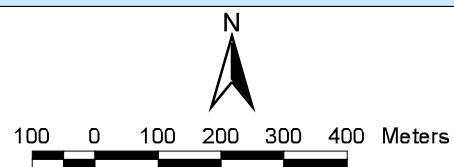


Cocos (keeling) Islands West Island (South)

Map Legend

- Boresholes
- Pollution Monitoring
 - Salinity Monitoring
 - ▲ Pumping Stations
 - ↗ Approximate Boundary of Freshwater Lens





1:12000

Projection: CKIG 1992
Datum: WGS 84

Cocos (keeling) Islands

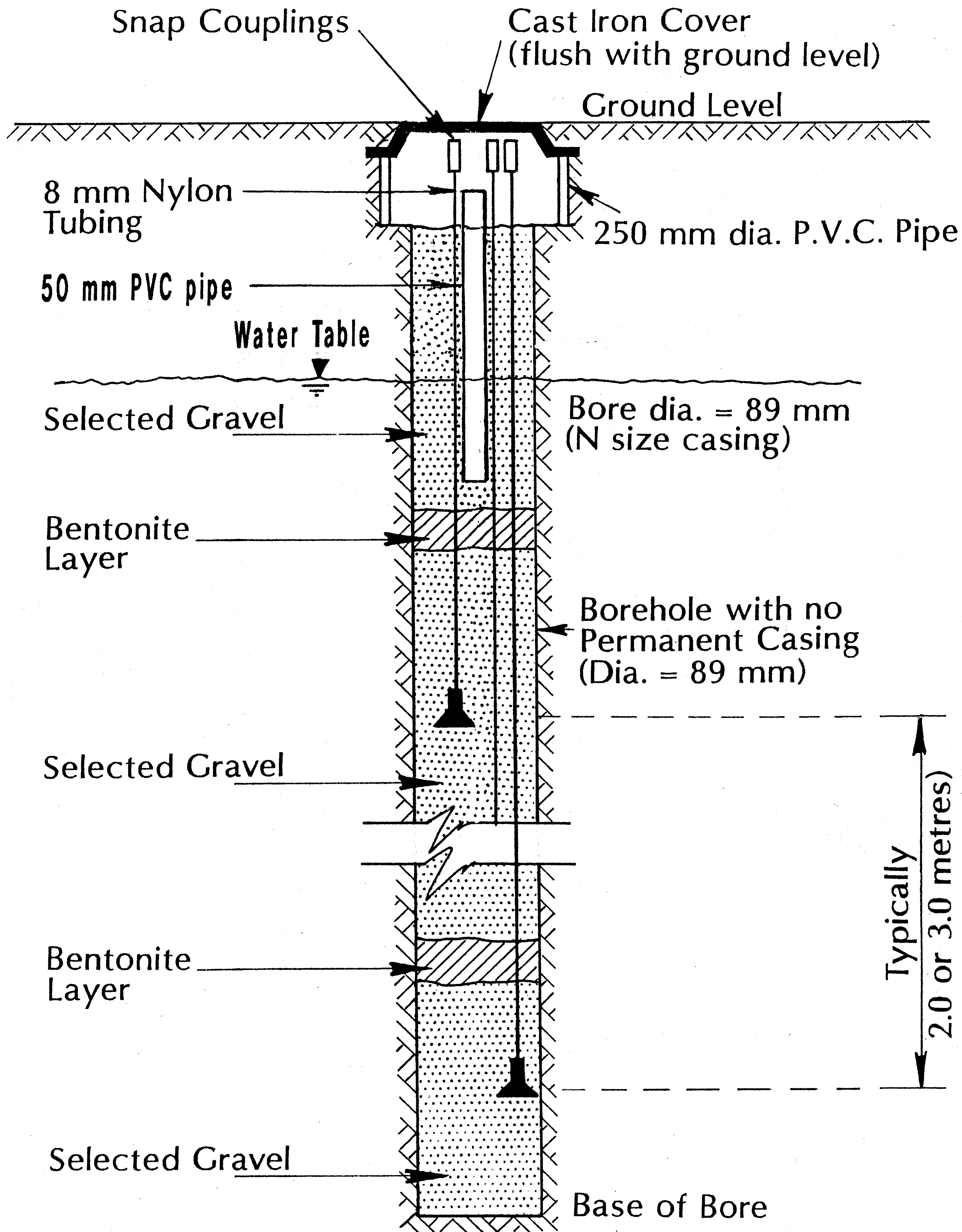
South Island

Map Legend

Boreholes

- Pollution Monitoring
- Salinity Monitoring
- ~ Approximate Boundary of Freshwater Lens





Chapter 11

Appendix 8: Cocos GIS Data CD-ROMs.