

**Philippines – Australia
Land Administration and Management
Project**

Prototype Implementation Offices 1 and 2

**Analysis of the PIO1 and PIO2
databases/Cross Index**

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REPORT D37



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1 Introduction

The capture of information to support the operations of the One Stop Shop (OSS), first titling (at PIO1) and subsequent titling (at PIO2) has been one of the activities of the Land Administration and Management Project (LAMP). The two prototypes have developed system independently of each other with little interaction. While the systems collect different information and should continue to function independently, the database structure of the system should be common to enable it to cater for any future requirements.

PIO1 have worked in a rural environment where the land is being surveyed then titled. On the other hand PIO2 have been working in an urban environment where the land is already surveyed and titled. While they have different requirements for collection of data and operations, the fact remains that the subsequent titling carried out at PIO2 is over titles created the same way as they are being created in PIO1.

1.1 Basic Differences

The TCT and plan structure which makes up the basis of the cross index at PIO2 is the same at PIO1. PIO2 have developed a system that interfaces with other systems held by agencies. PIO1 have stand alone agency systems without an interfacing cross index; PIO1 are in the process of rectifying this problem.

The PIO2 system deals with agencies involved in post titling activities, but has the ability to link into other systems. The PIO1 system is trying to create a structure for each agency, which is something that may be required for the long term.

Both systems contain structural problems which need to be addressed before they could be used as the model for phase 2. PIO2 is restricted to 5 Barangays within one Municipality (Quezon City) and one ROD, PIO1 deals with many Barangays and Municipalities with records stored within one ROD (Leyte Province).

PIO1 collects the data from plans which would allow them to be able to compare the area created on the plan to the area the recorded on the title. With this check they can determine if the area of the land has been tampered with, which is a problem that has occurred throughout the Philippines.

PIO2 does not collect the area from plans and has missed the opportunity to report discrepancies to the ROD.

2 PIO1 Database

2.1 Review of the PIO1 Database

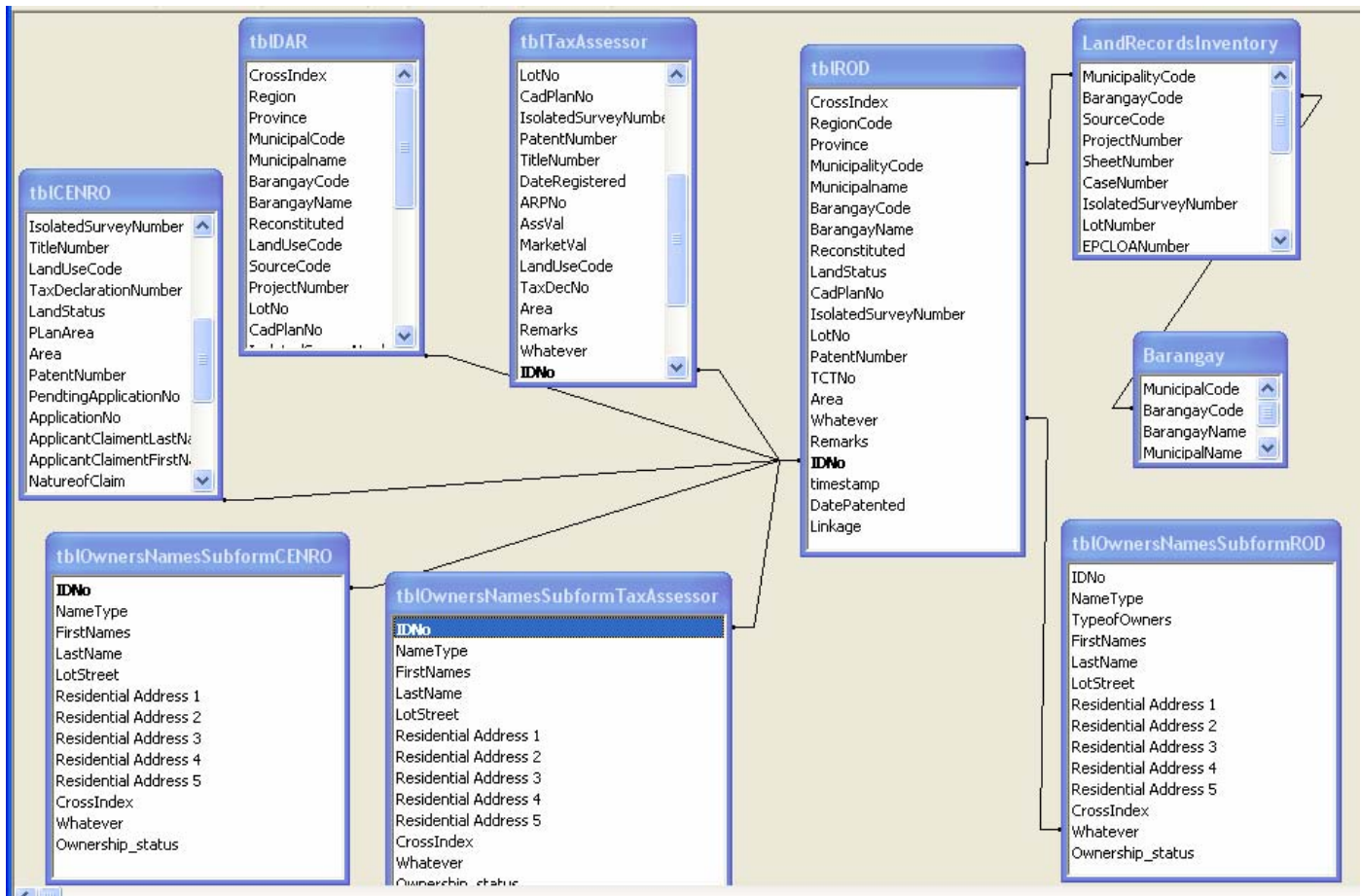
The PIO1 database has been developed to cater for many different operations from different agencies. PIO1 operates in an area where the agencies do not have separate databases. The Local Government Units (LGU) or Municipalities hold their records in paper and investigation is needed to determine if any have converted the records. PIO1 deals with 6 different municipalities all of which have the Land Titles held in one Registry of Deeds (ROD). They also deal with the Department of Environment and Natural Resources (DENR), the Community Environment and Resources Organisation (CENRO), the Department of Agrarian Reform (DAR), the Bureau of Internal Revenue (BIR) and the Land Registration Authority (LRA).

PIO1 are currently experimenting with additions to the structure and are discussing changes required by the agencies. The requirements for the CENRO have been reviewed, the ROD has been commenting on requirements. Before the process goes too far it needs to be developed with a National strategy in mind not just the local requirements of PIO1. For example the requirements are for first titling only and do not take into consideration subsequent transactions.

Realising the problems with their database, PIO1 have begun to make some changes. A CIM table was recently introduced, a linkage field was added and a cross index field. All of these changes need to be reviewed and looked at in a national perspective.

2.2 Linking Records

The initial design of the PIO1 database consists of separate tables to hold the information from the agencies. It did not attempt to join these tables together and left a set of disjointed records. Any connection was intended to be through an “IDNo” field, which was a system generated autonumber. As a record is keyed it is allocated the next number from an internal table in Microsoft Access. There are advantages and disadvantages to using this type of linking field.



The allocation process works fine if the system is restricted to a single computer or to computers that link to a central database via a network. However once records are captured on any stand alone computers, as they are in the field, then there are problems trying to join the records in the database as the numbering is no longer in sequence. There are also problems when agency records are recorded in separate capture screens, for example a record captured at CENRO may be allocated autonumber 20, as there are already 19 records recorded. On a separate capture screen the corresponding record is captured by the ROD and is allocated 35 as they already have 34 records recorded.

This makes the “IDNo useless as the connection is not relevant.

This is illustrated in the following examples where a record is held with different Id numbers but is clearly the same record.

While a Whatever field was developed it is of no use between agencies, also the lack of Quality Assurance is evident in the Barangay names.

To overcome this a linkage has been developed this linkage is similar to the fields used by PIO2 to link records. It uses the lot and plan description, but has added in the Municipality and Barangay. These last two fields are not necessary in the linking field as they are derivable from the plan record, but were added because the initial analysis did not discover that all plans are mutually exclusive, even cadastral plan numbers are not repeated in different provinces and regions.

Also the PIO1 structure has been based around using a separate field for isolated survey plans and cadastral survey plans. This makes the creation of a linking field difficult.

Recommendation

The structure used at PIO2 has been to break the plan number into three components, Plan suffix which identifies the type of plan and the agency. LRA plans are distinguished by having a (LRA) or (LRC) before the plan type prefix, while DENR plans have the region number after the plan type prefix. This makes the rules for identifying a plan very simple. The only exception being old LRA plans which do not have the (LRA) or (LRC) but these are also easy to identify as they don't have a region number.

The system can also be used for Cadastral plans as the prefix "Cad" is unique. By having one simple system the Standard Parcel Identifier (SPI) rules can be applied to all land parcels and are easily adopted for records found in other agencies. The SPI is a convenient way to match records across agencies however, it is not a unique parcel identifier because as subdivisions occur many SPI numbers refer to the same patch of land. The UPI is based on the parcel number shown on the current CIM. As parcels are

sub-divided, UPI are retired and new numbers created. These rules make it easy to link government land data to any Graphical Information System (GIS) that may be developed.

The separate plan number field also allows the sorting of plans into numeric order if plan pulling lists are required for plans from an agency.

Changes that would be required

The current plan numbers would have to be merged from the cadastral plan and isolated survey plan fields into a single field. The data would then be separated into the three components, plan prefix, plan number and plan suffix, using a program, similar to the one used at PIO2 to break down the LGU survey number. Once the plans have been converted a SPI program (also developed for the LGU) can be run to create the linking SPI field.

2.3 Database Structure

The database has been designed to hold the data for all agencies, but this is beyond the scope of LAMP. LAMP should be able to relate the key index data for an agency to the Cadastral Index Map (CIM), it is not responsible for holding and maintaining the agency data. LAMP has the opportunity to help develop the systems for the agencies and assist them in data capture but these systems belong with the agencies and responsibility for their upkeep must stay with the agency. The important thing which LAMP can achieve is to establish the correct spatial linkage between the systems which allows for the easy exchange of parcel data between agencies.

The linkage should be versatile enough to allow linking to a database system, or to paper records. In many cases the amount of data linked may be small and grow over time, for example as tax declarations are found in the field they will be linked to the land parcels on the CIM. The link between the land parcels and the LGU records will be built over time, however the LGU may never convert their records and not all land records will necessarily have this link. In time the gaps will be filled in as more people use the OSS to transact, or as agencies realise the benefits and make the effort to locate the information, then update the system.

2.3.1 Main Table

It is difficult to determine the main table in the PIO1 database. At PIO2 the (Land) Parcel is the main table. It holds the unique attributes of the land parcel that include the CIM/UIP number, Land Description, Barangay, property address and the area of the parcel. At PIO1 the CIM table appears to be the closest, although it holds redundant information, like TCTno, which is only relevant until the land is transferred.

2.3.2 Agency Systems

The tables currently created to hold the agency data contain the fields that match the data capture screen. This is why we have duplication of the main fields to identify the land and many other components.

Recommendations

The CIM table should be renamed the Parcel Table and should be used as the main linking table for the information in other agencies. Redundant fields held in other agencies should be removed unless they contain information that will not change and is required to assist in linking to that agency.

It is important to capture or create the link between the CIM and this information.

A cross Index structure must be created that holds the key agency data. This should be populated from the records found in the field, agency records and TCT records. The capture of the TCT record from the ROD must be prioritised as this is key data in the LAMP index.

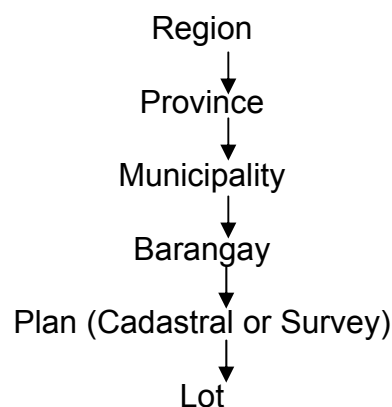
Where an agency has already developed a database system, arrangements should be made to share the data and have it loaded to the index. Where a stand alone system for an agency is established it should contain the main Parcel table linked to the additional tables required for that agency.

If LAMP is required to store data of another agency in its servers (as they do in PIO1), it should be made available to them through a network, using the internet or any other appropriate method.

2.3.3 Duplication of fields in tables

2.3.3.1 Parcel Location

In nearly every table PIO1 uses a hierarchical structure to show the location of a land parcel. The structure is shown below:



This is a lot of duplication throughout the database that PIO1 has constructed.

Recommendation

This structure should be held in the Parcel table then the simple use of the link will ensure that all other tables can be located in this structure. Alternatively each structure down to the Barangay level can be given a unique number and this unique number is held linked to a table that holds the structure. In this way the structure can be called up from the system onto any reports or screens where it is required.

2.3.3.2 Other duplicated data

Land Use

The land use is held in 6 tables, unless the land use is different in different agencies it should be held in the parcel table only.

Area

The area is held in 12 different tables and in the DAR and CENRO they hold the plan area also against individual records. PIO2 use the Survey Plan Inventory System (SPIS) to hold plan information, including plan area, which the parcels are linked to. This may be a better alternative. Parcel area is a problematic area in the Philippines and has been the cause of many disputes. Holding one area against the parcel may be the solution, however it is probably one of the components that each agency should hold to allow the detection of where an incorrect area has been used by agencies and is causing problems in the community.

The naming of the field in the CIM table (which would become the parcel table) is confusing it should be area not plan area.

Barangay and Municipality code and name

As pointed out in 1.3.2.1 these are widely duplicated, however in 9 tables they also hold the names, despite them being held in lookup tables. There is no logical reason to hold such duplication when the name can be shown on reports and screens from the lookup table. Also having these held separately allows for inconsistencies in spelling as the records could be accidentally changed in the database, resulting in a record being displayed that does not match the code. If the name is always displayed from the lookup table it will always be consistent.

Land Status

This is held in 4 tables where it could be held once in the Parcel table.

Patent Number

This is held in 8 tables where it could be held once in the Parcel table and/or against the agency that allocated it. Unless there can be multiple patents lodged over the same land in which case it should be held in a separate table. It also appears in the remarks field of some tables, suggesting this may have been a late addition or that there are multiple lodgings and withdrawals over the same land parcel. If this is the case its structure and use need to be analysed.

TCT number

This is held in 10 tables, however it is one of those linking numbers all agencies require. For a cross index the fact that the Title record is linked to the land parcel is sufficient. However if we are building stand alone tables for the agencies then each would have a requirement for it. The problem is once the title is transferred the TCT number changes and most agencies don't get the new TCT number in their records.

Reconstituted

This is held in 3 tables, but unless the system is different to the one used in Manila this is derivable. In the Quezon City ROD reconstituted TCTs have a prefix of RT. Interestingly the LRA who are responsible for TCT reconstitution have no information about it in their data fields. From this we could conclude that we are only interested in LRA plans or that this is a different type of reconstitution, carried out by another agency.

Tax Declaration Number

This is held in 4 tables and like the TCT number is used by other agencies. For a cross index the fact that the tax declaration record is linked to the land parcel is sufficient. However if we are building stand alone tables for the agencies then each would have a requirement for it. The problem is the same as the title, once the land is transferred the tax declaration number changes and most agencies don't get the new Tax Declaration number in their records.

EPCLOA Number

This is held in 3 tables where it could be held once in the Parcel table, or against the agency that allocated it.

Project Number

This is held in 6 tables and is not defined, if it refers to a parcel it could be held once in the Parcel table.

Source code

This is held in 6 tables and is not defined.

2.3.4 Duplication of Tables

Some tables appear to be totally duplicated and hold redundant information.

Table of adjoining owners

Only one lot number is collected so the table cannot hold the adjoining owner's details. If the link is the IdNo then this can be corrupted when loaded to the main database. This table is then linked to a table holding the names of the adjoining owners. Following this design an owner who lives on a property adjoining 6 other parcels would have their details captured 6 times. The adjoining owners can be derived from the CIM, otherwise a table holding the lot/plan and the adjoining lots plan numbers needs to be used.

Multiple tables collecting the same ownership information

There are 8 tables for the names of owners. One structure holding the agency it belonged to would have been better. Also the address has 6 levels Lot Street then 5 residential address fields. If the person can have 5 separate addresses then this should be a separate linked table. However if this is attempted to break the address into smaller units there are many models for recording addresses that could be adopted.

2.3.5 Confusion over the use of a table

Tables used for the agencies that approve plans seem to be required for two purposes.

DENR

The DENR table holds the Lot number and plan number but also has the number of Lots and records the latitude and longitude. It appears the Lot number should be the lot number being surveyed or subdivided. However this is a limited structure as this only allows for one lot to be subdivided. The latitude and longitude are also confusing, what point are these related to? On the plan or subdivided parcel(s)?

Also a new concept of a Barangay Case number appears. As Barangays can have more than one case then a Barangay Case table is needed to allow the case number to be validated against and ensure data integrity.

There is also a lots pending application number is this a single number or many applications? If it is many it should not be here but in a separate table.

LRA

The LRA table is not well defined either and its purpose is not clear. It also holds the Lot number and plan number but then records decree lots and decree owners. It appears the Lot number should be the lot number the decree is over. But what about LRA subdivisions?

Recommendation

The DENR the LRA requirements must be analysed and each data item defined (data dictionary). Then the correct structure can be designed and implemented.

3 PIO1 Documentation, Training and Data Consistency

3.1 Documentation

There is sparse documentation of the PIO1 systems. The database lacks formal documentation on its design. There appears to be no attempt to have included the documenting of the database in the recent PIO1 documentation activities.

This had lead to a lack of understanding of how the records link together and resulted in the records from different agencies being captured without being linked to each other. To correct the problem linkage is being developed.

The initial design of the system appears to have many weaknesses and the changing of IT staff without a proper hand over, or good system documentation compounds the problem.

The Management of PIO1, as with PIO2, do not understand the system or how it is being used and the management of the system has fallen to the systems analyst. Unfortunately the latest analyst has not been here from the start and has inherited a system that is inadequate to the needs of PIO1 and LAMP. Rather than redesigning the system, it has been patched up, while the analyst tries to understand the design, create proper linkage and the create system documentation.

A secondary system has been developed to capture data in the field, however it is not compatible with the existing system and data cannot be transferred between the two systems.

To date no operational system documentation has been completed.

A third system has been implemented into the OSS to track dealings this system, the only existing documentation is a power point display.

3.2 Training

There is a lack of keying standards in the PIO1 database, this would trace back to not having a consistent training program for users.

3.3 Data Consistency

The result of the lack of keying rules and regulated training is evident in the database tables. The table below is a good illustration

Region	Province	Municipality	Barangay	Barangay Name	Lot Number	Cad Plan No	Isolated Survey Number	Title Number	Area	Land Use	Patent Number	Pending Application	Approved
		2		2039					2,586.00		1472		0
		2		2047					2,757.00				0
		2		2029			Pls 450			0			0
		2		0			Pls 131			0			0
		2		2051						0			0
		3		3027			PSU-224656			0	N-2419		0
		3		3035					2,794.00	0	96-526		0
		3		3009		Cad 407	PSD-08-000049			0	P-30756		0
		3		3009			PSU-229112			0	T-13399		0
		3		3024					468.00	0	3909		0
		3		3024		Cad 407			21,568.00	0	4201		0
		3		3032		Cad 407	CCS-08-000304		49,999.00	0	94-421		0
Region VIII	Leyte	3	Alang-Alang	3013	P. Barrantes	Cad 407			3,647.00		(VIII-1)128		0
		4		4024		Cad 407				0			0
		4		4024		Cad 407				0			0
		4		4024		Cad 407				0			0
		3		3018		Cad 407			2,012.00		277		0
		6		6010			SWO0834400030-D		43,687.00		96-1291		0
		3		3028							20198		0
		3		3004					181.00		94-1058		0
		3		3004			PSD-08-4595				T-14320		0
		3		3028			PSU-232707	T-20215	28.00		87-26775		0
		3		3035					3,220.00				0
		3		3035							2661		0
		3		3035					270.00				0
		5		5002					35,903.00	0	28965		0
									0.00				
									0.00				
Region VIII	Leyte		Alang-Alang		P. Barrantes				6,159.00				

This is an extract from the CENRO table. The Barangay Name and Municipal name are only occasionally entered and some records don't have the codes either. There are records with missing Lot numbers which would help to identifier the land. Some also lack plan numbers, while others have two plan numbers. The ones with Patent numbers could be used to find the additional data but others don't have one.

This poor quality data makes linking records impossible, not that LAMP would want partial records connect like this. We also have inconsistency that cause confusion as below:

Region VIII	Leyte	3	Alang-Alang	3024	P. Barrantes	1	Cad 407		270.00	0	95-272		0
		3		3027		1		PSU-193470		0	P-12602		0
		3		3024		1		CSD-08-000220	1,660.00	0	98-111		0
		3		3032		1	Cad 407	CCS-08-000028	2,262.00	0	93-266		0

Lot 1 on Cad 407 has 207 sq meters, yet there is another lot 1 on Cad 407 with 2,262 sq meters. It is not until the isolated survey is recognised, that it is realised that this is lot one on that plan and that Cad 407 is a historical reference to where the parent lot was situated.

Apart from the partially completed records there are also duplicated entries for the same record. Lots 1160 and 1163 with no plan have been entered twice and probably lot 1161, the second entry to correct the area.

Region	Province	Municipality	Municipality	Barangay	Barangay Name	Lot No.	Cad Plan No.	Isolated Survey No.	Title No.	Area	Land Use	Patent No.	Pending App.	App.
		2		2035		1159		Pls 450		46,893.00	0			0
+ Region VIII	Leyte	2	San Miguel		Malaguinabot	1159				2,298.46				
		2		0		116		Pls 131		2,272.00	0			0
+ Region VIII	Leyte	2	Dagami	2035	Hiabangan	116		Gss 1218		5,720.00	0	465477		(VI-4)
+ Region VIII	Leyte	2	Dagami	2048	Palacio	116		Gss 1215			0			0
		2		2051		116		Pls 450		13,784.00	0			0
+ Region VIII	Leyte		San Miguel		Cayare	116				718.08				
		2		2035		1160		Pls 450		3,566.00	0			0
		3		3028		1160				18,668.00		21255		0
		3		3028		1160				18,668.00		21255		0
+ Region VIII	Leyte		San Miguel		Malaguinabot	1160				11,570.63			F(VIII-H)1967	
		2		2034		1161								0
		2		2035		1161		Pls 450		5,146.00	0			0
		6		6020		1161				21,182.00		97-721		0
		5		5020		1161				7,481.00	0	96-724		0
+ Region VIII	Leyte		San Miguel		Malaguinabot	1161				7,481.17				FPA-
		2		2039		1162		Pls 450		12,764.00	0			0
		3		3028		1162				2,400.00				0
+ Region VIII	Leyte		San Miguel		Malaguinabot	1162				13,069.51				
		2		2035		1163		Pls 450		61,649.00	0			0
		6		6020		1163				10,397.00		98-1027		0
		5		5020		1163				8,793.00	0			0
+ Region VIII	Leyte		San Miguel		Malaguinabot	1163				8,793.10				FPA-
		2		2039		1164		Pls 450		13,389.00	0			0
+ Region VIII	Leyte		San Miguel		Malaguinabot	1164				6,222.05				
		2		2039		1165		Pls 450		37,030.00	0			0
		3		3028		1165				1,419.00		15839		0
+ Region VIII	Leyte		San Miguel		Malaguinabot	1165				10,025.96				
		3		3024		11654				11,213.00	0	98-392		0
		2		2035		1166		Pls 450		18,188.00	0			0

The use of both a Barangay code and a name can always cause inconsistencies as shown below;

+ Region VIII	Leyte	2	Dagami	2039	Hitomnog	134		Gss 1218		29,178.00	0	506375		(VI-4)
+ Region VIII	Leyte	2	Dagami	2048	Hitomnog	134		Gss 1215		11,749.00	0	VIII-4		(VI-4)

The names are the same but the Barangay codes are different. As can happen with Municipalities as shown below:

+ Region VIII	Leyte	2	Dagami	2039	Hitomnog	1346		Pls 450			0			HA-1
+ Region VIII	Leyte		San Miguel		Bairan	1346				9,998.41				F(VIII)
+ Region VIII	Leyte	2	Dagami	2039	Hitomnog	1347		Pls 450			0			FPA-
+ Region VIII	Leyte		San Miguel		Bairan	1347				19,293.96				
+ Region VIII	Leyte	5	Dagami	5008	Hitomnog	1348				48,020.00	0	15128		0

Dagami usually being 2 but in the last entry it is 5, which is the code for San Miguel, even the Barangay has a different code of 5008 in this record.

Recommendation

The data needs to be investigated and cleaned up. Where records are incomplete the information used to capture the record must be sourced and used to fix the record.

4 PIO2 Database

4.1 Review of the PIO2 Database/Cross Index.

The PIO2 cross index is designed to be a link between the data held in other systems. The environment of PIO2 has a mixture of computerised and paper based systems and PIO2 have attempted to find a solution that would suit all systems.

The system is a collection of data that has been downloaded from the assessor's database and data captured from TCTs.

The PIO2 systems also include the BILIS a search system that has been installed in the Barangays and SPIS a plan based system that has be distributed to the DENR and in the future possibly to the LRA.

The data that has been analysed is from a copy of the database supplied on the 23rd March 2004. While access has been granted to the production database it is only available when other users are not on the system and any attempts to access the data during the day are met with the system response:



The connection is a little bit like an internet connection using the same user name and password, the first one to log on has access the others have to wait until they have finished.

The BILIS and SPIS systems have been built independently of the TA and the TA have not been given a copy or had any input to their usage.

There are many unknowns in the cross index as the system was developed as a prototype and has yet to be fully documented. As the TAs do not have full access to all the tables, forms, queries, etc used they have left the documentation of the system to the systems analysts.

However the quality of the data is of paramount importance and this is the area that this report will concentrate on.

4.2 Linking of the data between systems

As LAMP looks to developing a national system that can be used in both Urban and Rural environments the need for a uniform system to link records between agencies becomes paramount. LAMP has looked at a variety of methods to identify consistent links between unique systems. The main problem being that all systems were developed independently and that they each have developed their own unique identifier. The Registry of Deeds uses the TCT number, the LGU the PSPIN and the Tax Declaration numbers, the LRA and DENR the plan number and the BIR has a range of unique identifiers linking the person to a Tax Identification Number (TIN). Within each system they may contain one or more references to the other organisations unique identifier, but this becomes difficult when these are dynamic. For example the TCT number for a parcel of land changes each time the land is transferred. The PSPIN can vary when the land is relocated to another Barangay and the tax declaration number is related to the owner of the land, thus changing when the land is transferred. The TIN for the owner of a property will change when the land is transferred to another person. The most stable component from these systems is the PSPIN, however it is unique to the LGU and not known to any other system. The only component of a land parcel that is stable and held in all systems is the land description. While a parcel is live the land description does not change and is only superseded when the parcel is subdivided or consolidated with other parcels. But this new description then takes over, the old one becoming historical and all systems refer to the new land description. In the urban areas when land is titled the land must be subdivided by a registered plan so all titled land has a land description registered. For this reason the project decided to use the land description as the basis for the linking of the records between agencies.

In rural areas the land is covered by cadastral survey plans, with each allotment being assigned a unique lot number for that cadastral plan. Those allotments can then be subject to an isolated survey plan.

4.3 Standard Parcel Identifier (SPI)

In urban areas the land description consists of three components, the lot number, block number and the plan number. In rural areas it is typically lot and plan number. To facilitate searching and sorting of plans the plan number was broken into three components:

- the plan suffix, usually the reference to the type of plan eg PSD for plan of subdivision, PCS for plan of consolidation. This also contains reference to the agency that approved the plan eg LRA or LRC for the Land Registration authority, or 00, 04 etc for the DENR regions.
- The plan number, purely the numeric component used for sorting the plans into numeric order;
- The plan suffix, used by some DENR plans.

From all of these parts of the plan number a Standard Parcel Identifier or SPI was created.

The Office Validation Manual definition of the SPI is:

“The SPI is based on the fact that all plan numbers should be unique. It is purely used as a linking mechanism between agencies data.

The SPI is a combination of the lot, block, plan type, plan number and plan suffix, separated by a dash (-).

For example the SPI for lot 123 on PSD21997 would be 123-PSD-21997. For lot 34 Block 3 PSD-00-0704-133667-D the SPI would be 34-3- PSD-00-0704-133667-D.

In the earlier capture the (LRC) has been dropped so the SPI for a plan from LRA would be as follows, Lot 28 Block 17 (LRC) PSD 133767, the SPI would be 28-17-PSD-133767. However as the SPI construction has been automated the (LRC) is now being used and the SPI is 28-17-(LRC)PSD-133767.

The SPI is held in each table and will be invisible to the end user of the system who can find records by a variety of methods, notably by the Owner's name, Street Address, Land Description or CIM number.

If a number is duplicated then an alpha (A, B or C) will added to the end of the SPI to keep it unique.”

4.4 Analysis of the creation and use of the SPI in the PIO2 Cross Index

The rules for SPI use are designed to make the SPI a data item that can be created in any system whether it is operated by ROD, LGU, BIR, DENR or LRA.

While the rules appear to be clear that all spaces should be replaced with a dash, it appears the definition left too much room for interpretation. As the following results of analysing the database show there are many variations of when and when not a dash is used, some variations however are fairly consistent, but the rules need to be made simple and straight forward.

After presenting the initial findings on the PIO2 data, a sheet was presented which showed some rules for capturing the lot description. When the land description contains more than one element would be captured with or without a dash after it. However the rules are not consistent and the data keys have not always followed the modified rules, or used their own interpretation.

The variation to the rules have been added because the system creates the SPI from the Land description, then copies the SPI and land description into the TCT record.

These variations in the rules have caused confusion and inconsistency in the data capture and make it difficult for the.

4.4.1 SPIs that contain a Full Stop

At some stage a full stop was added to the land description of the parcels, where the parcel does not have a lot number and may or may not have a block number. The first field and where applicable the second field should have been blank. This rule is not applied when the record has no block, for example Lot 123 on PSD21997 is converted to 123-PSD-21997 not 123-.-PSD-21997. However the introduction of a system requirement for an entry in the lot or block field that has been imposed is causing problems. This requirement has been created as:

```
If IsNull(Lot) And IsNull(Block) Then  
MsgBox ("Please enter a value for lot/block field. Both fields can't be empty at the  
same time.")
```

To overcome this problem the users are forced to put a full stop in the lot field where a lot is not present. This has also caused confusion with the users confused by this rule adding a full stop in the lot and block fields, as is shown by the 4th and 5th entries in the table below. The result is that the SPI now is .-.-{Plan number}. This is the type of inconsistency that is difficult to determine across systems and the reason why simple rules which do not vary for a particular circumstance are needed.

A full stop has also been used after the short hand S-BLK, and for abbreviations of ST and PE. These should not contain punctuation as the base documents will vary between agencies and matching will become impossible.

SPI		
8-3 S-BLK. 7-PCS-00-010130	10-3 S-BLK. 10-PCS-00-010130	23-1 S-BLK. 2-PCS-00-010225
.(LRC)PSU-16	10-3 S-BLK. 1-PCS-00-010130	23-2 S-BLK. 4-PCS-00-010225
.(LRC)PSU-18	10-3 S-BLK. 7-PCS-00-010130	23-2 S-BLK. 6-PCS-00-010225
.-.PCN-007404-000505-D	1-1 S-BLK. 5-PCS-00-010225	24-2 S-BLK. 4-PCS-00-010225
.-.SWO-04-000494	1-1 S-BLK. 1-PCS-00-010225	24-2 S-BLK. 6-PCS-00-010225
.-1-(LRC)PCS-10318	1-1 S-BLK. 2-PCS-00-010225	25-2 S-BLK. 4-PCS-00-010225
.-1-(LRC)PSD-4785	1-1 S-BLK. 3-PCS-00-010225	26-2 S-BLK. 4-PCS-00-010225
.-10-PCS-3088	1-1 S-BLK. 4-PCS-00-010225	26-2 S-BLK. 6-PCS-00-010225
.-10-PSD-00-057975	11-1 S-BLK. 1-PCS-00-010225	27-2 S-BLK. 4-PCS-00-010225
.-10-PSD-13-009025	11-1 S-BLK. 2-PCS-00-010225	28-2 S-BLK. 4-PCS-00-010225
.-11-PCS-00-009519	11-1 S-BLK. 3-PCS-00-010225	29-2 S-BLK. 4-PCS-00-010225
.-11-PCS-00-010087	11-1 S-BLK. 4-PCS-00-010225	3-1 S-BLK. 1-PCS-00-010225
.-11-PCS-00-010642	11-2 S-BLK. 1-PCS-00-010225	3-1 S-BLK. 2-PCS-00-010225
.-11-PSD-00-060752	11-2 S-BLK. 4-PCS-00-010225	3-1 S-BLK. 3-PCS-00-010225
.-11-PSD-13-000409	11-2 S-BLK. 5-PCS-00-010225	3-1 S-BLK. 4-PCS-00-010225
.-11-PSD-13-009025	11-3 S-BLK. 10-PCS-00-010130	3-1 S-BLK. 5-PCS-00-010225
.-12-PCS-00-006747	11-3 S-BLK. 1-PCS-00-010130	31-3 S-BLK. 1-PCS-00-010130
.-12-PCS-00-010050	11-3 S-BLK. 3-PCS-00-010130	3-2 S-BLK. 1-PCS-00-010225
.-12-PCS-00-010081	11-3 S-BLK. 7-PCS-00-010130	3-2 S-BLK. 2-PCS-00-010225
.-12-PCS-00-010087	1-2 S-BLK. 1-PCS-00-010225	3-2 S-BLK. 3-PCS-00-010225
.-13-(LRC)PSD-5235	1-2 S-BLK. 2-PCS-00-010225	3-2 S-BLK. 4-PCS-00-010225
.-13-PCS-00-006728	1-2 S-BLK. 3-PCS-00-010225	3-2 S-BLK. 5-PCS-00-010225
.-13-PCS-00-010050	1-2 S-BLK. 4-PCS-00-010225	3-2 S-BLK. 6-PCS-00-010225
.-13-PSD-00-039637	1-2 S-BLK. 5-PCS-00-010225	3-2 S-BLK. 7-PCS-00-010225
.-13-PSD-00-050213	1-2 S-BLK. 6-PCS-00-010225	3-3 S-BLK. 10-PCS-00-010130
.-13-PSD-57683	1-2 S-BLK. 7-PCS-00-010225	3-3 S-BLK. 4-PCS-00-010130
.-14-PCS-00-010087	12-1 S-BLK. 1-PCS-00-010225	3-3 S-BLK. 5-PCS-00-010130

SPI		
.-15-PCS-00-010087	12-1 S-BLK. 2-PCS-00-010225	3-3 S-BLK. 6-PCS-00-010130
.-16-PCS-00-010087	12-1 S-BLK. 3-PCS-00-010225	3-3 S-BLK. 7-PCS-00-010130
.-16-PCS-2874	12-1 S-BLK. 4-PCS-00-010225	3-3 S-BLK. 8-PCS-00-010130
.-17-PCS-007404-003985-D	12-2 S-BLK. 1-PCS-00-010225	4-1 S-BLK. 1-PCS-00-010225
.-17-PCS-2874	12-2 S-BLK. 4-PCS-00-010225	4-1 S-BLK. 2-PCS-00-010225
.-17-PSD-13-000409	12-2 S-BLK. 6-PCS-00-010225	4-1 S-BLK. 3-PCS-00-010225
.-1-PCS-00-008971	12-3 S-BLK. 10-PCS-00-010130	4-1 S-BLK. 4-PCS-00-010225
.-1-PCS-008971	12-3 S-BLK. 1-PCS-00-010130	4-1 S-BLK. 5-PCS-00-010225
.-1-PSD-13-016698	12-3 S-BLK. 3-PCS-00-010130	4-2 S-BLK. 1-PCS-00-010225
.-1-PSD-42966	12-3 S-BLK. 7-PCS-0-010130	4-2 S-BLK. 2-PCS-00-010225
.-2-(LRC)PCS-2435	13- 1 S-BLK. 1-PCS-00-010225	4-2 S-BLK. 3-PCS-00-010225
.-2-(LRC)PCS-5409	1-3 S-BLK. 10-PCS-00-010130	4-2 S-BLK. 4-PCS-00-010225
.-2-(LRC)PSD-184161	1-3 S-BLK. 4-PCS-00-010130	4-2 S-BLK. 5-PCS-00-010225
.-2-(LRC)PSD-4785	1-3 S-BLK. 5-PCS-00-010130	4-2 S-BLK. 6-PCS-00-010225
.-20-PSD-007404-023961-D	1-3 S-BLK. 6-PCS-00-010130	4-2 S-BLK. 7-PCS-00-010225
.-22-PCS-13-000571	1-3 S-BLK. 7-PCS-00-010130	4-3 S-BLK. 10-PCS-00-010130
.-23-PCS-00-006728	1-3 S-BLK. 8-PCS-00-010130	4-3 S-BLK. 1-PCS-00-010130
.-24-PSD-007404-023961-D	13-1 S-BLK. 2-PCS-00-010225	4-3 S-BLK. 4-PCS-00-010130
.-25-PCS-00-006728	13-1 S-BLK. 3-PCS-000-010225	4-3 S-BLK. 5-PCS-00-010130
.-25-PSD-007404-023961-D	13-1 S-BLK. 4-PCS-00-010225	4-3 S-BLK. 6-PCS-00-010130
.-26-PCS-00-006286	13-2 S-BLK. 1-PCS-00-010225	4-3 S-BLK. 8-PCS-00-010130
.-27-PCS-00-006728	13-2 S-BLK. 4-PCS-00-010225	4-3 S-BLK. 9-PCS-00-010130
.-28-PCS-00-006728	13-2 S-BLK. 6-PCS-00-010225	4-3 S-BLK.7-PCS-00-010130
.-2A-PCS-007404-003985-D	13-3 S-BLK. 10-PCS-00-010130	5-1 S-BLK. 4-PCS-00-010225
.-2-PCS-00-010082	13-3 S-BLK. 1-PCS-00-010130	5-1 S-BLK. 1-PCS-00-010225
.-2-PCS-007404-005821-D	13-3 S-BLK. 3-PCS-00-010130	5-1 S-BLK. 2-PCS-00-010225
.-2-PSD-00-055446	14-1 S-BLK. 1-PCS-00-010225	5-1 S-BLK. 3-PCS-00-010225
.-3-(LRC)PSD-4785	14-1 S-BLK. 2-PCS-00-010225	5-1 S-BLK. 5-PCS-00-010225

SPI		
.-32-PCS-00-006286	14-1 S-BLK. 3-PCS-00-010225	5-2 S-BLK. 1-PCS-00-010225
.-33-PSD-13-000335	14-1 S-BLK. 4-PCS-00-010225	5-2 S-BLK. 2-PCS-00-010225
.-34-PCS-00-006286	14-2 S-BLK. 4-PCS-00-010225	5-2 S-BLK. 3-PCS-00-010225
.-34-PCS-00-006728	14-2 S-BLK. 6-PCS-00-010225	5-2 S-BLK. 4-PCS-00-010225
.-34-PSD-13-000335	14-3 S-BLK. 10-PCS-00-010130	5-2 S-BLK. 5-PCS-00-010225
.-35-PCS-00-006286	14-3 S-BLK. 1-PCS-00-010130	5-2 S-BLK. 6-PCS-00-010225
.-35-PSD-13-000335	14-3 S-BLK. 3-PCS-00-010130	5-2 S-BLK. 7-PCS-00-010225
.-36-PSD-13-000335	15-1 S-BLK. 1-PCS-00-010225	5-3 S-BLK. 10-PCS-00-010130
.-37-PCS-00-006286	15-1 S-BLK. 2-PCS-00-010225	5-3 S-BLK. 1-PCS-00-010130
.-37-PSD-13-000335	15-1 S-BLK. 3-PCS-00-010225	5-3 S-BLK. 4-PCS-00-010130
.-38-PCS-00-006286	15-1 S-BLK. 4-PCS-00-010225	5-3 S-BLK. 5-PCS-00-010130
.-38-PSD-13-000335	15-2 S-BLK. 1-PCS-00-010225	5-3 S-BLK. 6-PCS-00-010130
.-39-PSD-13-000335	15-2 S-BLK. 4-PCS-00-010225	5-3 S-BLK. 7-PCS-00-010130
.-3A1-PCS-13-000132	15-2 S-BLK. 6-PCS-00-010225	5-3 S-BLK. 8-PCS-00-010130
.-3A-PSD-00-057975	15-3 S-BLK. 10-PCS-00-010130	6-1 S-BLK. 1-PCS-00-010225
.-3-PCS-00-008971	15-3 S-BLK. 1-PCS-00-010130	6-1 S-BLK. 2-PCS-00-010225
.-3-PCS-00-008981	15-3 S-BLK. 3-PCS-00-010130	6-1 S-BLK. 3-PCS-00-010225
.-3-PCS-00-010082	16-1 S-BLK. 1-PCS-00-010225	6-1 S-BLK. 4-PCS-00-010225
.-3-PCS-00-010225	16-1 S-BLK. 2-PCS-00-010225	6-1 S-BLK. 5-PCS-00-010225
.-3-PCS-007404-004828-D	16-1 S-BLK. 3-PCS-00-010225	6-2 S-BLK. 1-PCS-00-010225
.-3-PSD-00-039637	16-1 S-BLK. 4-PCS-00-010225	6-2 S-BLK. 2-PCS-00-010225
.-3-PSD-00-055033	16-2 S-BLK. 1-PCS-00-010225	6-2 S-BLK. 3-PCS-00-010225
.-3-PSD-00-055261	16-2 S-BLK. 4-PCS-00-010225	6-2 S-BLK. 4-PCS-00-010225
.-3-PSD-13-005565	16-2 S-BLK. 6-PCS-00-010225	6-2 S-BLK. 5-PCS-00-010225
.-3-PSD-13-016698	16-3 S-BLK. 10-PCS-00-010130	6-2 S-BLK. 7-PCS-00-010225
.-40-PSD-13-000335	16-3 S-BLK. 3-PCS-00-010130	6-3 S-BLK. 10-PCS-00-010130
.-41-PSD-13-000335	17-1 S-BLK. 1-PCS-00-010225	6-3 S-BLK. 1-PCS-00-010130
.-42-PSD-13-000335	17-1 S-BLK. 2-PCS-00-010225	6-3 S-BLK. 4-PCS-00-010130

SPI		
.-43-PSD-13-000335	17-1 S-BLK. 3-PCS-00-010225	6-3 S-BLK. 8-PCS-00-010130
.-44-PSD-13-000335	17-2 S-BLK. 4-PCS-00-010225	6-3 S-BLK. 9-PCS-00-010130
.-4-PCS-00-008971	17-3 S-BLK. 10-PCS-00-010130	6-3 S-BLK.7-PCS-00-010130
.-4-PCS-00-008981	17-3 S-BLK. 1-PCS-00-010130	6-S-BLK. 6-PCS-00-010225
.-4-PCS-00-010130	17-3 S-BLK. 3-PCS-00-010130	7-1 S-BLK. 1-PCS-00-010225
.-4-PCS-00-010225	18-1 S-BLK. 2-PCS-00-010225	7-1 S-BLK. 2-PCS-00-010225
.-4-PCS-008971	18-1 S-BLK. 3-PCS-00-010225	7-1 S-BLK. 3-PCS-00-010225
.-4-PSD-00-055033	18-2 S-BLK. 4-PCS-00-010225	7-1 S-BLK. 4-PCS-00-010225
.-5-(LRC)PSD-131903	18-2 S-BLK. 6-PCS-00-010225	7-1 S-BLK. 5-PCS-00-010225
.-5-PCS-00-008981	18-3 S-BLK. 10-PCS-00-010130	7-2 S-BLK. 1-PCS-00-010225
.-5-PCS-00-010081	18-3 S-BLK. 1-PCS-00-010130	7-2 S-BLK. 2-PCS-00-010225
.-5-PCS-00-010130	19-1 S-BLK. 2-PCS-00-010225	7-2 S-BLK. 3-PCS-00-010225
.-5-PCS-00-010225	19-1 S-BLK. 3-PCS-00-010225	7-2 S-BLK. 4-PCS-00-010225
.-5-PSD-00-055032	19-2 S-BLK. 4-PCS-00-010225	7-2 S-BLK. 5-PCS-00-010225
.-5-PSD-007404-026437-D	19-2 S-BLK. 6-PCS-00-010225	7-2 S-BLK. 6-PCS-00-010225
.-5-PSD-13-017822	19-3 S-BLK. 10-PCS-00-010130	7-3 S-BLK. 10-PCS-00-010130
.-6-PCS-00-007381	19-3 S-BLK. 1-PCS-00-010130	7-3 S-BLK. 1-PCS-00-010130
.-6-PCS-00-008981	20-1 S-BLK. 2-PCS-00-010225	7-3 S-BLK. 7-PCS-00-010130
.-6-PCS-00-010130	20-2 S-BLK. 4-PCS-00-010225	7-3 S-BLK. 8-PCS-00-010130
.-6-PCS-3834	20-2 S-BLK. 6-PCS-00-010225	7-3 S-BLK. 9-PCS-00-010130
.-7-(LRC)PCS-2435	20-3 S-BLK. 10-PCS-00-010130	8-1 S-BLK. 1-PCS--00-010225
.-7-PCS-00-007381	2-1 S-BLK. 1-PCS-00-010225	8-1 S-BLK. 2-PCS-00-010225
.-7-PCS-13-000990	2-1 S-BLK. 2-PCS-00-010225	8-1 S-BLK. 3-PCS-00-010225
.-7-PSD-55779	2-1 S-BLK. 3-PCS-00-010225	8-1 S-BLK. 4-PCS-00-010225
.-8-(LRC)PCS-10318	2-1 S-BLK. 4-PCS-00-010225	8-1 S-BLK. 5-PCS-00-010225
.-8-(LRC)PSD-14852	2-1 S-BLK. 5-PCS-00-010225	8-2 2-BLK. 6-PCS-00-010225
.-8-PCS-00-007381	21-1 S-BLK. 2-PCS-00-010225	8-2 S-BLK. 1-PCS-00-010225
.-8-PCS-3088	21-2 S-BLK. 4-PCS-00-010225	8-2 S-BLK. 2-PCS-00-010225

SPI		
.-8-PSD-00-057975	21-2 S-BLK. 6-PCS-00-010225	8-2 S-BLK. 4-PCS-00-010225
.-9-PSD-00-057975	21-3 S-BLK. 10-PCS-00-010130	8-2 S-BLK. 5-PCS-00-010225
.-BCN-13-000009	2-2 S-BLK. 1-PCS-00-010225	8-3 S-BLK. 10-PCS-00-010130
.-PCN-00-000636	2-2 S-BLK. 2-PCS-00-010225	8-3 S-BLK. 1-PCS-00-010130
.-PCN-00-000811	2-2 S-BLK. 3-PCS-00-010225	8-3 S-BLK. 9-PCS-00-010130
.-PCN-00-000844	2-2 S-BLK. 4-PCS-00-010225	9-1 S-BLK. 1-PCS-00-010225
.-PCN-00-000964	2-2 S-BLK. 5-PCS-00-010225	9-1 S-BLK. 2-PCS-00-010225
.-PCN-00-001044	2-2 S-BLK. 6-PCS-00-010225	9-1 S-BLK. 3-PCS-00-010225
.-PCN-007404-000449-D	2-2 S-BLK. 7-PCS-00-010225	9-1 S-BLK. 4-PCS-00-010225
.-PCN-007404-000505-D	22-1 S-BLK. 2-PCS-00-010225	9-1 S-BLK. 5-PCS-00-010225
.-RS-00-000547	22-2 S-BLK. 4-PCS-00-010225	9-2 S-BLK. 1-PCS-00-010225
.-RS-007404-000275-D	22-2 S-BLK. 6-PCS-00-010225	9-2 S-BLK. 2-PCS-00-010225
10-1 S-BLK. 1-PCS-00-010225	2-3 S-BLK. 10-PCS-00-010130	9-2 S-BLK. 4-PCS-00-010225
10-1 S-BLK. 2-PCS-00-010225	2-3 S-BLK. 1-PCS-00-010130	9-2 S-BLK. 5-PCS-00-010225
10-1 S-BLK. 3-PCS-00-010225	2-3 S-BLK. 4-PCS-00-010130	9-3 S-BLK. 10-PCS-00-010130
10-1 S-BLK. 4-PCS-00-010225	2-3 S-BLK. 5-PCS-00-010130	9-3 S-BLK. 1-PCS-00-010130
10-2 S-BLK. 1-PCS-00-010225	2-3 S-BLK. 6-PCS-00-010130	9-3 S-BLK. 7-PCS-00-010130
10-2 S-BLK. 4-PCS-00-010225	2-3 S-BLK. 7-PCS-00-010130	9-3 S-BLK. 9-PCS-00-010130
10-2 S-BLK. 5-PCS-00-010225	2-3 S-BLK. 8-PCS-00-010130	P.E. 66-6-PCS-13-000007
10-2 S-BLK. 6-PCS-00-010225	2-3 S-BLK. 9-PCS-00-010130	ST. PETER RD LOT 8-PSD-34147

4.4.2 SPIs with Spaces

There are 2617 records in the PIO2 database that contain a Space. Some have come about as a result of keying errors the others are the result of the additional rules created.

Where a name such as Alley Road etc is used for some reason the dash has been dropped, however this is also not consistent where it has occurred. In the following table ALLEY has been enquired on. Where the entry has been highlighted **yellow** it has been captured as per the specification occurred, where it is highlighted **magenta** the dash occurs either after the ALLEY or before it but there are still gaps. The difference appears to be when ALLEY is not the first word. Where ALLEY is the first word the dash has consistently not been used, these entries are not highlighted.

SPI		
1 ALLEY-(LRC)PCS-27933	ALLEY 1-PSD-00-052513	ALLEY 41C2N219-PSD-00-056232
10 ALLEY-3-PSD-00-040429	ALLEY 1-PSD-00-054187	ALLEY 41C2N220-PSD-00-056232
11F-ALLEY-(LRA)PSD-357043	ALLEY 1-PSD-00-055032	ALLEY 41C2N221-PSD-00-056232
125-ALLEY-1-PCS-00-008981	ALLEY 1-PSD-00-055034	ALLEY 41C2N222-PSD-00-056232
126 ALLEY-1-PCS-00-008981	ALLEY 1-PSD-00-057975	ALLEY 41C2N223-PSD-00-056232
127 ALLEY-1-PCS-00-008981	ALLEY 1-PSD-00-060752	ALLEY 41C2N224-PSD-00-056232
128 ALLEY-1-PCS-00-008981	ALLEY 1-PSD-007404-026437-D	ALLEY 41C2N225-PSD-00-056232
129 ALLEY-1-PCS-00-008981	ALLEY 1-PSD-007404-033186-D	ALLEY 41C2N226-PSD-00-056232
12B4-ALLEY-PSD-00-042775	ALLEY 1-PSD-13-005821	ALLEY 41-PCS-00-010642
130 ALLEY-1-PCS-00-008981	ALLEY 1-PSD-13-017822	ALLEY 43-4-PCS-13-000571
131 ALLEY-1-PCS-00-008981	ALLEY 1-PSD-55779	ALLEY 4-3-PCS-00-010130
132 ALLEY-1-PCS-00-008981	ALLEY 2-(LRA)PCS-31383	ALLEY 43-PCS-04-000133
133 ALLEY-1-PCS-00-008981	ALLEY 2-(LRC)PSD-133236	ALLEY 44-15-(LRC)PCS-17435
134 ALLEY-1-PCS-00-008981	ALLEY 20-(LRC)PSD-53960	ALLEY 4-8-PSD-55779
14C3-ALLEY-(LRC)PSD-319043	ALLEY 20-12-PCS-007404-004826-D	ALLEY 4-PCS-00-008981
15 ALLEY-1-PSD-00-040429	ALLEY 20-PCS-00-010642	ALLEY 4-PCS-00-010087
16D-ALLEY-(LRC)PSD-338389	ALLEY 20R-PSD-007404-024355-D	ALLEY 4-PCS-00-010642
17 ALLEY-6-PSD-00-040429	ALLEY 21D-(LRC)PSD-319771	ALLEY 4-PCS-007404-005820-D
172 ALLEY-2-PCS-00-008981	ALLEY 21-PCS-00-010642	ALLEY 4-PCS-13-000355
173 ALLEY-2-PCS-00-008981	ALLEY 21-PCS-13-000291	ALLEY 4-PSD-00-033472
174 ALLEY-2-PCS-00-008981	ALLEY 22-PCS-00-010642	ALLEY 4-PSD-00-040429
175 ALLEY-2-PCS-00-008981	ALLEY 22-PCS-13-000291	ALLEY 4-PSD-00-043505
176 ALLEY-2-PCS-00-008981	ALLEY 22-PCS-13-001542	ALLEY 4-PSD-00-050213
177 ALLEY-2-PCS-00-008981	ALLEY 23-(LRC)PSD-5235	ALLEY 4-PSD-00-052013
178 ALLEY-2-PCS-00-008981	ALLEY 23-7-PCS-007404-003764-D	ALLEY 4-PSD-00-052513
179 ALLEY-2-PCS-00-008981	ALLEY 2-3-PCS-00-010130	ALLEY 4-PSD-00-054187
179 ALLEY-PCS-00-008981	ALLEY 23-PCS-00-010642	ALLEY 4-PSD-00-057975

SPI		
17E-ALLEY-(LRA)PSD-347953	ALLEY 23-PCS-13-001542	ALLEY 4-PSD-00-060752
180 ALLEY-2-PCS-00-008981	ALLEY 2-4-(LRC)PCS-1827	ALLEY 4-PSD-007404-026437-D
181 ALLEY-2-PCS-00-008981	ALLEY 24-9-PCS-13-001542	ALLEY 4-PSD-007404-033186-D
182 ALLEY-2-PCS-00-008981	ALLEY 24-PCS-00-010642	ALLEY 4-PSD-13-000335
183 ALLEY-2-PCS-00-008981	ALLEY 25-2-PCS-13-000571	ALLEY 4-PSD-13-005821
184 ALLEY-2-PCS-00-008981	ALLEY 25-PCS-00-010642	ALLEY 4-PSD-13-017822
185 ALLEY-2-PCS-00-008981	ALLEY 25-PCS-13-001542	ALLEY 5-(LRC)PSD-133236
186 ALLEY-2-PCS-00-008981	ALLEY 26-(LRC)PCS-17435	ALLEY 51-PCS-13-000355
187 ALLEY-2-PCS-00-008981	ALLEY 26-19-(LRC)PCS-3003	ALLEY 5-3-PCS-00-010130
1C-ALLEY-PSD-00-034810	ALLEY 26-3-PCS-13-002811	ALLEY 5-3-PCS-007404-005820-D
20B5-ALLEY-PSD-00-043512	ALLEY 26-PCS-00-010642	ALLEY 55-34-(LRC)PCS-16631
21-ALLEY-3-PCS-13-000297	ALLEY 26-PCS-13-002811	ALLEY 56-PCS-13-002811
21H-ALLEY-PSD-007404-033103-D	ALLEY 26-PSD-36120	ALLEY 5-9-PSD-55779
22-1 ALLEY-PCS-13-000297	ALLEY 27-22-PCS-2874	ALLEY 5I-PSD-13-014211
22H ALLEY-PSD-00-058451	ALLEY 27-3-PCS-13-002811	ALLEY 5-PCS-00-010087
23B2D-ALLEY-(LRA)PSD-363251	ALLEY 27-PCS-00-010642	ALLEY 5-PCS-00-010642
25B5 ALLEY-PSD-007404-025148-D	ALLEY 28-20-PCS-13-000571	ALLEY 5-PCS-007404-005820-D
28M-Alley-PSD-007404-022865-D	ALLEY 28B23-PSD-007404-024632-D	ALLEY 5-PCS-13-003444
2A7-ALLEY-PSD-007404-031359-D	ALLEY 28-PCS-00-010642	ALLEY 5-PSD-00-033472-D
30-2 ALLEY-PCS-13-000297	ALLEY 29-(LRC)PCS-11064	ALLEY 5-PSD-00-040429
3-ALLEY-PCS-007404-005334-D	ALLEY 29-1-(LRC)PCS-11064	ALLEY 5-PSD-00-050213
3F-ALLEY-PSD-00-037230	ALLEY 29-PCS-00-010642	ALLEY 5-PSD-00-052513
5 ALLEY-PCS-13-003444	ALLEY 29-PCS-007404-003985-D	ALLEY 5-PSD-00-054187
5-ALLEY-PCS-007404-004396-D	ALLEY 2-PCS-00-009519	ALLEY 5-PSD-00-057975
7-ALLEY-(LRC)PCS-30668	ALLEY 2-PCS-00-010050	ALLEY 5-PSD-00-060752
7G ALLEY-(LRA)PSD-354786	ALLEY 2-PCS-00-010081	ALLEY 5-PSD-007404-033186-D
8E-ALLEY-PSD-13-010124	ALLEY 2-PCS-00-010087	ALLEY 5-PSD-13-000335
8I ALLEY-(LRA)PSD-354725	ALLEY 2-PCS-00-010225	ALLEY 5-PSD-13-005821

SPI		
8J-ALLEY-(LRA)PSD-356026	ALLEY 2-PCS-00-010642	ALLEY 5-PSD-13-017822
9D ALLEY-PSD-007404-025810-D	ALLEY 2-PCS-007404-005820-D	ALLEY 6-(LRC)PSD-133236
ALLEY 1-(LRC)PCS-1827	ALLEY 2-PCS-007404-005821-D	ALLEY 62-PCS-04-000133
ALLEY 1-(LRC)PSD-133236	ALLEY 2-PCS-13-000355	ALLEY 6-3-PCS-00-010130
ALLEY 10-PCS-00-010642	ALLEY 2-PCS-13-000359	ALLEY 65-PCS-13-002811
ALLEY 10-PSD-00-040429	ALLEY 2-PCS-13-002084	ALLEY 67-10-PCS-007404-003985-D
ALLEY 10-PSD-13-005821	ALLEY 2-PCS-13-002085	ALLEY 68-10-PCS-007404-003985-D
ALLEY 11-2-(LRC)PCS-11064	ALLEY 2-PSD-00-033472	ALLEY 6G-PSD-007404-028877-D
ALLEY 113-2-PSD-00-055033	ALLEY 2-PSD-00-040429	ALLEY 6-PCS-00-010087
ALLEY 1-19-PCS-00-006286	ALLEY 2-PSD-00-043505	ALLEY 6-PCS-00-010642
ALLEY 111-PSD-00-059914	ALLEY 2-PSD-00-050213	ALLEY 6-PCS-007404-004788-D
ALLEY 11-PCS-00-010642	ALLEY 2-PSD-00-052513	ALLEY 6-PSD-00-033472
ALLEY 11-PCS-13-001014	ALLEY 2-PSD-00-054187	ALLEY 6-PSD-00-040429
ALLEY 11-PSD-007404-003318-D	ALLEY 2-PSD-00-055032	ALLEY 6-PSD-00-050213
ALLEY 11-PSD-13-005821	ALLEY 2-PSD-00-057975	ALLEY 6-PSD-00-052513
ALLEY 124-PCS-00-008981	ALLEY 2-PSD-00-060752	ALLEY 6-PSD-00-054187
ALLEY 125-PCS-00-008981	ALLEY 2-PSD-007404-026437-D	ALLEY 6-PSD-00-060752
ALLEY 126-PCS-00-008981	ALLEY 2-PSD-007404-033186-D	ALLEY 6-PSD-007404-033186-D
ALLEY 127-PCS-00-008981	ALLEY 2-PSD-13-000335	ALLEY 6-PSD-13-005821
ALLEY 128-PCS-00-008981	ALLEY 2-PSD-13-005821	ALLEY 6-PSD-13-017822
ALLEY 129-PCS-00-008981	ALLEY 2-PSD-13-017822	ALLEY 7-(LRC)PSD-133236
ALLEY 12-PCS-00-010642	ALLEY 2-PSD-55779	ALLEY 74-10-PCS-007404-003985-D
ALLEY 12-PSD-13-005821	ALLEY 3-(LRC)PSD-133236	ALLEY 74-14-(LRC)PCS-16631
ALLEY 12-PSD-34147	ALLEY 30-2-(LRC)PSD-14852	ALLEY 75-10-PCS-007404-003985-D
ALLEY 1-3-(LRC)PSD-131903	ALLEY 30-PCS-00-010642	ALLEY 7-8-(LRC)PSD-184161
ALLEY 130-PCS-00-008981	ALLEY 30-PCS-13-000291	ALLEY 7-PCS-00-010087
ALLEY 131-PCS-00-008981	ALLEY 30-PSD-36120	ALLEY 7-PCS-00-010642
ALLEY 132-PCS-00-008981	ALLEY 31-4-(LRC)PSD-14852	ALLEY 7-PSD-00-033472

SPI		
ALLEY 13-2-PSD-34147	ALLEY 31-PCS-00-010642	ALLEY 7-PSD-00-040429
ALLEY 133-PCS-00-008981	ALLEY 32-PCS-00-010642	ALLEY 7-PSD-00-050213
ALLEY 134-PCS-00-008981	ALLEY 3-3-(LRC)PCS-1827	ALLEY 7-PSD-00-052513
ALLEY 1-3-PCS-00-010130	ALLEY 33-(LRC)PCS-3003	ALLEY 7-PSD-00-054187
ALLEY 13-PCS-00-010642	ALLEY 33-10-(LRC)PCS-1011	ALLEY 7-PSD-00-060752
ALLEY 14D-PSD-13-019569	ALLEY 3-3-PCS-00-010130	ALLEY 7-PSD-007404-033186-D
ALLEY 14-PCS-00-010642	ALLEY 33-PCS-00-010642	ALLEY 7-PSD-13-005821
ALLEY 15-PCS-00-010642	ALLEY 33-PCS-007404-004867-D	ALLEY 7-PSD-13-017822
ALLEY 15-PCS-0-010642	ALLEY 33-PSD-36120	ALLEY 7-PSD-36120
ALLEY 15-PCS-007404-005852-D	ALLEY 34-6-(LRC)PCS-17435	ALLEY 8-1-(LRC)PSD-184161
ALLEY 15-PSD-00-040429	ALLEY 34-PCS-00-010642	ALLEY 81-1-PCS-00-010130
ALLEY 15-PSD-36120	ALLEY 35-PCS-00-010642	ALLEY 82-1-PCS-00-010130
ALLEY 16-(LRC)PSD-53960	ALLEY 36-PCS-00-010642	ALLEY 82-2-PCS-00-010130
ALLEY 16D-1-(LRC)PSD-12971	ALLEY 36-PCS-007404-004866-D	ALLEY 83-2-PCS-00-010130
ALLEY 16-PCS-00-010642	ALLEY 37-6A-PCS-13-000132	ALLEY 84-2-PCS-00-010130
ALLEY 16-PSD-04-001728	ALLEY 37-PCS-00-010642	ALLEY 8E-PSD-13-010124
ALLEY 171-PCS-00-008981	ALLEY 38-PCS-00-010642	ALLEY 8J-(LRA)PSD-356026
ALLEY 172-PCS-00-008981	ALLEY 39-3-PCS-04-000133	ALLEY 8-PCS-00-010087
ALLEY 173-PCS-00-008981	ALLEY 39-4-PCS-13-002056	ALLEY 8-PCS-00-010642
ALLEY 174-PCS-00-008981	ALLEY 39-7-(LRC)PCS-17435	ALLEY 8-PSD-00-050213
ALLEY 175-PCS-00-008981	ALLEY 39-PCS-00-010642	ALLEY 8-PSD-00-052513
ALLEY 176-PCS-00-008981	ALLEY 3G-PSD-007404-022920-D	ALLEY 8-PSD-00-060752
ALLEY 177-PCS-00-008981	ALLEY 3-PCS-00-010087	ALLEY 8-PSD-13-005821
ALLEY 178-PCS-00-008981	ALLEY 3-PCS-00-010642	ALLEY 8-PSD-13-017822
ALLEY 179-PCS-00-008981	ALLEY 3-PCS-007404-005820-D	ALLEY 90-6-PCS-007404-003985-D
ALLEY 17-9-PCS-13-002811	ALLEY 3-PCS-007404-005821-D	ALLEY 91-6-PCS-007404-003985-D
ALLEY 17-PCS-00-010642	ALLEY 3-PCS-13-000355	ALLEY 92-6-PCS-007404-003985-D
ALLEY 17-PSD-00-010429	ALLEY 3-PSD-00-033472-D	ALLEY 9-PCN-007404-000505-D

SPI		
ALLEY 18-(LRC)PCS-2435	ALLEY 3-PSD-00-040429	alley 9-pcs-00-010642
ALLEY 18-(LRC)PSD-5235	ALLEY 3-PSD-00-043505	ALLEY 9-PSD-00-060752
ALLEY 180-PCS-00-008981	ALLEY 3-PSD-00-050213	ALLEY 9-PSD-13-005821
ALLEY 181-PCS-00-008981	ALLEY 3-PSD-00-054187	ALLEY A-(LRC)PSD-133236
ALLEY 182-PCS-00-008981	ALLEY 3-PSD-00-055032	ALLEY LOT 1-PSD-00-000409
ALLEY 183-PCS-00-008981	ALLEY 3-PSD-00-057975	ALLEY LOT 1-PSD-007404-033186-D
ALLEY 184-PCS-00-008981	ALLEY 3-PSD-00-060752	ALLEY LOT 2-PSD-007404-033186-D
ALLEY 185-PCS-00-008981	ALLEY 3-PSD-007404-026437-D	ALLEY LOT 3-PSD-007404-033186-D
ALLEY 186-PCS-00-008981	ALLEY 3-PSD-007404-033186-D	ALLEY LOT 4-PSD-00-040429
ALLEY 187-PCS-00-008981	ALLEY 3-PSD-13-000335	ALLEY LOT 4-PSD-007404-033186-D
ALLEY 18-PCS-00-010642	ALLEY 3-PSD-13-005821	ALLEY LOT 5-PSD-00-040429
ALLEY 18-PSD-04-003762	ALLEY 3-PSD-13-017822	ALLEY LOT 5-PSD-007404-033186-D
ALLEY 19-(LRC)PSD-5235	ALLEY 3-PSD-55779	ALLEY LOT 6-PSD-00-040429
ALLEY 19-(LRC)PSD-53960	ALLEY 4-(LRC)PSD-133236	ALLEY LOT 6-PSD-007404-033186-D
ALLEY 19-7-PCS-13-002056	ALLEY 40-12-PCS-007404-003764-D	ALLEY LOT 7-PSD-00-040429
ALLEY 19-PCS-00-010642	ALLEY 40-PCS-00-010642	ALLEY-2-(LRC)PCS-1011
ALLEY 19-PSD-36120	ALLEY 41C2N202-PSD-00-056232	ALLEY-2-(LRC)PSD-24746
ALLEY 1-PCS-00-006286	ALLEY 41C2N203-PSD-00-056232	ALLEY-2-(LRC)PSD-49459
ALLEY 1-PCS-00-009519	ALLEY 41C2N204-PSD-00-056232	ALLEY-6-(LRC)PCS-10318
ALLEY 1-PCS-00-010050	ALLEY 41C2N205-PSD-00-056232	ALLEY-7-(LRC)PCS-1011
ALLEY 1-PCS-00-010081	ALLEY 41C2N206-PSD-00-056232	ALLEY-PCS-007404-003985-D
ALLEY 1-PCS-00-010087	ALLEY 41C2N207-PSD-00-056232	ALLEY-PCS-3803
ALLEY 1-PCS-00-010642	ALLEY 41C2N208-PSD-00-056232	ALLEY-PSD-00-042351
ALLEY 1-PCS-007404-005686-D	ALLEY 41C2N209-PSD-00-056232	ALLEY-PSD-00-042358
ALLEY 1-PCS-007404-005820-D	ALLEY 41C2N210-PSD-00-056232	ALLEY-PSD-00-043699
ALLEY 1-PCS-007404-005821-D	ALLEY 41C2N211-PSD-00-056232	D ALLEY 15-PSD-00-047509
ALLEY 1-PCS-13-002084	ALLEY 41C2N212-PSD-00-056232	DRAINAGE ALLEY 19-7-PCS-13-002056
ALLEY 1-PCS-13-002085	ALLEY 41C2N213-PSD-00-056232	DRAINAGE ALLEY 28-PCS-13-002056

SPI		
ALLEY 1-PSD-00-033472	ALLEY 41C2N214-PSD-00-056232	DRAINAGE ALLEY 30-PSD-04-001728
ALLEY 1-PSD-00-040429	ALLEY 41C2N215-PSD-00-056232	DRAINAGE ALLEY 36-PCS-13-001193
ALLEY 1-PSD-00-043505	ALLEY 41C2N216-PSD-00-056232	DRAINAGE ALLEY 37-PCS-13-001193
ALLEY 1-PSD-00-050213	ALLEY 41C2N217-PSD-00-056232	DRAINAGE ALLEY 38-PSD-04-001728
ALLEY 1-PSD-00-052013	ALLEY 41C2N218-PSD-00-056232	WATER LINE ALLEY 2-PCS-13-000076

The table contains 432 records 29 or 6.7% have been captured with dashes, 38 or 8.7% with partial dashes and the rest have no dash after the word ALLEY.

Recommendations

The rules for SPI must be static and clear. The dash should be used to replace all spaces and full stops need to be removed and not allowed. Where a field does not have any entries it is not required and should not require the entry of a full stop. The system needs code to change the spaces in a lot number into dashes.

The rules should be:

1. Within a field all spaces are changed to dashes.
2. Between fields a dash is placed unless the field has no entry.

Examples:

Lot 1 Block A on PSD 21997, captured as

Lot	Block	Plan Prefix	Plan Number	Plan Suffix
1	A	PSD	21997	

This would not be 1-A-PSD-21997-, the last dash is not required as the Plan suffix field is empty the SPI would simply be 1-A-PSD-21997.

ALLEY 3 on PSD-007404-026437D, captured as

Lot	Block	Plan Prefix	Plan Number	Plan Suffix
ALLEY 3		PSD-007404	026437	D

This would not be ALLEY 3- -PSD-007404-026437-D, the dashes to separate the block field are not required and a dash is needed between the entry ALLEY and the 3. The SPI would be ALLEY-3-PSD-007404-026437-D.

The Land in PCN-00-000844, captured as

Lot	Block	Plan Prefix	Plan Number	Plan Suffix
		PCN-00	000844	

This would not be - -PCN-00-000847-, the dashes to separate the Lot and block fields, and the last dash, are not required as these fields are all empty. The SPI would be PCN-00-000847.

The need to store the land description in two tables, the Parcel and the TCT, needs to be analysed, there is no value added to the system by holding both.

4.5 Plan suffix

Some DENR plans have a plan suffix, on the 23rd March 2004, 3687 parcels in the database had a suffix. Of these 15 or 0.4% have not had the dash keyed before the plan suffix.

SPI	PrelimCIM
15C-PSD-007404-029803D	
15D-PSD-007404-029803D	
15F-PSD-007404-029803D	
15G-PSD-007404-029803D	
1-PCS-007404-004788D	14412104430206
20F-PSD-007404-024355D	1441210443074
20G-PSD-007404-024355D	1441210443070
20I-PSD-007404-024355D	1441210443082
20O-PSD-007404-024355D	
2-PCS-007404-004788D	14412104430205
33A1B-PSD-007404-033223D	14412104440287
3-PCS-007404-004788D	14412104430350
43-1-PCS-007404-005259D	144121041346
4-PCS-007404-004788D	14412104430351
5-PCS-007404-004788D	14412104430352

A further 9 have incorrect data in the field.

SPI	PrelimCIM	PlanSuffix
15-11-(LRC)PCS-17435	14412104430325	4
15-8-PSD-13-012525	14412106430123	2
18-16-PCS-00-006286	1441210613146	.
21-6-PSD-55779	14412104430213	4
26-6-(LRC)PCS-17435	14412104440105	105
38-17-PCS-00-006286	1441210613133	.
5-12-(LRC)PCS-17435	14412104430184	4
8-13-(LRC)PCS-17435	1441210443094	4
1-3-PSD-00-039636		144

These problems can be remedied by regular reports from the system.

5 PIO2 Documentation, Training and Data Consistency

5.1 Documentation

As with PIO1 there is sparse documentation of the PIO2 systems. The database lacks formal documentation on its design, although the systems analyst is working on documenting the system.

Like PIO1 the Management of PIO2 do not understand the system or how it is being used and the management of the system has fallen to the systems analyst. Changes to the system are rarely documented and there is no change management system that ensures that changes are approved and documented.

The main system is the data capture and validation system, this has undergone a lot of development and while it was originally documented by the TA, this documentation is no longer relevant.

Other systems have been developed, the Survey Plan Inventory System (SPIS), the Barangay Integrated Land Information System (BILIS), the Field Validation capture system and the OSS Tracking System.

No documentation has been provided for BILIS or SPIS yet, however there are assurances it is being developed. Interestingly BILIS does the same things that the Cross Index search does, the only difference is it is by Barangay. Cross Index search is fully documented and has a full training plan, yet it has been ignored and BILIS has been built independently.

The Field Validation Capture System was documented, however changes since its documentation have not been incorporated and the system used was not the documented one.

The OSS tracking system has been documented and the documentation lodged with the Prototype Manager.

5.2 Training

Most training at PIO2 is unstructured and there are very little formal training programs. The main data capture and validation system relies on the experienced data entry operators teaching the new trainees, rather than following a formal training program. This leads to inconsistencies as seen in the section below. SPIS and BILIS training has also been hands on with no formal training program. A formal training program and user manual were prepared for the Field Validation Capture System, but these were not used as the system was changed before being used and the documentation wasn't updated.

A formal training program has been written to introduce the structure of the Cross Index and to train staff in using the search functions. This is yet to be used.

A formal training program was developed for the OSS and while a short exercise was carried out with the staff, the training program has not been formally delivered to staff.

5.3 Data Consistency

While there are many inconsistencies in the data, many of these will disappear with proper Quality Assurance. However some of the inconsistencies are across the entire range of data and would not be evident in this type of checking. Most inconsistencies come about due to the lack of training, or poor quality training and a vague understanding of the capture requirements. This is evident in the database tables and is shown in the problems below. This is not an exhaustive list, but these are the types of problems that the management and users must be aware of and that must be fixed if the project is to deliver a quality product.

5.3.1 Parcels in the Wrong Barangay

	Parcels in cross index	TCT in cross Index	% of TCTs captured	Assessors records linked in cross Index	% of assessors linked
Holy Spirit					
Total on CIMs	6958	4792	69%	4038	59%
Recorded on wrong CIM	67	67		67	
Not on a CIM	1150	989		1661	
Multiple entires	12	279		578	
Total in Database	8,163	5,954		6344	
Batasan Hills					
Totals	8734	6128	70%	7167	75%
Recorded on wrong CIM	74	74		74	
Not on a CIM	1193	1108		720	
Multiple entires	-59	287		1250	
Total in Database	9,794	7,142		9211	9146
Commonwealth					
Total on CIMs	8758	5491	63%	3838	44%
Recorded on wrong CIM	10	6		10	
Not on a CIM	2086	1917		862	768
Multiple entires	304	249		2597	
Total in Database	11158	7387		7271	7177
Bagong Silangan					
Total on CIMs	7808	4687	60%	5105	65%
Recorded on wrong CIM	26	7		26	
Not on a CIM	719	706		1423	1340
Multiple entires	347	206		596	
Total in Database	8180	5599		7150	7067

Recorded in the wrong Barangay are 167 Parcels and 154 TCTs.

Holy Spirit

In Holy Spirit there are 6344 Assessor's records attached to the parcels. In the Assessor's data only 5346 of these have a CIM/UPI, therefore 998 are not attached to any TCT records. A further 663 are attached to a parcel but it has no CIM/UPI number making up 1661 records that are not attached to the CIM. There are 4105 individual PSPINs that are attached to records leaving 578 assessors records duplicated. It has been assumed that all 67 Parcels in the wrong Barangay are not duplicated. The total attached to CIMs has been reduced by the 67 which are attached to the wrong CIM to 4038.

Batasan Hills

In Batasan Hills there are 9211 Assessor's records attached to the parcels. In the Assessor's data only 9146 of these have a CIM/UPI, therefore 65 are not attached to any TCT records. A further 655 are attached to a parcel but it has no CIM/UPI number making up 720 records that are not attached to the CIM. There are 7241 individual PSPINs that are attached to records leaving 1250 assessors records duplicated. It has been assumed that all 74 Parcels in the wrong Barangay are not duplicated. The total attached to CIMs has been reduced by the 74 which are attached to the wrong CIM to 7167.

Commonwealth

In Commonwealth there are 7271 Assessor's records attached to the parcels. In the Assessor's data only 7177 of these have a CIM/UPI, therefore 94 are not attached to any TCT records. A further 768 are attached to a parcel but it has no CIM/UPI number making up 862 records that are not attached to the CIM. There are 3848 individual PSPINs that are attached to records leaving 2597 assessors records duplicated. It has been assumed that all 10 Parcels in the wrong Barangay are not duplicated. The total attached to CIMs has been reduced by the 10 which are attached to the wrong CIM to 3838.

Bagong Silangan

In Bagong Silangan there are 7150 Assessor's records attached to the parcels. In the Assessor's data only 7067 of these have a CIM/UPI, therefore 83 are not attached to any TCT records. A further 1340 are attached to a parcel but it has no CIM/UPI number making up 1423 records that are not attached to the CIM. There are 5131 individual PSPINs that are attached to records leaving 596 assessors records duplicated. It has been assumed that all 26 Parcels in the wrong Barangay are not duplicated. The total attached to CIMs has been reduced by the 26 which are attached to the wrong CIM to 5105.

5.3.2 Linking Records from the Assessor's database

There are two types of errors that have been detected that have been made by the data entry operators.

1. Where the lot has been subdivided or consolidated, they have changed the SPI to match the SPI of the new parcel instead of creating a new record.
2. Where the TCT numbers match, however the TCT number in the Assessor's record is the old TCT number from the title which was burnt in the fire.

TCTNO	LOT	Block	Plan No		SPI	Assessors TCT No	Assessors Lot	Assessors Block/Plan	Assessors SPI
101180	7	1	(LRC)PSD	114565	7-1-(LRC)PSD-114565	171949	7	1 (LRC)PSD-114565	7-1-(LRC)PSD-114565
101180	7	1	(LRC)PSD	114565	7-1-(LRC)PSD-114565	171949	6-A	PSD-313159	7-1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 8	LRC-PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 9	LRC-PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 6	LRC-PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 7	LRC-PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 4	LRC-PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 3	LRC-PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 1	PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 1	LRC-PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 2	LRC-PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 2	LRC-PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 1	PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 6	PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 6	PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	11	378 PSD-30328	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 1	PSD-114565	RD LOT 1-(LRC)PSD-114565
101180	RD LOT 1		(LRC)PSD	114565	RD LOT 1-(LRC)PSD-114565	172003	RD LOT 6	PSD-114565	RD LOT 1-(LRC)PSD-114565

The first record is correctly linked but the second record has been connected because the Assessors TCT number matched the TCT number of that the Assessors had for the current TCT. Investigation will probably show that the second Assessor's record is the cancelled parent TCT for the subdivision.

The matching of the Road lots could be that they correspond to the single road lot shown on the CIM, but the 3rd last entry is clearly a mistake and only matched because of the Assessor's TCT number.

Below is a sample of these types of entries found in the database.

SPI	Lot	Block	SURVEY NO
12-(LRC)PSD-69685	5	2	PCS-13-000073
48A-(LRC)PSD-34834	49-A		LRC PSD-34834
8-8-PSD-55779	18	9	LRC-PCS-9697
113B4A7-(LRC)PSD-101568	735-NN-1-A		LRC PSD-188407

A good example of the comparison is shown below for land parcel 113B4A7-(LRC)PSD-101568, it has 4 TCT records and 5 Assessor's records.

The latest records from the ROD and the Assessor's are fairly close

The screenshot displays the 'Standard Parcel Identifier Search' interface. At the top, it identifies the 'LAND ADMINISTRATION AND MANAGEMENT PROJECT' and 'Project Implementation Office 2 - Quezon City'. The search results for SPI 113B4A7-(LRC)PSD-101568 are shown in two main sections: 'TCT Records' and 'Assessor's Records'. The 'TCT Records' section lists five owners: RAMON F. ABARQUEZ JR., JULIO F. ABARQUEZ, ALICE ABARQUEZ AVACENA, BAUTISTA, and FE ABARQUEZ. The 'Assessor's Records' section shows registration details including PSPIN (21-008-02-036- - -), Tax Dec # (D-008-09485), and ACTDATE (10/2/1998). The interface also features a 'ONE-STOP-SHOP' logo on the left and various navigation and status controls at the bottom.

The actual match being between the previous TCT record and the latest Assessor's record. The only difference is that instead of 6 owners originally the current TCT has 5 owner.

LAND ADMINISTRATION AND MANAGEMENT PROJECT
Project Implementation Office 2 – Quezon City
Standard Parcel Identifier Search

SPI 113B4A7-(LRC)PSD-101568

CIMUPINo: 14432107130128 Lot 113B4A7 113-B-4-A-7 LOT
 Block BLOCK

Plan Number (LRC)PSD 101568 PSD-101568 Plan No.
 Area in sq. m 4000 4000 AREA

Assessor's Records

TCT No.	N	234491	194228	TCTNO
Reg. Date	2/22/2002	8/11/1998	Registration Date	

TCT Records

Owner's	Reg. Date	Registration Date	Owner's Name
RAMON F.	ABARQUEZ JR.	ABARQUEZ RAMON JR F M/TO AGNES S ET AL	
JULIO F.	ABARQUEZ		
ALICE ABARQUEZ AVACENA	BAUTISTA		
IFE	ABARQUEZ		

U-309 AMBERLAND PLAZA J VARGAS PASIG CTY Owner's Address

Record: 1 of 5

New TCT No. NEW TCT

PSPIN: 21-008-02-036--
 Tax Dec #: D-008-09485 ACTDATE: 10/2/1998
 Previous Tax Dec #: D-008-09089

NEWSURVEY
 REMARKS

Record: 1 of 4

Record: 3 of 5

Retired BRGYCODE 21-008 Bagong Silangan

The other TCT records are created because the ownership has changed 4 times since 1974, this being the reconstituted TCT.

However there is only 1 of the 5 Assessor's records that are correct.

The first one is a total mystery there are no components that match with any details on any of the four TCT records held in the database.

How it was given the same SPI is not clear but it is obviously incorrect.

LAND ADMINISTRATION AND MANAGEMENT PROJECT
Project Implementation Office 2 – Quezon City
Standard Parcel Identifier Search

SPI 113B4A7-(LRC)PSD-101568

CIMUPI No: 14432107130128 Lot 113B4A7 8-B-9 LOT
 Block Block

Plan Number (LRC)PSD 101568 PSD-00-042708 Plan No.
 Area in sq. m 4000 111 AREA

Assessor's Records
 TCT No. N 234491 199093 TCTNO
 Reg. Date 2/22/2002 1/8/1999 Registration Date

TCT Records

Owner's
 RAMON F. ABARQUEZ JR. QUIMBO SAMSON TIU M/TO ELLEN ANG QUIMBO Owner's Name
 JULIO F. ABARQUEZ
 ALICE ABARQUEZ AVACENA BAUTISTA 14 KABIGNAYAN ST BANAWE QC Owner's Address
 FE ABARQUEZ

Record: 1 of 5

New TCT No. NEW TCT
 PSPIN: 14-027-02-111- - -
 Tax Dec #: D-027-02314 ACTDATE: 4/17/1999
 Previous Tax Dec # D-027-02287

scantct: Serial# 6534078
 Page 91 Book T-1173 Live

NEWSURVEY
 REMARKS

Record: 4 of 4

Retired BRGYCODE 21-008 Bagong Silangan

The next two have the same TCT number as an earlier TCT over the land, however the TCT number was prefixed with N. The operator has taken the closest match, in this case the numeric component of the TCT number and matched the records based on this.

LAND ADMINISTRATION AND MANAGEMENT PROJECT
Project Implementation Office 2 – Quezon City
Standard Parcel Identifier Search

SPI 113B4A7-(LRC)PSD-101568

CIMUPI No: 14432107130128 Lot 113B4A7 735-NN-1 LOT
 Block Block

Plan Number (LRC)PSD 101568 LRC PSD-188407 Plan No.
 Area in sq. m 4000 250 AREA

Assessor's Records
 TCT No. N 194228 194228 TCTNO
 Reg. Date 8/11/1998 10/4/1973 Registration Date

TCT Records

Owner's
 RAMON F. ABARQUEZ JR. ABITONG NEMESIO Owner's Name
 ALICE ABARQUEZ AVACENA
 FRANCISCO G. AVACENA SAN BARTOLOME Q C Owner's Address
 FE A. SUACO

Record: 1 of 6


New TCT No. N 234491 NEW TCT
 PSPIN: 19-043-16-016- - -
 Tax Dec #: D-043-00940 ACTDATE: 1/11/1998
 Previous Tax Dec # B-043-00851

scantct: Serial# 5311212
 Page 28 Book 972 Live

NEWSURVEY
 REMARKS

Record: 3 of 4

Retired BRGYCODE 21-008 Bagong Silangan



LAND ADMINISTRATION AND MANAGEMENT PROJECT
 Project Implementation Office 2 – Quezon City
Standard Parcel Identifier Search

SPI 113B4A7-(LRC)PSD-101568

CIM/UPI No:	14432107130128	Lot	113B4A7	735-NN-1	LOT
		Block			BLOCK
Plan Number	(LRC)PSD 101568		LRC PSD-188407		Plan No.
		Area in sq. m	4000	250	AREA
		TCT No.	N 194228	194228	TCTNO
		Reg. Date	8/11/1998	10/4/1973	Registration Date

TCT Records

Owner/s	Reg. Date	Registration Date
▶ RAMON F.	ABARQUEZ JR.	ABITONG NEMESIO
ALICE ABARQUEZ	AVANCENA	
FRANCISCO G.	AVANCENA	
IFE A.	SUACO	

Record: 1 of 6

New TCT No. N 234491

Record: 1 of 1

scantct: Serial# 5311212

Page 28 Book 972 Live

Record: 3 of 4

Assessor's Records

NEW TCT

PSPIN: 19-043-16-016- - -

Tax Dec #: D-043-00940 ACTDATE: 1/11/1998

Previous Tax Dec #: B-043-00851

NEWSURVEY


REMARKS

Record: 4 of 5

Retired BRGYCODE 21-008 Bagong Silangan

Interestingly both these records have the same TCT number, in the Assessor's records as the correctly matched record. The owner has paid the land tax on two occasions and that explains why there are two records for the same land. The first paid on the 11th January 1998 the second on the 11th January 1999.

The last Assessor's record has the same owner as the TCT that was reconstituted. It may be the TCT that was reconstituted and the land description in the Assessor's record could be incorrect. The registration dates match, however this should be investigated against the plan if no lot 113B4S7 exists and it should be 113B4A7, then the remarks field should have been updated with this detail.



LAND ADMINISTRATION AND MANAGEMENT PROJECT
 Project Implementation Office 2 – Quezon City
Standard Parcel Identifier Search

SPI: 113B4A7-(LRC)PSD-101568

CIMUPI No:	14432107130128	Lot	113B4A7	113-B-4-S-7	LOT
		Block			BLOCK

Assessor's Records

Plan Number	(LRC)PSD	101568	PSD-101568	Plan No.
Area in sq. m		4000	4000	AREA

TCT Records

TCT No.	RT	14172	199093	TCTNO
Reg. Date		6/20/1974	6/20/1974	Registration Date

Owner's

Owner's Name	ALICIA F. ABARQUES	ABARQUES ALICIA F
Owner's Address		1244 SISON PACO MLA

Record: 1 of 1

New TCT

New TCT No.	N	169218
PSPIN:	21-008-02-036 - -	
Tax Dec #:	C-008-05229	ACTDATE: 12/8/1997
Previous Tax Dec #	B-023-01951	

NEWSURVEY

REMARKS

Record: 5 of 5

Retired BRGYCODE 21-008 Bagong Silangan

5.3.3 Creation of the CIM/UPI

There are problems also with the creation of the CIM/UPI, as shown in the table below.

The entry of the CIM number into the cross index has caused the creation of additional CIM numbers that result in the database holding more CIMs than have been created.

	From Cross Index	Actual Production
Holy Spirit	65	63
1:10,000	24	23
1:5,000	41	40
Batasan Hills	48	49
1:10,000	35	36
1:5,000	13	13
Bagong	57	32
Silangan*	37	25
1:10,000	20	7
1:5,000	73	45
Commonwealth*	40	28
1:10,000	33	17
1:5,000		49
Payatas		34
		15

These problems do not always get picked up in the Quality Assurance, but they could easily be found from reports generated by the system, as shown in Appendix 1. Also there is the problem of Payatas , where the prototype worked with DENR to locate the boundary but have yet to translate that into the cross Index. It should be noted that this is being addressed now, but it should have been addressed when the gender fields were updated in the database. During this process each record was called up and the gender added. By not carrying out this exercise at the same time the records are now being accessed a second time, which requires additional resources and time allocated.

5.3.4 List of plan numbers that do not have a CIM/UPI attached to a parcel created by them.

There are 1340 plans held in the database that contain a parcel which does not have a CIM/UPI number. Some of these are because there are probably keying errors in the record, others could be that the plan has not been retrieved and added to the CIM. However all of these need to be investigated and updated.

	PlanPrefix	PlanNo	CountOfSPI
▶	0	0	1
	PSD-13	0	1
	PSD-13	000002	1
	PCS-13	000007	1
	PSD-13	000007	1
	BCN-13	000009	1
	PCS-13	000034	1
	PCS-04	000049	1
	BCS-04	000061	1
	PCS-13	00007	1
	PSD-13	00007	1
	PCS-04	000073	1
	PCS-04	000076	2
	PCS-13	000076	2
	PSD-13	000076	2
	PCS-04	000093	1
	PCS-13	000094	1
	PCS-13	000096	24
	PSD-13	000099	4
	PSD-13	000100	3
	PCS-14	000126	1
	PSD-13	000129	2
	(LRC)PCS-13	000132	1
	PCS	000132	1
	PCS-13	000132	26
	PSD-13	000132	2
	PCS-00	000133	1
	PCS-04	000133	53
	PCS-13	000133	3
	PCS-14	000133	1
	PSD-04	000133	1
	PCS-04	000135	3
	PCS-04	000155	1

Record: 1 of 1340

When we re-look at the data with the retired field added we see that the retired function has been used incorrectly to remove many records that were incorrect from the reports.

PlanPrefix	PlanNo	Retired	CountOfSPI
	0	<input type="checkbox"/>	1
PSD-13	0	<input type="checkbox"/>	1
PSD-13	000002	<input type="checkbox"/>	1
PCS-13	000007	<input checked="" type="checkbox"/>	1
PSD-13	000007	<input type="checkbox"/>	1
BCN-13	000009	<input checked="" type="checkbox"/>	1
PCS-13	000034	<input type="checkbox"/>	1
PCS-04	000049	<input checked="" type="checkbox"/>	1
BCS-04	000061	<input type="checkbox"/>	1
PCS-13	00007	<input type="checkbox"/>	1
PSD-13	00007	<input type="checkbox"/>	1
PCS-04	000073	<input type="checkbox"/>	1
PCS-04	000076	<input type="checkbox"/>	2
PCS-13	000076	<input type="checkbox"/>	2
PSD-13	000076	<input type="checkbox"/>	2
PCS-04	000093	<input type="checkbox"/>	1
PCS-13	000094	<input type="checkbox"/>	1
PCS-13	000096	<input type="checkbox"/>	24
PSD-13	000099	<input type="checkbox"/>	4
PSD-13	000100	<input checked="" type="checkbox"/>	3
PCS-14	000126	<input type="checkbox"/>	1
PSD-13	000129	<input type="checkbox"/>	2
(LRC)PCS-13	000132	<input type="checkbox"/>	1
PCS	000132	<input type="checkbox"/>	1
PCS-13	000132	<input type="checkbox"/>	26
PSD-13	000132	<input type="checkbox"/>	2
PCS-00	000133	<input type="checkbox"/>	1
PCS-04	000133	<input type="checkbox"/>	53
PCS-13	000133	<input type="checkbox"/>	3
PCS-14	000133	<input type="checkbox"/>	1
PSD-04	000133	<input type="checkbox"/>	1
PCS-04	000135	<input type="checkbox"/>	3
PCS-04	000155	<input type="checkbox"/>	1

cord: 1 of 1393

However these should have been deleted not retired, a parcel is only retired once it was shown on a CIM and had been mutated.

When we remove these retired parcels from the report we find that we now have 90 plans that contain at least one parcel which is not allocated a CIM/UIPI number, as shown below.

PlanPrefix	PlanNo	Retired	CountOfSPI
PSD-13	005821	<input checked="" type="checkbox"/>	225
(LRC)PCS	11864	<input checked="" type="checkbox"/>	119
PCS	3088	<input checked="" type="checkbox"/>	67
PCS-00	007380	<input checked="" type="checkbox"/>	25
PSD-13	013606	<input checked="" type="checkbox"/>	24
PSD	34147	<input checked="" type="checkbox"/>	15
BSD-04	000507	<input checked="" type="checkbox"/>	13
PCS-13	000412	<input checked="" type="checkbox"/>	7
(LRC)PSD	133236	<input checked="" type="checkbox"/>	7
PCS	3803	<input checked="" type="checkbox"/>	6
PCS-00	007504	<input checked="" type="checkbox"/>	6
PCS-13	000355	<input checked="" type="checkbox"/>	6
PSD-007404	023961	<input checked="" type="checkbox"/>	6
PSD	36120	<input checked="" type="checkbox"/>	5
PSD-13	000409	<input checked="" type="checkbox"/>	4
PSD-00	034525	<input checked="" type="checkbox"/>	4
(LRC)PCS	17435	<input checked="" type="checkbox"/>	4
PCS-00	006315	<input checked="" type="checkbox"/>	4
PCS-007404	005686	<input checked="" type="checkbox"/>	3
(LRC)PCS	1011	<input checked="" type="checkbox"/>	3
PCS-00	006728	<input checked="" type="checkbox"/>	3
PSD-13	000100	<input checked="" type="checkbox"/>	3
PCS-007404	003764	<input checked="" type="checkbox"/>	3
PSD	21997	<input checked="" type="checkbox"/>	3
PSD	36810	<input checked="" type="checkbox"/>	3
PSD	55779	<input checked="" type="checkbox"/>	3
PCS-00	007155	<input checked="" type="checkbox"/>	2
(LRC)PSD	5235	<input checked="" type="checkbox"/>	2
(LRC)PSD	347188	<input checked="" type="checkbox"/>	2
(LRC)PCS	12692	<input checked="" type="checkbox"/>	2
(LRC)PCS	16317	<input checked="" type="checkbox"/>	2
(LRC)PSD	2625	<input checked="" type="checkbox"/>	2
PCS-007404	005259	<input checked="" type="checkbox"/>	2

Record: 26 of 90

26 of the records contain 3 lots or more suggesting that the plan may not exist on the CIM (although PSD21997 is a large plan, so the three lots were probably just missed).

5.3.5 Duplicated TCT records

The Database contains 186 duplicated TCT records that need to be investigated and cleaned up. Some are just a straight copy, but others contain slight keying differences that need to be investigated and the incorrect record removed.

There are also 100 TCT records that have multiple land descriptions, some on different plans and these need to be checked and validated. The duplicates and multiple TCT records are shown in Appendix 2.

5.3.6 Titles that are not attached to a CIM

There are 4723 TCTs not attached to a CIM, see report in Appendix 3. These need to be investigated and either have the Barangay code removed, if they are not within the prototype area or have the plans located and the CIMs updated.

The situation has been reported but as shown below nothing has been done about it.

March 2004

No of TCTs	Barangay
3	No Barangay Code
706	21-008 – Bagong Silangan
1917	21-023 - Commonwealth
1108	21-138 - Holy Spirit
989	21-139 – Batasan Hills

June 2004

No of TCTs	Barangay
3	No Barangay Code
717	21-008 – Bagong Silangan
1942	21-023 - Commonwealth
1126	21-138 - Holy Spirit
1005	21-139 – Batasan Hills

6 Structure Limitations

6.1 PIO1

The PIO1 database lacks a suitable linkage. The three trialled to date are still insufficient. Not all of the agencies are contained in the database or have had their data requirements fully analysed. As a result it is constantly changing making some fields redundant, but they cannot be removed as data was captured in them. There is no correlation between the database used in the field and the database at PIO1, therefore the field data is rekeyed back at PIO1 to fit within the structure there. Many tables are duplicated and could be consolidated, especially owner name tables. The structure is unsuitable for a national system.

6.2 PIO2

The PIO2 database has structural limitations that would not make it suitable for a database integrating data from different sources and RODs.

1. The internal structure of the Title to the owner and new Titles created from it uses an autonumber as the link. This will cause problems when trying to link records from other registries or other computer systems not linked by a network.
2. The TCT numbers are unique for the registry that they are captured in, however if the data from different registries is placed together there will be problems as the TCT numbering is duplicated. For example if the data of three registries are placed together and TCT 2345 is search three TCTs will be returned.
3. The Parcel table data is captured from the TCT not the plan, therefore areas are never compared and discrepancies not found. Also the SPI generation is flawed and has too many local rules that make it difficult to implement across other systems.

Recommendations

There are sections of both systems that could be adapted to a national structure. Until the two teams work together, working for a common goal, these disjointed systems will continue to capture data and make the task of moving the data into one common system all the more difficult.

7 Overall Recommendations

1. The Information Technology (IT) TAs proposed for the extension phase be mobilised and being working with the prototypes and PMO to develop a system that can be used for the Phase 2. Including agreement on what will be the structure and composition of the cross index.
2. A systems analysis is carried out with partner agencies. LAMP should be able to supply a data capture format that meets their needs and that can be linked back to the LAMP Cross Index, and/or any GIS developed.
3. The Project Management Office must set up an IT unit to manage the IT systems for LAMP, especially those to be used in phase 2. All IT requests will go through the PMO unit and the project sites will have an IT person on site for trouble shooting, network control, linking to agency systems, database editing, report generation and any other requirements of the project sites. The LAMP system should be created and maintained at PMO, be fully documented and subject to version control. As project sites are created the IT unit will be responsible for rolling out the systems to the sites and assisting in the training. This will ensure consistency, portability and will avoid duplication of effort.

8 Appendix 1 Number of Parcels per CIM

This report displays a count of the parcels recorded in the Cross Index for each CIM.

CIM Number	Total Parcels	CIM Number	Total Parcels
	5057	14402104410	7
11412104430	1	14402105110	327
11412106340	1	14402105112	98
14021042202	1	14402105113	98
14121063402	1	14402105114	145
14401052101	5	14402105120	471
14402104110	67	14402105140	1
14402104112	3	14402105210	265
14402104113	74	14402105220	223
14402104114	44	14402105230	120
14402104120	337	14402105240	290
14402104121	8	14402105420	233
14402104122	41	14402105544	1
14402104123	1	14402106030	16
14402104130	33	14402106110	500
14402104131	61	14402106115	1
14402104132	3	14402106120	349
14402104140	51	14402106130	422
14402104141	6	14402106140	45
14402104142	25	14402106210	2
14402104210	277	14402106310	49
14402104211	53	14402106320	1
14402104213	6	14402106440	2
14402104220	250	14410214120	1
14402104223	5	14412044242	1
14402104230	147	14412103405	1
14402104231	10	14412104110	1
14402104232	9	14412104120	214
14402104234	47	14412104121	48
14402104240	45	14412104123	40
14402104241	8	14412104130	11

CIM Number	Total Parcels	CIM Number	Total Parcels
14412104134	171	14412104433	47
14412104140	223	14412104434	23
14412104143	11	14412104440	288
14412104210	84	14412104442	222
14412104211	253	14412105030	1
14412104212	372	14412105110	38
14412104214	158	14412105111	242
14412104220	73	14412105130	34
14412104221	105	14412105131	13
14412104222	128	14412105133	286
14412104223	497	14412105140	1
14412104224	235	14412105210	29
14412104230	187	14412105220	144
14412104240	107	14412105223	23
14412104241	48	14412105230	10
14412104242	8	14412105240	51
14412104243	227	14412105241	235
14412104244	134	14412105242	244
14412104310	176	14412105243	57
14412104314	15	14412105244	195
14412104320	333	14412105310	40
14412104324	4	14412105311	137
14412104330	239	14412105313	283
14412104340	408	14412105320	4
14412104341	5	14412105330	238
14412104342	58	14412105331	22
14412104344	28	14412105340	120
14412104410	323	14412105410	83
14412104413	7	14412105420	190
14412104420	233	14412105430	432
14412104422	251	14412105440	156
14412104424	344	14412106110	363
14412104430	314	14412106120	167
14412104431	36	14412106130	315

CIM Number	Total Parcels	CIM Number	Total Parcels
14412106131	101	14422104430	361
14412106133	85	14422104431	1
14412106140	345	14422104432	1
14412106142	72	14422104433	139
14412106210	1	14422104434	14
14412106211	212	14422104440	146
14412106212	6	14422104441	116
14412106213	157	14422104442	230
14412106230	147	14422104443	29
14412106231	288	14422104444	485
14412106310	486	14422104445	1
14412106320	461	14422105110	12
14412106330	255	14422105113	2
14412106340	629	14422105114	25
14412106347	1	14422105120	24
14412106410	326	14422105130	253
14412106430	273	14422105131	252
14412106446	1	14422105132	71
1441214410	1	14422105133	31
14412153131	1	14422105134	55
14412163102	1	14422105140	241
14412163401	1	14422105210	279
14412163402	1	14422105211	9
14412163405	1	14422105212	84
14421063104	1	14422105213	2
14421063405	1	14422105220	31
14421063407	1	14422105221	8
14422104240	127	14422105230	280
14422104320	5	14422105240	447
14422104340	319	14422105310	157
14422104410	104	14422105320	38
14422104420	138	14422105321	44
14422104421	2	14422105330	92
14422104422	6	14422105333	288

CIM Number	Total Parcels	CIM Number	Total Parcels
14422105340	32	14432106240	532
14422105410	140	14432106241	17
14422105420	188	14432106242	17
14422105430	51	14432106243	48
14422105440	285	14432106244	46
14422106110	41	14432106310	205
14422106120	306	14432106320	151
14422106130	60	14432106330	283
14422106140	313	14432106340	155
14422106210	229	14432106342	7
14422106220	75	14432106410	62
14422106230	617	14432106420	181
14422106232	1	14432106422	23
14422106240	152	14432106424	22
14422106310	297	14432106430	179
14422106311	1	14432106440	5
14422106320	298	14432107110	17
14422106330	406	14432107130	139
14422106340	307	14432107131	52
14422106410	382	14432107133	15
14422106420	152	14432107310	71
14422106430	278	14432107311	27
14422106433	64	14432107330	6
14422106440	34	14441210634	1
14422107110	90	87	1
14422107130	162		
14422107310	6		
14422144201	1		
14432105420	59		
14432105440	46		
14432106220	1		
14432106230	13		
14432106232	6		
14432106234	7		

9 Appendix 2

9.1 Duplicated TCT records

TCTNo	ID	Date of Reg	Lot	Block	Plan Number			Area	Book	Page	Live	Serial No	SPI	
	102522	1180	2/2/1994	15G		PSD-007404	029803	D	63.5	T-513	122	Yes	2980988	15G-PSD-007404-029803D
	102522	7248	2/2/1994	15G		PSD-007404	029803	D	63.5	T-513	122	Yes	2980988	15G-PSD-007404-029803-D
	103499	23183	2/21/1994	18	14	PCS-007404	003985	D	150	T-518	99	Yes	3020432	18-14-PCS-007404-003985-D
	103499	23161	2/21/1994	18	14	PSD-007404	003985	D	150	T-518	99	Yes	3020432	18-14-PCS-007404-003985-D
	104082	25126	3/2/1994	35	19	PSD-13	003168		160	T-521	82	Yes	3020996	35-19-PSD-13-003168
	104082	25125	3/2/1994	35	19	PSD-13	003169		160	T-521	82	Yes	3020996	35-19-PSD-13-003168
	104579	23558	10/28/1993	10	13	PSD-007404	004431	D	212	T-524	179	Yes	3043775	10-13-PCS-007404-004431-D
	104579	23562	10/28/1993	10	13	PCS-007404	004431	D	212	T-524	179	Yes	3043775	10-13-PCS-007404-004431-D
	104581	23564	10/28/1993	12	7	PCS-007404	004431	D	150	T-524	181	Yes	3043777	12-7-PCS-007404-004431-D
	104581	23559	10/28/1993	12	7	PSD-007404	004431	D	150	T-524	181	Yes	3043777	12-7-PCS-007404-004431-D
	104583	23560	10/28/1993	16	6	PSD-007404	004431	D	195	T-524	183	Yes	3043779	16-6-PCS-007404-004431-D
	104583	23565	10/28/1993	16	6	PCS-007404	004431	D	195	T-524	183	Yes	3043779	16-6-PCS-007404-004431-D
RT	104896	24821	1/10/1977	13A		(LRC)PSD	228405		300	525	96	Yes	162126	13A-(LRC)PSD-228405
RT	104896	24823	1/10/1977	13A		(LRC)PSD	228405		300	525	96	Yes	162126	13A-(LRC)PSD-228405
RT	105359	12141	4/6/1987	2	21	PCS-13	000571		183	527	159	Yes	162390	2-21-PCS-13-000571
RT	105359	34310	1/25/1988	6	3	PCS-13	000571			527	159	Yes	162389	6-3-PCS-13-000571
	105374	14588	3/24/1994	1	21	PCS-13	000355		189	T-527	174	Yes		1-21-PCS-13-000355
	105374	14076	3/24/1994	1	21	PCS-13	000355		189	T-527	174	No	3061301	1-21-PCS-13-000355
	106892	14288	4/20/1994	30A		PSD-007404	028182	D	94.5	T-535	92	Yes	3088528	30A-PSD-007404-028182-D
	106892	14117	4/20/1994	30A		PCS-007404	028182	D	94.5	T-535	92	Yes	3088528	30A-PCS-007404-028182-D
	110813	26430	6/7/1994	20	10	PSD-007404	023961	D	7014	T-555	13	Yes	3136751	20-10-PSD-007404-023961-D
	110813	26473	6/7/1994	20		PSD-007404	023961	D	7014	T-555	13	No	3136751	20-PSD-007404-023961-D
	112020	35006	6/24/1994	2B		PSD-007404	027360	D	60	T-561	20	No	3166738	2B-PSD-007404-027360-D

TCTNo	ID	Date of Reg	Lot	Block	Plan Number			Area	Book	Page	Live	Serial No	SPI	
	112020	14609	6/24/1994	2B		PSD-004704	027360	D	60	T-561	20	No		2B-PSD-004704-027360-D
RT	115181	33802	8/1/1980	35B5A		PSD-04	000435		7885	579	181	Yes	186921	35B5A-PSD-04-000435
RT	115181	14216	6/2/1986	20	9	PCS-13	000355		128	576	181	Yes	160579	20-9-PCS-13-000355
	117309	19976	8/8/1994	2		PCS-007404	005827	D	405.38	587	109	No	3291513	2-PCS-007404-005827-D
	117309	9158	9/8/1994	2		PCS-007404	003972	D	220	587	109	No	3291513	2-PCS-007404-003972-D
	117310	19979	9/8/1994	1		PCS-007404	005827	D	415.34	587	110	No	3291512	1-PCS-007404-005827-D
	117310	9160	9/8/1994	1		PCS-007404	003972	D	218	587	110	No	3291512	1-PCS-007404-003972-D
RT	118438	20601	5/22/1984	22	25	PSD-04	000335		154	T-593	38	No	193331	22-25-PSD-04-000335
RT	118438	20602	5/22/1984	22	25	PSD-13	000335		154	T-593	38	No	193331	22-25-PSD-13-000335
	118986	6661	10/3/1994	.		PCN-007404	000505	D	2599	T-595	186	No	3356380	.-PCN-007404-000505-D
	118986	31987	10/3/1994	.	.	PCN-007404	000505	D	2599	T 595	186	No	3356380	.-PCN-007404-000505-D
RT	119245	4920	6/6/1988	72B		(LRC)PCS	342928		190	597	45	No	195371	72B-(LRC)PSD-342928
RT	119245	34223	6/6/1988	72B		(LRC)PCS	342928		190	597	45	No	195371	72B-(LRC)PCS-342928
	119438	11573	10/12/1994	17	4	PCS-007404	004826	D	319	T-598	38	Yes	3356815	17-4-PCS-007404-004826-D
	119438	7961	10/12/1994	17	4	PCS-007404	004826	D	319	T-598	38	Yes	3356815	17-4-PCS-007404-004826-D
RT	119878	34208	5/29/1987	13	7	(LRC)PSD	133236		384	600	78	Yes	198270	13-7-(LRC)PSD-133236
RT	119878	4869	5/29/1987	13	17	(LRC)PSD	133236		384	600	78	Yes	198270	13-17-(LRC)PSD-133236
	120602	5937	10/28/1994	2B		(LRA)PSD	352275		33.75	T-604	2	Yes	3392499	2B-(LRA)PSD-352275
	120602	883	10/28/1994	2B		(LRA)PSD	352275		33.75	T-604	2	Yes	3392499	2B-PSD-352275
	121219	31991	11/14/1994	.	.	PCN-007404	000505	D	2599	T 607	119	Yes	3415302	.-PCN-007404-000505-D
	121219	6663	11/14/1994	.	.	PCN-007404	000505	D	2599	T-607	119	Yes	3415302	.-PCN-007404-000505-D
	121408	34212	11/17/1994	33A1B		PSD-007404	033223	D	100.9	608	8	Yes	3415484	33A1B-PSD-007404-033223-D
	121408	1418	11/17/1994	33A1B		PSD-007404	033223 D	D	100.9	608	8	Yes	3415484	33A1B-PSD-007404-033223D
RT	121431	8440	4/27/1982	1		PCS	3803		5222	608	31	Yes	201764	RD 1-PCS-3803
RT	121431	6830	4/27/1982	RD LOT 1		PCS	3803		5222	608	31	Yes	201764	RD LOT 1-PCS-3803
RT	121670	8793	3/21/1979	21	1	(LRC)PCS	16317		610	609	70	Yes	202773	21-1-(LRC)PCS-16317
RT	121670	8823	3/21/1979	21	1	(LRC)PCS	16317		610	609	70	Yes	202773	21-1-(LRC)PCS-16317

TCTNo	ID	Date of Reg	Lot	Block	Plan Number			Area	Book	Page	Live	Serial No	SPI	
	123349	26565	1/3/1995	9	2	PSD-007404	033186	D	57	T-617	149	No	3493975	9-2-PSD-007404-033186-D
	123349	8005	12/5/1994	4	9	PCS-007404	003764	D	311	T-612	149	Yes	3416396	4-9-PCS-007404-003764-D
	124921	414	1/31/1995	20	5	PSD-13	14433		301.6	625	121	Yes	3540261	20-5-PSD-13-14433
	124921	6858	1/31/1995	20	5	PSD-13	014433		301.6	625	121	Yes	3540261	20-5-PSD-13-014433
	127251	4540	3/13/1995	8		PCS-00	006194		87.25	637	51	No	3594202	8-PCS-00-006194
	127251	31638	3/13/1995	8		PCS-00	006194		87.25	637	51	No	3594202	8-PCS-00-006194
T	127567	9720	10/2/1979	14	10	PCS	4998		1018			No		14-10-PCS-4998
T	127567	9698		14	10	BSD	4998		1018			Yes		14-10-BSD-4998
	128147	1194	2/28/1995	15F		PSD-007404	029803	D	74	T-651	147	Yes	3595066	15F-PSD-007404-029803D
	128147	6551	3/28/1995	15F		PSD-007404	029803	D	74	T-641	147	Yes	3595066	15F-PSD-007404-029803-D
	128148	6552	3/28/1995	15D		PSD-007404	029803	D	58.5	T-641	148	Yes	3595067	15D-PSD-007404-029803-D
	128148	1196	3/28/1995	15D		PSD-007404	029803	D	58.5	T-641	148	Yes	3595067	15D-PSD-007404-029803D
	128881	6604	4/5/1995	15C		PSD-007404	029803	D	58.5	645	81	Yes	3595782	15C-PSD-007404-029803-D
	128881	1243	4/5/1995	15C		PCS-007404	029803	D	58.5	645	81	Yes	3595782	15C-PSD-007404-029803D
	129446	1247	4/5/1995	7E		(LRA)PSD	354786		59	T-648	46	No	3639302	7E-PSD-354786
	129446	5787	4/5/1995	7E		(LRA)PSD	354786		59	T-648	46	No	3639302	7E-(LRA)PSD-354786
N	132710	27705	6/8/1995	12	1	PCS-00	006286		72			Yes		12-1-PCS-00-006286
N	132710	2183	6/8/1995	12	1	PCS	006286		72	T-664	10	Yes	3714017	12-1-PCS-00-006286
N	132748	27727	6/8/1995	1	3	PCS-00	006286		96	T-664	148	No	3714055	1-3-PCS-00-006286
N	132748	12794	6/8/1995	1	3	PCS-00	006286		96	T-664	148	No	3714055	1-3-PCS-00-006286
N	132750	27729	6/8/985	3	3	PCS-00	006286		96	T-664	150	No	3714057	3-3-PCS-00-006286
N	132750	12797	6/8/1995	3	3	PCS-00	006286		96	T-664	150	No	3714057	3-3-PCS-00-006286
N	133249	12883	6/8/1995	9	14	PCS-00	006286		72	T-667	49	No	3727356	9-14-PCS-00-006286
N	133249	12877	11/17/1995	2A1		PSD-00	037909		48	T-717	49	No	3939708	2A1-PSD-00-037909
N	133250	12878	11/17/1995	2A2		PSD-00	037909		52	T-717	50	No	3939709	2A2-PSD-00-037909
N	133250	30730	6/8/1995	10	14	PCS-00	006286		72	T-667	50	No	3727357	10-14-PCS-00-006286
N	133250	12873	6/8/1995	10	14	PCS-00	006268		72	T-667	50	No	3727357	10-14-PCS-00-006268

TCTNo	ID	Date of Reg	Lot	Block	Plan Number			Area	Book	Page	Live	Serial No	SPI	
N	133752	13558	8/26/1996	18	5	PSD-13	003877		105	T-817	162	Yes	4331384	18-5-PSD-13-003877
N	133752	13557	6/14/1995	18	5	PSD-13	003877		105	T-669	152	No	3727859	18-5-PSD-13-003877
N	134799	15814	6/29/1995	10	16	PSD-13	000409		112	T-674	199	Yes	3728890	10-16-PSD-13-000409
N	134799	15811	6/29/1995	10	16	PSD-13	000409		112	T-674	199	Yes	3728890	10-16-PSD-13-000409
N	136555	26734	7/31/1995	815C13		PSD-00	035841		1000	T-683	155	Yes	3791353	815C13-PSD-00-035841
N	136555	22051	7/31/1995	815C1A 3		PSD-00	035841		1000	T-683	155	Yes	3791353	815C1A3-PSD-00-035841
RT	13759	9716	5/28/1980	2	11	PCS-04	000133		240	69	159	Yes	029396	2-11-PCS-04-000133
RT	13759	34251	8/23/1984	17B		(LRC)PSD	315883		215.5	519	59	Yes	159107	17B-(LRC)PSD-315883
RT	14879	25982	6/23/1980	63A8		(LRC)PSD	290059		11128	T-75	179	No	037570	63A8-(LRC)PSD-290059
RT	14879	34559	12/18/1986	27	14	(LRC)PCS	16631		324	575	79	Yes	185151	27-14-(LRC)PCS-16631
RT	15026	5057	11/14/1978	1	21	PCS-04	000133		348	76	26	No	030020	1-21-PCS-04-000133
RT	15026	14807	4/26/1985	56	8	PCS-04	000820		255	80	26	No	035336	56-8-PCS-04-000820
N	152098	14949	3/13/1996	14	15	PCS-00	006728		120	T-761	98	No	4100220	14-15-PCS-00-006728
N	152098	27568	5/8/1996	5	14	PCS-00	006728		120	T-776	98	Yes	4187282	5-14-PCS-00-006728
N	152327	2632	3/19/1996	18	18	PCS-13	001542		150	T-762	127	Yes	4100446	18-18-PCS-13-001542
N	152327	27617	3/13/1996	13	21	PCS-00	006728		98	T-763	27	Yes	4100545	13-21-PCS-00-006728
N	155568	8407	5/16/1996	26	4	PSD-13	009025		150	T-778	168	No	4187741	26-4-PSD-13-009025
N	155568	8406	5/16/1996	26	4	PSD-13	009025		150			Yes	4187741 +	26-4-PSD-13-009025
N	155595	1165	5/16/1996	200		PSD-007404	024355	D	37	778	195	Yes	4187767	200-PSD-007404-024355D
N	155595	6368	5/15/1996	200		PSD-007404	024355	D	37	778	195	Yes	4187767	200-PSD-007404-024355-D
N	156418	10287	6/3/1996	1		PCS-00	007230		394	783	18	Yes	4216863	1-PCS-00-007230
N	156418	33105	6/3/1996	4		PCS-00	006243		465	783	18	Yes	4216863	4-PCS-00-006243
N	157572	34059	6/3/1996	29	14	PSD-00	039637		108	T-786	172	Yes	4237495	29-14-PSD-00-039637
N	157572	17215	6/3/1996	29	14	PSD-00	039637		108	T-786	172	No	4237495	29-14-PSD-00-039637
N	162771	6022	8/14/1996	3		PCS-00	006998		64	T-814	171	Yes	4330800	3-PCS-00-006998
N	162771	5840	8/14/1996	3		PSD-00	006998		64	T-814	171	Yes	4330800	3-PSD-00-006998
N	165258	6159	9/27/1996	34B2		PCS-13	006330		98	827	58	No	4374630	34B2-PCS-13-006330

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N	165258	8614	9/27/1996	34B2		PSD-13	006330		98	827	58	No	4374630	34B2-PSD-13-006330
N	166319	1760	10/15/1996	12	13	PCS-00	006286		72	T-832	119	Yes	4409272	12-13-PCS-00-006286
N	166319	19812	10/15/1996	12	13	PCS-00	006296		72	T-832	119	Yes	4409272	12-13-PCS-00-006296
N	169161	630	12/20/1996	34B2		PSD-13	006330		98	T-846	161	Yes	4506713	34B2-PSD-13-006330
N	169161	6160	12/20/1996	34B2		PCS-13	006330		98	T-846	161	Yes	4506713	34B2-PCS-13-006330
N	169203	33026	12/20/1996	14	13	PCS-007404	003764	D	375	847	9	Yes	4506761	14-13-PCS-007404-003764-D
N	169203	16496	12/24/1996	13	1	PCS-13	012940		177	T-845	3	Yes	4506755	13-1-PSD-13-012940
N	170204	2787	1/20/1997	25-K-3-A-5		PSD-007404	025819	D	34	852	4	Yes	4537396	25-K-3-A-5-PSD-007404-025819-D
N	170204	5718	1/20/1997	25K3A5		PSD-007404	025819	D	34	852	4	Yes	4537396	25K3A5-PSD-007404-025819-D
N	171997	17469	2/27/1997	33	9	(LRC)PCS	12376		516	860	197	No	4604251	33-9-(LRC)PCS-12376
N	171997	16655	2/25/1997	18	1	PCS-00	006728		225	T-860	197	Yes	4604252	18-1-PCS-00-006728
N	173765	5374	4/4/1997	6	7	(LRC)PCS	1011		600	T-869	165	Yes	4640380	6-7-(LRC)PCS-1011
N	173765	6410	4/4/1997	6	7	(LRC)PCS	1071		600	T-869	165	Yes	4640380	6-7-(LRC)PCS-1071
N	179881	20648	7/30/1997	18	8	PCS-007404	004431	D	195	T-900	81	Yes	4839329	18-8-PCS-007404-004431-D
N	179881	3419	5/21/1997	18	6	PCS-007404	003764	D	300	885	81	Yes	4738131	18-6-PCS-007404-003764-D
N	180369	16442	8/12/1997	2B		PSD-007404	027360	D	60	T-902	169	Yes	4839808	2B-PSD-007404-027360-D
N	180369	14611	8/12/1997	2B		PSD-004704	027360	D	60	T-902	169	Yes		2B-PSD-004704-027360-D
N	180882	32864	8/15/1997	1	10	PSD-13	005821		49	T 905	82	Yes	4861512	1-1-PSD-13-005821
N	180882	19296	8/15/1997	1	1	PCS-00	007952		306	T-905	82	No	4861512	1-1-PCS-00-007952
N	183075	12454	6/8/1995	8	9	PCS-00	006286		94	T-666	74	No	3714381	8-9-PCS-00-006286
N	183075	2569	10/9/1997	8	9	PCS-00	006286		94	T-916	75	No	4940733	8-9-PCS-00-006286
N	184080	18719	10/9/1997	17	3	PSD-00	009637		112	T-921	80	Yes	4969424	17-3-PSD-00-009637
N	184080	33988	10/9/1997	17	3	PSD-00	039637		112	T-921	80	Yes	4969424	17-3-PSD-00-039637
N	184184	17140	10/16/1997	14	1	PSD-00	039637		108	T-922	184	Yes	4969527	14-1-PSD-00-039637
N	184184	19709	11/10/1997	9	9	PSD-13	000409		94	T-923	184	Yes	5001270	9-9-PSD-13-000409
N	184748	19785	11/11/1997	4	2	PCS-00	007381		141	924	148	Yes	5001433	4-2-PCS-00-007381
N	184748	10092	11/11/1997	4	2	PCS-00	007381		141	924	148	Yes	5001433	4-2-PCS-00-007381

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N	185764	14786	12/11/1997	30	8	PCS-04	000820		348	929	164	Yes	5032038	30-8-PCS-04-000820
N	185764	14784	4/26/1985	30	8	PCS-04	000820		348	573	9	No	183943	30-8-PCS-04-000820
N	185786	16923	12/10/1997	1	3	PSD-00	039636		144			Yes		1-3-PSD-00-039636
N	185786	16924	12/10/1997	1	3	PSD-00	039636	1 4 4	144	929	186	Yes	5032060	1-3-PSD-00-039636
N	186507	32946	1/12/1998	41C2D D1B2		(LRC)PSD	175952		1140	933	107	Yes	5032765	41C2DD1B2-(LRC)PSD-175952
N	186507	32944	5/30/1994	41C2D D1B2		(LRC)PSD	175952		1140	T 553	79	No	3136428	41C2DD1B2-(LRC)PSD-175952
N	186960	17036	1/22/1998	4B		PSD-13	007124		60	935	160	Yes	5087247	4B-PSD-13-007124
N	186960	14823	1/22/998	4B		PSD-13	007142		60	935	160	Yes	5087247	4B-PSD-13-007142
N	189406	11658	3/13/1998	27	5	PCS-007404	004826	D	283	T-948	6	Yes	5158165	27-5-PCS-007404-004826-D
N	189406	11373	3/13/1998	27	5	PCS-007404	004826	D	283	T-948	6	Yes	5158165	27-5-PCS-007404-004826-D
N	190214	1176	3/24/1998	3A		PSD	359524		277	952	14	Yes	5177555	3A-PSD-359524
N	190214	7201	3/24/1998	3A		(LRA)PSD	359524		277	952	14	Yes	5177555	3A-(LRA)PSD-359524
N	190215	7202	3/24/1998	3B		(LRA)PSD	359524		277	952	15	Yes	5177556	3B-(LRA)PSD-359524
N	190215	1177	3/24/1998	3B		(LRA)PSD	359524		277	952	15	Yes	5177556	3B-PSD-359524
N	191105	23166	5/5/1998	22	13	PCS-007404	003985	D	150	T-956	105	Yes		22-13-PCS-007404-003985-D
N	191105	23141	5/5/1998	22	13	PSD-007404	003985	D	150	T-956	105	Yes		22-13-PCS-007404-003985-D
N	191200	1849	5/14/1998	34	12	PCS-00	006286		95	T-956	200	Yes	5213025	34-12-PCS-00-006286
N	191200	13726	5/14/1998	34	21	PCS-00	006286		95	T-956	200	Yes	5213025	34-21-PCS-00-006286
	19173	17817		11	6	PCS-13	000355		123			Yes		11-6-PCS-13-000355
	19173	17818	8/8/1990	11	6	PCS-13	000355		123	T-97	173	Yes	1642407	11-6-PCS-13-000355
N	192059	2820	6/10/1998	12-A-1		PSD-00	048825		127	T-961	59	Yes	5246364	12-A-1-PSD-00-048825
N	192059	8896	6/10/1998	12A1		PSD-00	048825		127	T-961	59	Yes	5246364	12A1-PSD-00-048825
N	192060	2823	6/10/1998	12-A-2		PSD-00	048825		305	T-961	60	Yes	5246365	12-A-2-PSD-00-048825
N	192060	8897	6/10/1998	12A2		PSD-00	048825		305	T-961	60	Yes	5246365	12A2-PSD-00-048825
N	192266	8899	6/18/1998	12A3A		PSD-00	048972		282	T-962	66	Yes	5246567	12A3A-PSD-00-048972
N	192266	2830	6/18/1998	12-A-3-		PSD-00	048972		282	T-962	66	Yes	5246567	12-A-3-A-PSD-00-048972

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N	193557	4380	8/11/1998	384D7	PSD-00	048085	255.6	973	129	No	5311508	384D7-PSD-00-048085		
N	193557	105	12/10/1998	384-G9C	PSD-00	050313	216.14	T-997	157	Yes	5461782	384G9C-PSD-00-050313		
N	195300	34227	8/15/1998	72B	(LRC)PCS	342928	190	977	100	Yes	5344024	72B-(LRC)PCS-342928		
N	195300	6764	8/15/1998	72B	(LRC)PCS	342928	190	977	100	Yes	5344024	72B-(LRC)PSD-342928		
N	199343	43	12/10/1998	384-A-1-A	PSD-00	050490	297.35	T-997	143	Yes	5461768	384A1A-PSD-00-050490		
N	199343	4456	12/10/1998	384A1A	PSD-00	050490	297.35	T-997	143	No	5461768	384-PSD-21997		
N	199908	2675	2/4/1999	70	PCS-13	001542	150	T-1000	108	Yes	5487228	70-PCS-13-001542		
N	199908	19859	2/4/1999	70	1	PCS-13	001542	150	T-1000	108	Yes	5487228	70-1-PCS-13-001542	
N	200344	5298	2/23/1999	15	16	(LRC)PCS	1011	431	T-1002	144	No	5487654	15-16-(LRC)PCS-1011	
N	200344	7187	2/23/1999	15	16	(LRA)PCS	1011	431	T-002	144	No	5487654	15-16-(LRA)PCS-1011	
N	208544	1537	12/1/1999	13	19	PCS-04	000133	336	T-1043	144	Yes	5779603	13-19-PCS-04-000133	
N	208544	19072	12/1/1999	13	19	PCS-13	000133	336	T-1043	144	Yes	5779603	13-19-PCS-13-000133	
N	209566	19084	1/6/2000	12	5	PSD-13	002056	192	T-1048	166	Yes	5797453	12-5-PSD-13-002056	
N	209566	18923	1/6/2000	12	5	PCS-13	002056	192	T-1048	166	Yes	5797453	12-5-PCS-13-002056	
N	210187	9159	2/7/2000	2		PCS-007404	003972	D	220	T-1051	187	Yes	5804720	2-PCS-007404-003972-D
N	210187	6127	2/17/2000	2		PCS-007404	005827	D	405.38	T-1015	187	Yes	5804720	2-PCS-007404-005827-D
N	210188	6070	2/7/2000	1		PCS-007404	005827		415.34	T-1051	188	Yes	5804721	1-PCS-007404-005827-D
N	210188	9161	2/7/2000	1		PCS-007404	003972	D	218	T-1051	188	Yes	5804721	1-PCS-007404-003972-D
N	210756	8797	2/11/2000	10		PCS-00	008360		142	T-1025	156	Yes	5819525	10-PCS-00-008360
N	210756	23977	2/11/2000	10		PCS-00	008360		142	T-1054	156	Yes	5819525	10-PCS-00-008360
N	211197	23054	3/9/2000	18	2	(LRC)PSD	12971		487	T-1056	197	No	5855460	18-2-(LRC)PSD-12971
N	211197	23055	5/11/2000	18	2	(LRC)PSD	12971		487	T-1065	111	Yes		18-2-(LRC)PSD-12971
PR	21131	16111	9/7/1964	24A		(LRC)PCS	34834		500	T-425	22	Yes	761882	24A-(LRC)PCS-34834
PR	21131	29156	10/7/1964	24A		(LRC)PSD	34834		500	T425	22	Yes	761882	24A-(LRC)PSD-34834
N	211629	11462	1/25/2000	7	13	PSD-13	000335		56	T-1059	29	Yes	5855887	7-13-PSD-13-000335
N	211629	11473	1/25/2000	7	13	PSD-13	000355		56	T-1059	29	Yes	5855887	7-13-PSD-13-000355

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	214544	5959	6/21/2000	FP 144	1	PSD-00	055032		118	1073	144	Yes	5999194	FP 144-1-PSD-00-055032
	214544	21206	6/21/2000	144	1	PSD-00	055032		188	1073	144	Yes	5999194	144-1-PSD-00-055032
	214548	5956	6/21/2000	FP 148	1	PSD-00	055032		47	1073	148	Yes	5999198	FP 148-1-PSD-00-055032
	214548	31579		FP 148	1	(LRA)PCN	1540		47			Yes		FP 148-1-(LRA)PCN-1540
	214550	7433	6/21/2000	FP 150	1	PSD-00	055032		44	1073	150	Yes	5999200	FP 150-1-PSD-00-055032
	214550	21213	6/21/2000	FP 150	1	PSD-00	055032		44	1073	150	Yes	5999200	FP 150-1-PSD-00-055032
	214554	5950	6/21/2000	154 FP	1	PSD-00	055032		25	1073	154	Yes	5999204	154 FP-1-PSD-00-055032
	214554	21215	6/21/2000	FP 154	1	PSD-00	055032		25	1073	154	Yes	5999204	FP 154-1-PSD-00-055032
N	215661	19603	7/6/2000	3		PCS-007404	005445	D	60	T-1079	61	No	5986862	3-PCS-007404-005445-D
N	215661	18379	7/6/2000	3		PCS-007404	005445	D	60	T-1079	61	Yes	5986862	3-PCS-007404-005445-D
N	215662	15495	7/6/2000	7A		PSD-00	047456		60	T-1079	62	Yes	5986863	7A-PSD-00-047456
N	215662	18380	7/6/2000	7A		PSD-00	046456		50	T-1079	62	Yes	5986863	7A-PSD-00-046456
N	218503	9585	9/29/2000	1	4	PCS-13	001542		345	T-1093	103	Yes	6078952	1-4-PCS-13-001542
N	218503	11230	9/29/2000	1	4	PCS-13	001574		3445	T-1093	103	Yes	6078952	1-4-PCS-13-001574
N	219101	3657	10/23/2000	2-B		BSD-04	000436		606	T-1096	101	Yes	6109834	2-B-BSD-04-000436
N	219101	7694	10/23/2000	2B		PSD-04	000436		606	T-1096	101	Yes	6109834	2B-PSD-04-000436
N	219495	19996	11/13/2000	49	6	PSD-13	000007		288	T-1098	95	No	6110222	49-6-PSD-13-000007
N	219495	19986	11/13/2000	49	6	PSD-13	000007		288	T-1098	95	Yes	6110222	49-6-PSD-13-000007
N	219763	7024	11/24/2000	2	19	(LRC)PCS	17435		583.3	T-1099	163	Yes	6110480	2-19-(LRC)PCS-17435
N	219763	641	11/24/2000	2	9	(LRC)PCS	17435		583.3	T-1099	163	Yes	6110480	2-9-(LRC)PCS-17435
N	219904	18565	12/1/2000	6A		PSD-13-	007124		66	T-1100	104	Yes	6110620	6A-PSD-13-007124
N	219904	18566	12/1/2000	6A		PSD-13	007124		66	T-1100	104	Yes	6110620	6A-PSD-13-007124
N	220737	1218	1/4/2000	7-F		(LRA)PSD	354786		66	T-1104	137	Yes	6136049	7F-(LRA)PSD-354786
N	220737	26909	1/4/2001	7F		(LRA)PSD	354786		66			Yes		7F-(LRA)PSD-354786
	22118	2721	10/4/1990	22	2	PSD-13	012525		181	111	118	No	1717012	22-2-PSD-13-012525
	22118	13056	10/4/1990	15	2	PSD-13	012525		180	111	118	No	1717012	15-2-PSD-13-012525
N	221267	7712	1/30/2001	11	4	PCS-007404	003763	D	356	T-1107	67	Yes	6174221	11-4-PCS-007404-003763-D

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N	221267	21778	1/30/2001	11	4	PCS-007404	003764	D	356	T-1107	67	Yes	11-4-PCS-007404-003764-D
N	223884	21864	4/26/2001	14	7	(LRC)PSD	5409		160	T-1120	84	Yes	14-7-(LRC)PSD-5409
N	223884	8269	4/26/2001	14	7	(LRC)PCS	5409		480	T-1120	84	Yes	6268708 14-7-(LRC)PCS-5409
N	223885	21865	4/26/2001	15	7	(LRC)PSD	5409		160	T-1120	85	Yes	15-7-(LRC)PSD-5409
N	223885	8272	4/26/2001	15	7	(LRC)PCS	5409		480	T-1120	85	Yes	6268709 15-7-(LRC)PCS-5409
N	225096	32525	6/15/2001	20B		(LRA)PSD	370636		321	1126	96	Yes	6290806 20B-(LRA)PSD-370636
N	225096	32040	6/15/2001	RD LOT 20B		(LRA)PSD	370636		321	1126	96	Yes	6290806 RD LOT 20B-(LRA)PSD-370636
	226223	30333	7/11/2001	12	5	PCS-00	009519		38	1132	23	Yes	6344724 12-5-PCS-00-009519
	226223	30324	7/11/2001	12	5	CS-00	009519		38	1132	23	Yes	6344724 12-5-CS-00-009519
	226254	30228	7/11/2001	43	5	PCS-00	00951		23	1132	54	Yes	6344755 43-5-PCS-00-00951
	226254	30230	7/11/2001	43	5	PCS-00	009519		23	1132	54	Yes	6344755 43-5-PCS-00-009519
	226500	23102	8/2/2001	3		PCS-00	009687		28	1133	100	Yes	3-PCS-00-009687
	226500	23113	8/2/2001	3		PCS-00	009687		28	1133	100	Yes	3-PCS-00-009687
	226852	31361	8/3/2001	ALLEY 41C2N2 24		PSD-00	056232		66	1135	52	Yes	6345352 ALLEY 41C2N224-PSD-00-056232
	226852	31362	8/3/2001	ALLEY 41C2N2 25		PSD-00	056232		133	1135	53	Yes	6345353 ALLEY 41C2N225-PSD-00-056232
N	228847	21890	9/10/2001	3	1	PSD-00	037896		304	T-1145	47	Yes	6401218 3-1-PSD-00-037896
N	228847	8118	9/10/2001	3	1	PSD-00	037896		304	T-1145	47	No	6401218 3-1-PSD-00-037896
RT	23	4263	1/27/1977	259		PSD	21997		296	T-1142	80	Yes	1151032 259-PSD-21997
RT	23	4624	1/27/1977	209		PSD	21997		296	1	23	Yes	1151032 209-PSD-21997
N	230281	19312	10/26/2001	4	2	PCS-00	007952		150	T-1152	81	Yes	4-2-PCS-00-007952
N	230281	19311	8/15/1997	4	2	PCS-00	007952		150	T-905	94	No	4861524 4-2-PCS-00-007952
	231199	31177	8/3/2001	10	2	PSD-00	055447		54	1156	199	Yes	6345663 10-2-PSD-00-055447
	231199	31176	8/3/2001	10	2	PSD-00	055447		54	1156	199	Yes	6345663 10-2-PSD-00-055447
	231606	27965	12/6/2002	6	1	PSD-0	057975		36	1159	6	Yes	6345780 6-1-PSD-0-057975

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	231606	27968	12/6/2001	6	1	PSD-00	057975		36	1159	6	Yes	6345780	6-1-PSD-00-057975
	232362	29846	12/18/2001	64	1	PSD-00	10079		53	1162	162	Yes	6346265	64-1-PSD-00-10079
	232362	29851	12/18/2001	64	1	PCS-00	010079		53	1162	162	Yes	6346265	64-1-PCS-00-010079
	232363	29852	12/18/2001	65	1	PCS-00	010079		54	1162	163	Yes	6346266	65-1-PCS-00-010079
	232363	29848	12/18/2001	65		PSD-00	010079		54	1162	163	Yes	346266	65-PSD-00-010079
N	234034	5564	2/7/2002	15B		PSD-00	040393		161	T-1171	34	Yes	6533625	15B-PSD-00-040393
N	234034	5009	2/7/2002	15-B		PSD-00	040393		161	T-1171	34	Yes	6533625	15-B-PSD-00-040393
N	234172	11991	2/12/2002	3	15	PSD-13	000335		56	T-1171	172	Yes	6533763	3-15-PSD-13-000335
N	234172	22985	2/12/2002	3	15	PSD-13	000355		56	T-1171	172	Yes	6533763	3-15-PSD-13-000355
N	244369	33094	11/21/2002	19A		PSD-00	061397		72.5	T 1222	169	No	6805217	19A-PSD-00-061397
N	244369	33091	11/21/2002	19-A		PSD-00	061397		72.5	T 1222	169	No	6895217	19-A-PSD-00-061397
N	245897	32318	1/22/2003	13	6	PCS-13	001542		180	T 1230	97	Yes	6837924	13-6-PCS-13-001542
N	245897	32299		13	6	PCS-13	001142		180			Yes		13-6-PCS-13-001142
N	249083	33226	4/30/2003	1	23	(LRC)PCS	11864		521	T 1246	83	Yes	6945163	1-23-(LRC)PCS-11864
N	249083	33007	4/30/2003	1	23	(LRC)PCS	11864		521	T 1246	83	Yes	6945163	1-23-(LRC)PCS-11864
	249323	27756	5/1/503	4	3 3	PCS-00	010130		26	1247	123	Yes	6948564	4-3 3-PCS-00-010130
	249323	27754	5/5/2003	6	3 3	PCS-00	010130		26	1247	123	Yes	6948562	4-3 3-PCS-00-010130
	249328	27761	5/5/2003	11	3 S-BLK. 3	PCS-00	010130		1.5	1247	128	Yes	6948567	11-3 S-BLK. 3-PCS-00-010130
	249328	27760	5/5/2003	11	3 3	PCS-00	00130		1.5	1247	128	Yes	6948567	11-3 3-PCS-00-00130
	250722	28257	5/16/2003	2	6	PCS-00	010642		44	1254	122	Yes	6983498	2-6-PCS-00-010642
	250722	28255	5/16/2003	2	6	PCS-00	057975		44	1254	122	Yes	6983498	2-6-PCS-00-010642
N	255538	31794	10/7/2003	3		PCS-00	010731		8786	1278	138	Yes	7171192	3-PCS-00-010731
N	255538	31545	10/7/2003	3		PCS-00	10731		8786	1278	138	Yes	7119224	3-PCS-00-10731
RT	27787	25582	4/14/1977	22	10	(LRC)PSD	166520		270	T-1172	76	Yes	042993	22-10-(LRC)PSD-166520
RT	27787	25556	4/14/1977	22	10	(LRC)PCS	166520		270	T-1172		Yes	042993	22-10-(LRC)PSD-166520
	287921	7376	4/22/1982	66	8	PCS-04	000820	D	306			Yes		66-8-PCS-04-000820-D

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	287921	15605	66	8	PCS-04	000820	306				Yes		66-8-PCS-04-000820
	288735	20013	7	15	(LRC)PCS	17667	240				Yes		7-5-(LRC)PCS-17667
	288735	20014	6/17/1982	7	15	(LRC)PCS	17667	240	T-1469	135	Yes	4315264	7-15-(LRC)PCS-17667
	29488	22004	2/1/1991	2	1	PCS-13	002056	256	T-148	88	Yes	1840570	2-1-PCS-13-002056
	29488	18758	2/1/1991	2	1	PCS-13	002056	256	T-148	88	Yes	1840570	2-1-PCS-13-002056
	30563	33622	2/12/1991	1	5	(LRC)PCS	2435	800	T-153	163	Yes	1849722	1-5-(LRC)PCS-2435
	30563	33619	2/12/1991	1	5	(LRA)PCS	2435	800	T-153	163	Yes	1849722	1-5-(LRA)PCS-2435
RT	31636	1267	9/4/1987	33A2		PSD-13	004077	259.7	159	36	Yes	54097	33A2-PSD-004077
RT	31636	6933	9/4/1987	33A2		PSD-13	004077	259.7	159	36	Yes	054097	33A2-PSD-13-004077
	32960	21923	3/8/1991	10	2	PSD-13	013606	100	165	160	No	1876254	10-2-PSD-13-013606
	32960	21921	3/8/1991	10	2	PSD-13	013606	100	165	160	No	1876254	10-2-PSD-13-013606
	33142	21742	3/8/1991	8	4	PSD-13	013606	90	166	142	Yes	1876430	8-4-PSD-13-013606
	33142	21720	3/8/1991	8		PCS-00	006315	90	166	142	Yes	1876430	8-PCS-00-006315
	33143	21732	3/8/1991	9		PCS-00	006315	90	166	143	Yes	1876431	9-PCS-00-006315
	33143	21743	3/8/1991	9	4	PSD-13	013606	90	166	143	Yes	1876431	9-4-PSD-13-013606
RT	34072	9080	5/14/1982	9	1	(LRC)PSD	49459	432	171	72	Yes	057274	9-1-(LRC)PSD-49459
RT	34072	26545	5/14/1982	9	1	(LRC)PSD	19459	432	171	72	Yes	057274	9-1-(LRC)PSD-19459
RT	34240	7169	7/14/1980	1A		(LRC)PSD	3807	815	173	47	Yes	057442	1A-(LRC)PSD-3807
RT	34240	8837	7/14/1980	1A		(LRC)PSD	93807	851	172	40	Yes	057442	1A-(LRC)PSD-93807
RT	34391	28140	2/15/1979	5	2	PCS	2874	820	172	191	Yes	057593	5-2-PCS-2874
RT	34391	10039	2/15/1979	5	2	PCS	2674	820	172	191	Yes	057593	5-2-PCS-2674
RT	34395	21004	7/28/1980	15	1	PCS	3874	3075	172	195	Yes	057597	15-1-PCS-3874
RT	34395	28139	7/28/1980	15	1	PCS	2874	3075	172	195	Yes	057597	15-1-PCS-2874
RT	35090	22998	6/18/1981	26	8	PSD	44779	450	176	90	Yes	028357	26-8-PSD-44779
RT	35090	22997	6/18/2003	26	8	PSD	44779	450			Yes		26-8-PSD-44779
RT	3608	4659	4/4/1988	23F		PSD-13	005333	134	19	8	Yes	013390	23F-PSD-13-005333
RT	3608	34246	4/4/1988	RD LOT		PSD-13	005333	134	19	3	Yes	013390	RD LOT 23F-PSD-13-005333

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			23F											
	39810	31060	6/6/1991	810B12	PSD-13	014715	90	T 200	10	Yes	1938929	810B12-PSD-13-014715		
	39810	31059	6/6/1991	810B12	PSD-13	014715	90	T-200	10	Yes	1938929	810B12-PSD-13-014715		
RT	41333	24415	8/15/1980	9B	(LRC)PSD	248365	483	207	133	Yes	063752	9B-(LRC)PSD-248365		
RT	41333	24972	8/15/1980	9B	(LRC)PCS	248365	403	207	133	Yes	063752	9B-(LRC)PCS-248365		
	41655	13132	7/2/1991	25K8	(LRC)PSD	539	1007	T-209	55	No	1944593	25K8-(LRC)PSD-539		
	41655	10592	7/2/1991	25K8	(LRC)PSD	539	1007	T-209	55	No	1944593	25K8-(LRC)PSD-539		
RT	47433	4146	10/10/1947	294	PSD	21997	320	238	33	Yes	071999	294-PSD-21997		
RT	47433	4155		294	PSD	21997	320	238	33	Yes	071999	294-PSD-21997		
RT	50396	4757	10/20/1987	RD 3B3	(LRC)PSD	339822	64	252	196	Yes	075852	RD 3B3-(LRC)PSD-339822		
RT	50396	34261	10/20/1987	3B3	(LRC)PSD	339822	64	252	196	Yes	075825	3B3-(LRC)PSD-339822		
	58577	32615	4/24/1992	3	15	(LRC)PCS	16631	429	T 293	177	Yes	2235723	3-15-(LRC)PCS-16631	
	58577	33145	4/24/1992	3	1	(LRC)PCS	16631	429	T-293	177	Yes	2235723	3-1-(LRC)PCS-16631	
RT	62780	8233	3/12/1970	2	1	(LRC)PSD	44030	450	314	180	No	092611	2-1-(LRC)PSD-44030	
RT	62780	34857	3/12/1970	2	1	(LRC)PSD	44033	450	314	180	No	092611	2-1-(LRC)PSD-44033	
T	64587	10160	4/11/1979	4B		(LRC)PSD	40312	268			No		4B-(LRC)PSD-40312	
T	64587	10134	4/11/1979	4B		(LRC)PCS	40312	268			No		4B-(LRC)PCS-40312	
	68425	32823	10/6/1992	90	6	PCS-007404	003985	D	36	T 343	25	Yes	2436310	90-6-PCS-007404-003985-D
	68425	32829	10/6/1992	ALLEY 90	6	PCS-007404	003985	D	36	T 343	26	Yes	2436310	ALLEY 90-6-PCS-007404-003985-D
	68579	22357	10/6/1992	67	10	PCS-007404	003985	D	45	T-343	179	Yes	2436464	67-10-PCS-007404-003985-D
	68579	22359	10/6/1992	ALLEY 67	10	PCS-007404	003985	D	45	T-343	179	Yes	2436464	ALLEY 67-10-PCS-007404-003985-D
	68810	34885	9/28/1992	2	1	(LRC)PSD	44033	450	T-345	10	Yes	2436703	2-1-(LRC)PSD-44033	
	68810	8234	9/28/1992	2	1	(LRC)PSD	44030	450	T-345	10	Yes	2436703	2-1-(LRC)PSD-44030	
	68858	23165	10/6/1992	22	13	PCS-007404	003985	D	150	T-345	58	No	2436750	22-13-PCS-007404-003985-D
	68858	23140	10/6/1992	22	13	PCS-007404	003985	D	150	T-345	58	No	2436750	22-13-PCS-007404-003985-D
	68866	23144	10/6/1992	30	13	PSD-007404	003985	D	181	T-345	66	No	2436758	30-13-PCS-007404-003985-D
	68866	23169	10/6/1992	30	13	PCS-007404	003985	D	181	T-345	66	No	2436758	30-13-PCS-007404-003985-D

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	68867	23146	10/6/1992	31	13	PSD-007404	003985	D	147	T-345	67	Yes	2436759	31-13-PCS-007404-003985-D
	68867	23171	10/6/1992	31	13	PCS-007404	003985	D	147	T-345	67	No	2436759	31-13-PCS-007404-003985-D
	68870	23172	10/6/1992	3	14	PCS-007404	003985	D	150	T-345	70	No	2436762	3-14-PCS-007404-003985-D
	68870	23148	10/6/1992	3	14	PSD-007404	003985	D	150	T-345	70	No	2436762	3-14-PCS-007404-003985-D
	68879	23150	10/6/1992	12	14	PSD-007404	003985	D	150	T-345	79	No	2436771	12-14-PCS-007404-003985-D
	68879	23174	10/6/1992	12	14	PCS-007404	003985	D	150	T-345	79	No	2436771	12-14-PCS-007404-003985-D
	68882	23154	10/6/1992	15	14	PSD-007404	003985	D	150	T-345	82	No	2436774	15-14-PCS-007404-003985-D
	68882	23176	10/2/1992	15	14	PCS-007404	003985	D	150	T-345	82	No	2436774	15-14-PCS-007404-003985-D
	68883	23156	10/6/1992	16	14	PSD-007404	003985	D	150	T-345	83	No	2436775	16-14-PCS-007404-003985-D
	68883	23178	10/6/1992	16	14	PCS-007404	003985	D	150	T-345	83	No	2436775	16-14-PCS-007404-003985-D
	68884	23180	10/6/1992	17	14	PCS-007404	003985	D	150	T-345	84	No	2436776	17-14-PCS-007404-003985-D
	68884	23158	10/6/1992	17	14	PSD-007404	003985	D	150	T-345	84	No	2436776	17-14-PCS-007404-003985-D
RT	70317	8217	9/11/1969	6	13	PCS	2874		560	352	117	Yes	104119	6-13-PCS-2874
RT	70317	8218	9/11/1969	6	13	PCS	2874		560	352	117	Yes	104119	6-13-PCS-2874
	75985	23151	1/4/1993	12	14	PSD-007404	003985	D	150	T-380	185	Yes	2541868	12-14-PCS-007404-003985-D
	75985	23175	1/4/1993	12	14	PCS-007404	003985	D	150	T-380	185	Yes	2541868	12-14-PCS-007404-003985-D
	75992	23173	1/4/1993	3	14	PCS-007404	003985	D	150	T-380	192	Yes	2541875	3-14-PCS-007404-003985-D
	75992	23149	1/4/1993	3	14	PSD-007404	003985	D	150	T-380	192	Yes	2541875	3-14-PCS-007404-003985-D
RT	79295	4319	6/2/1986	233		PSD	21997		297	397	95	Yes	115329	233-PSD-21997
RT	79295	4563	6/2/1986	223		PSD	21997		297	397	95	Yes	115329	223-PSD-21997
	79994	21599	2/8/1993	16	5	PCS-007404	003985	D	180	T-400	194	Yes	2574471	16-5-PCS-007404-003985-D
	79994	21597	10/6/1992	16	5	PCS-007404	003985	D	180	T-342	117	No	2436202	16-5-PCS-007404-003985-D
RT	80632	23322	5/3/1977	29	12	(LRC)PSD	166520		285	404	32	Yes	118183	29-12-(LRC)PSD-166520
RT	80632	23320		29	12	(LRC)PSD	116620		285			Yes		29-12-(LRC)PSD-166520
	80938	32564	2/23/1993	OPEN SPACE LOT 21	1	PSD-007404	024969	D	1463	T 405	138	Yes	2575386	OPEN SPACE LOT 21-1-PSD-007404-024969-D
	80938	33163	2/23/1993	OPEN SPACE	1	PSD-007404	024969	D	1483	T-405	138	Yes	2575386	OPEN SPACE 21-1-PSD-007404-024969-D

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			21											
80938	33159	2/23/1993	OPEN SOACE 21	1	PSD-007404	024969	D	1483	T-405	138	Yes	2575386	OPEN SPACE 21-1-PSD-007404-024969-D	
81914	777	3/9/1993	17A		(LRC)PSD	347953		136	410	114	Yes	2618631	17A-(LRC)PSD-347953	
81914	30755	3/9/1993	17A		(LRA)PSD	347953		136	410	114	Yes	2618631	17A-(LRA)PSD-347953	
RT	82573	3/4/1985	14		(LRC)PCS	1246		1000	413	173	Yes	120629	14-(LRC)PCS-1246	
RT	82573	3/4/1985	14		(LRC)PCS	1246		1000	413	173	Yes	120629		
RT	82845	3/13/1974	4		(LRC)PCS	12692		400	415	45	Yes	120907	4-(LRC)PCS-12692	
RT	82845	3/13/1974	4		(LRC)PCS	126921		400	415	45	Yes	120907	4-(LRC)PCS-126921	
	84512	23170	4/19/1993	30	13	PCS-007404	003985	D	181	T-423	112	Yes	2655557	30-13-PCS-007404-003985-D
	84512	23145	4/19/1993	30	13	PSD-007404	003985	D	181	T-423	112	Yes	2655557	30-13-PCS-007404-003985-D
	84513	23157	4/19/1993	16	14	PSD-007404	003985	D	150	T-423	113	Yes	2655558	16-14-PCS-007404-003985-D
	84513	23179	4/19/1993	16	14	PCS-007404	003985	D	150	T-423	113	Yes	2655558	16-14-PCS-007404-003985-D
	91755	35005	8/2/1993	2B		PSD-007404	027360	D	60	T-459	155	No	2766050	2B-PSD-007404-027360-D
	91755	14606	8/2/1993	2B		PSD-004704	027360	D	60	T-459	155	No	2766050	2B-PSD-004704-027360-D
	93572	6723	9/1/1993	15	11	(LRC)PCS	17435	4	430.3	T-468	172	Yes	2806712	15-11-(LRC)PCS-17435
	93572	31515	9/1/1993	15	1	(LRC)PCS	17435		430	T 468	172	Yes	2806712	15-1-(LRC)PCS-17435
	93931	23181	9/8/1993	17	14	PCS-007404	003985	D	150	T-470	131	Yes	2819062	17-14-PCS-007404-003985-D
	93931	23159	9/8/1993	17	14	PSD-007404	003985	D	150	T-470	131	Yes	2819062	17-14-PCS-007404-003985-D
	94903	927	9/23/1993	20I		PSD-007404	024355	D	37	475	103	Yes	2835701	20I-PSD-007404-024355D
	94903	5575	9/23/1993	20I		PSD-007404	024355	D	37	475	103	Yes	2835701	20I-PSD-007404-024355-D
	94904	5574	9/23/1993	20G		PSD-007404	024355	D	37	475	104	Yes	2835702	20G-PSD-007404-024355-D
	94904	930	9/23/1993	20G		PSD-007404	024355	D	37	475	104	Yes	2835702	20G-PSD-007404-024355D
	94920	5573	9/23/1993	20F		PSD-007404	024355	D	37	474	120	Yes	2835717	20F-PSD-007404-024355-D
	94920	931	9/23/1993	20F		PSD-007404	024355	D	37	474	120	Yes	2835717	20F-PSD-007404-024355D
	95989	23177	10/11/1993	15	14	PCS-007404	003985	D	150	T-480	189	Yes	2862151	15-14-PCS-007404-003985-D
	95989	23155	10/11/1993	15	14	PSD-007404	003985	D	150	T-480	189	Yes	2862151	15-14-PCS-007404-003985-D

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RT	97874	15567	8/11/1961	113B3		PSD	10809		34558	490	74	Yes	147531	113B3-PSD-10809
RT	97874	15538	8/11/1961	11B3		PSD	10809		34225	490	74	Yes	147531	11B3-PSD-10809
RT	99081	34070	7/10/1973	804NE WA1F3		(LRC)PSD	17985		3000	496	81	Yes	49918	804NEWA1F3-(LRC)PSD-17985
RT	99081	5537	7/10/1973	804 NEW A1F3		(LRC)PSD	17985		3000	496	81	Yes	149918	804 NEW A1F3-(LRC)PSD-17985
	99318	5707	11/26/1993	9	5	(LRC)PSD	4786		744	497	118	Yes	2933589	9-5-(LRC)PSD-4786
	99318	7444	11/26/1993	9	5	PSD	55779		744	497	118	Yes	2933358 9	9-5-PSD-55779
	99680	24375	12/2/1993	19		PCS-007404	005070	D	96	T-651	193	Yes	3673850	19-PCS-007404-005070-D
	99680	24374	12/2/1993	19		PCS-007404	005070	D	96	T-499	80	No	2933933	19-PCS-007404-005070-D

9.2 Multiple Land in the Same TCT

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RT	101180	7012	1/4/1972	RD LOT 1		(LRC)PSD	114565		355	506	181	Yes	154648	RD LOT 1-(LRC)PSD-114565
RT	101180	4775	1/4/1972	7	1	(LRC)PSD	114565		400	506	180	Yes	154647	7-1-(LRC)PSD-114565
RT	101181	4785	1/4/1972	RD LOT 4		(LRC)PSD	114565		271	506	181	Yes	154648	RD LOT 4-(LRC)PSD-114565
RT	101181	4786	1/4/1972	RD LOT 5		(LRC)PSD	114565		271	506	181	Yes	154648	RD LOT 5-(LRC)PSD-114565
RT	101181	4787	1/4/1972	RD LOT 6	3	(LRC)PSD	114565		1031	506	181	Yes	154648	RD LOT 6-(LRC)PSD-114565
RT	101181	4784	1/4/1972	RD LOT 3		(LRC)PSD	114565		3052	506	181	Yes	154648	RD LOT 3-(LRC)PSD-114565
RT	101181	4782	1/4/1972	RD LOT 2		(LRC)PSD	114565		271	506	181	Yes	154648	RD LOT 2-(LRC)PSD-114565
RT	101181	4789	1/4/1972	RD LOT 8		(LRC)PSD	114565		271	506	181	Yes	154648	RD LOT 8-(LRC)PSD-114565
RT	101181	4788	1/4/1972	RD LOT 7	3	(LRC)PSD	114565		1767	506	181	Yes	154648	RD LOT 7-(LRC)PSD-114565
RT	101181	4790	1/4/1972	RD LOT 9		(LRC)PSD	114565		271	506	181	Yes	154648	RD LOT 9-(LRC)PSD-114565
	106638	976	4/19/1994	4	35	(LRC)PSD	133236		417	T-534	38	Yes	3075529	4-35-(LRC)PSD-133236
	106638	9138	4/19/1994	5	35	(LRC)PSD	133236		417	T-534	38	Yes	3075529	5-35-(LRC)PSD-133236
RT	112898	9078	6/29/1972	11	27	(LRC)PSD	133236		392	656	98	Yes	160392	11-27-(LRC)PSD-133236
RT	112898	7487	6/29/1972	17	27	(LRC)PSD	133236		392	565	98	Yes	160392	17-27-(LRC)PSD-133236
	123408	26859	1/3/1995	11	6	PSD-007404	033186	D	54	T-618	3	Yes	3494029	11-6-PSD-007404-033186-D
	123408	26871	1/3/1995	16	6	PSD-007404	033186	D	54	T6618	8	Yes	3494034	16-6-PSD-007404-033186-D
	127249	6307	3/13/1995	5		PCS-00	006194		75	637	49	Yes	3594199	5-PCS-00-006194
	127249	7235	3/13/1995	6		PCS-00	006194		75	637	49	Yes	3594200	6-PCS-00-006194
N	131796	26279	5/23/1995	4	6	PSD-00	033472		54	T-659	196	Yes	3696130	4-6-PSD-00-033472
N	131796	26278	5/23/1995	3	6	PSD-00	033472	D	54	T-659	195	Yes	3696129	3-6-PSD-00-033472
N	132761	27731	6/8/1995	14	3	PCS-00	006286		96	T-664	161	No	3714068	14-3-PCS-00-006286
N	132761	27735	6/8/1995	20	3	PCS-00	006286		72	T-664	167	No	3714074	20-3-PCS-00-006286
N	132810	12777	6/8/1995	4	16	PCS-00	006286		72	T-665	19	No	3714117	4-16-PCS-00-006286
N	132810	12780	6/5/1995	5	16	PCS-00	006286		72	T-665	11	No	3714118	5-16-PCS-00-006286
N	133249	12883	6/8/1995	9	14	PCS-00	006286		72	T-667	49	No	3727356	9-14-PCS-00-006286

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N	133249	12877	11/17/1995	2A1		PSD-00 037909	48	T-717	49	No	3939708	2A1-PSD-00-037909
N	133250	12878	11/17/1995	2A2		PSD-00 037909	52	T-717	50	No	3939709	2A2-PSD-00-037909
N	133250	30730	6/8/1995	10	14	PCS-00 006286	72	T-667	50	No	3727357	10-14-PCS-00-006286
N	135642	21713	7/13/1995	2		PCS-00 006315	100	T-679	43	Yes	3764409	2-PCS-00-006315
N	135642	21712	7/13/1995	1		PCS-00 006315	583	T-679	42	Yes	3764408	1-PCS-00-006315
N	146725	27434	1/26/1996	2	14	PSD-13 005821	41	T-749	125	No	4054807	2-14-PSD-13-005821
N	146725	25924	1/16/1996	2		PCS-00 006922	215	T-734	125	No	4021573	2-PCS-00-006922
PR	14782	15298	6/2/1986	6	4	PCS-13 000355	120	37	182	Yes	449546	6-4-PCS-13-000355
PR	14782	15318	6/2/1986	2	4	PCS-13 000355	120	37	182	Yes	449542	2-4-PCS-13-000355
N	167157	25158	11/7/1996	9	1	PSD-00 040046	54	T-836	157	Yes	4427000	9-1-PSD-00-040046
N	167157	25373	11/7/1996	6	8	PSD-00 040046	54	T-837	57	Yes	4427100	6-8-PSD-00-040046
N	177746	10084	6/18/1977	5A		PSD-00 044244	141	T-889	146	Yes	4760785	5A-PSD-00-044244
N	177746	10090	6/18/1977	5D		PSD-00 044244	141	T-899	146	Yes	4760785	5D-PSD-00-044244
N	185663	6866	11/28/1997	38H		(LRC)PSD 343783	363	T-929	58	No	5031934	38H-(LRC)PSD-343783
N	185663	6876	11/28/1997	38F		(LRC)PSD 343783	362	929	63	No	5031939	38F-(LRC)PSD-343783
N	187786	16527	2/4/1998	10	7	PSD-00 039637	108	T-939	186	Yes	5119000	10-7-PSD-00-039637
N	187786	15995	12/10/1997	13	5	PSD-00 039636	108	929	186	Yes	5032059	13-5-PSD-00-039636
N	190261	8340	4/14/1998	1A		PSD-00 040353	133	T-952	61	Yes	5177601	1A-PSD-00-040353
N	190261	333	4/14/1998	1-A	2	PSD-00 40353	133	T-952	61	Yes	5177601	1A-2-PSD-00-40353
N	192012	20040	6/4/1996	7A		(LRC)PSD 313020	904	T-961	12	No	5246318	7A-(LRC)PSD-313020
N	192012	20044	6/4/1998	7B		(LRC)PSD 313020	904	T-961	12	No	5246318	7B-(LRC)PSD-313020
N	192265	2829	6/18/1998	12-A-3		PSD-00 048972	23	T-962	65	Yes	5246566	12-A-3-B-PSD-00-048972
N	192265	8898	6/18/1998	12A3B		PSD-00 048972	23	T-962	65	Yes	5246566	12A3B-PSD-00-048972
N	195273	4395	3/3/1998	384H5		PSD-00 048962	366.29	T-977	73	No	5343995	384H5-PSD-00-048962
N	195273	4397		384H6		PSD-00 048962	216.58	T-977	73	No	5343995	384H6-PSD-00-048962
N	203470	24786	6/10/1999	47	14	PCS-04 000133	260	T-1018	70	No	5618782	47-14-PCS-04-000133
N	203470	19697	6/10/1999	47	17	PCS-04 000133	260	T-1018	70	No	5618782	47-17-PCS-04-000133

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N	204755	30789	7/21/1999	17	5	(LRC)PSD 4786	17	1024	155	Yes	5638849	17-5-(LRC)PSD-4786
N	204755	6371	7/21/1999	11	5	(LRC)PSD 4786	972	1024	155	Yes	5638849	11-5-(LRC)PSD-4786
N	205546	15188	8/23/1999	1		PCS-00 008945	55377	T-1028	146	Yes		1-PCS-00-008945
N	205546	23047	8/23/1999	53D1		PSD 28027	30000	T-1028	146	Yes	5824221	53D1-PSD-28027
N	205546	23631	8/23/1999	LOT 1		PCS-00 008945	55377	T-1028	146	Yes		LOT 1-PCS-00-008945
N	209332	5997	1/18/2000	15	2	PCS-00 008971	36	T-1047	132	Yes	5796621	15-2-PCS-00-008971
N	209332	6001	1/18/2000	5	2	PCS-00 008971	54	T-1047	122	Yes	5796611	5-2-PCS-00-008971
	214760	369	6/21/2000	92	3	PSD-00 55032	40	1074	160	Yes	5999410	92-3-PSD-00-055032
	214760	8609	6/21/2000	91	3	PSD-00 055032	36	1074	160	Yes	5999410	91-3-PSD-00-055032
	215282	20512	6/21/2000	31	2	PSD-00 055033	21	1077	82	Yes	5999932	31-2-PSD-00-055033
	215282	20468	6/21/2000	41	2	PSD-00 055033	40	1077	92	Yes	5999942	41-2-PSD-00-055033
	215378	31711	6/21/2000	124	2	PSD-00 055033	7	1077	175	Yes	6000025	124-2-PSD-00-055033
	215378	31699	6/21/2000	127	2	PSD-00 055033	6	1077	178	Yes	6000028	127-2-PSD-00-055033
N	216960	24941		19	5	(LRC)PCS 1175	438	1086	160	Yes		19-5-(LRC)PCS-1175
N	216960	24943		21	5	(LRC)PCS 1175	458	1086	160	Yes		21-5-(LRC)PCS-1175
N	216960	24971		38	5	(LRC)PCS 1175	400	1086	160	Yes		38-5-(LRC)PCS-1175
N	216960	24969		36	5	(LRC)PCS 1175	400	1086	160	Yes		36-5-(LRC)PCS-1175
N	216960	24965		35	5	(LRC)PCS 1175	400	1086	160	Yes		35-5-(LRC)PCS-1175
N	216960	24963		34	5	(LRC)PCS 1175	400	1086	160	Yes		34-5-(LRC)PCS-1175
N	216960	24959		32	5	(LRC)PCS 1175	400	1086	160	Yes		32-5-(LRC)PCS-1175
N	216960	24957		31	5	(LRC)PCS 1175	400	1086	160	Yes		31-5-(LRC)PCS-1175
N	216960	24955		30	5	(LRC)PCS 1175	400	1086	160	Yes		30-5-(LRC)PCS-1175
N	216960	24953		27	5	(LRC)PCS 1175	400	1086	160	Yes		27-5-(LRC)PCS-1175
N	216960	24950		25	5	(LRC)PCS 1175	400	1086	160	Yes		25-5-(LRC)PCS-1175
N	216960	24938		8	5	(LRC)PCS 1175	400	1086	160	Yes		8-5-(LRC)PCS-1175
N	216960	24946		23	5	(LRC)PCS 1175	400	1086	160	Yes		23-5-(LRC)PCS-1175

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N	216960	24895	1	5	(LRC)PCS	1175	400	1086	160	Yes		1-5-(LRC)PCS-1175	
N	216960	24939	5	5	(LRC)PCS	1175	400	1086	160	Yes		5-5-(LRC)PCS-1175	
N	216960	24937	9	5	(LRC)PCS	1175	400	1086	160	Yes		9-5-(LRC)PCS-1175	
N	216960	24936	10	5	(LRC)PCS	1175	400	1086	160	Yes		10-5-(LRC)PCS-1175	
N	216960	24935	11	5	(LRC)PCS	1175	203	1086	160	Yes		11-5-(LRC)PCS-1175	
N	216960	24934	13	5	(LRC)PCS	1175	400	1086	160	Yes		13-5-(LRC)PCS-1175	
N	216960	24933	15	5	(LRC)PCS	1175	400			Yes		15-5-(LRC)PCS-1175	
N	216960	24932	16	5	(LRC)PCS	1175	400			Yes		16-5-(LRC)PCS-1175	
N	216960	24931	17	5	(LRC)PCS	1175	400			Yes		17-5-(LRC)PCS-1175	
N	216960	24902	4	5	(LRC)PCS	1175	400	1086	160	Yes		4-5-(LRC)PCS-1175	
N	216960	24900	3	5	(LRC)PCS	1175	400	1086	160	Yes		3-5-(LRC)PCS-1175	
N	216960	24948	24	5	(LRC)PCS	1175	400	1086	160	Yes		24-5-(LRC)PCS-1175	
N	216961	24591	1	1	(LRC)PCS	1175	780	1086	161	Yes		1-1-(LRC)PCS-1175	
N	216961	24618	1	2	(LRC)PCS	1175	400	1086	161	Yes		1-2-(LRC)PCS-1175	
N	216961	24626	2	2	(LRC)PCS	1175	399	1086	161	Yes		2-2-(LRC)PCS-1175	
N	216962	24672	6	3	(LRC)PCS	1175	400			Yes		6-3-(LRC)PCS-1175	
N	216962	24632	3	3	(LRC)PCS	1175	400			Yes		3-3-(LRC)PCS-1175	
N	218257	18484	9/22/2000	6	PSD-13	001046	254	T-1092	57	Yes	6078708	6-PSD-13-001046	
N	218257	22098	9/12/2000	7B	PSD-13	012229	260	1091	57	Yes	6078511	7B-PSD-13-012229	
N	219906	18563	12/1/2000	3A	PSD-00	046430	60	T-1100	102	Yes	6110618	3A-PSD-00-046430	
N	219906	18571	12/1/2000	8B	PSD-13	007127	62	T-1100	106	Yes	6110622	8B-PSD-13-007127	
	22070	11214	10/4/1990	5	5	PSD-13	012525	192	T-111	70	Yes	1716966	5-5-PSD-13-012525
	22070	8961	10/4/1990	8	5	PSD-13	012525	192	T-11	170	Yes	1717062	8-5-PSD-13-012525
N	222266	33189	2/23/2001	116C1B	(LRA)PSD	367750	246	T-1112	66	Yes	6220708	116C1B-(LRA)PSD-367750	
N	222266	32491	2/23/2001	34	7	PCS-13	001542	214	T-1112	66	Yes	6220708	34-7-PCS-13-001542
	226391	31029	7/11/2001	7	9	PCS-00	009519	54	1132	191	Yes	6344892	7-9-PCS-00-009519

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	226391	31032	7/11/2001	10	9	PCS-00	009519	54	1132	194	Yes	6344895	10-9-PCS-00-009519
	226438	30982	7/11/2001	54	9	PCS-00	009519	30	1133	38	Yes	6344939	54-9-PCS-00-009519
	226438	31175	7/11/2001	53	9	PCS-00	009519	125	1133	37	Yes	6344938	53-9-PCS-00-009519
	226440	30984	7/11/2001	56	9	PCS-00	009519	54	1133	40	Yes	6344941	56-9-PCS-00-009519
	226440	31178	7/11/2001	1	10	pcs-00	009519	54	1133	40	Yes	6344941	1-10-pcs-00-009519
	226869	28774	8/3/2001	42	1	PCS-00	009685	44	1135	96	Yes	6345396	42-1-PCS-00-009685
	226869	21411	8/3/2001	15	1	PCS-00	009685	41	1135	69	Yes	6345369	15-1-PCS-00-009685
	226880	21432	8/3/2001	26	1	PCS-00	009685	54	1135	80	Yes	6345380	26-1-PCS-00-009685
	226880	21448	8/3/2001	32	1	PCS-00	009685	40	1135	86	Yes	6345386	32-1-PCS-00-009685
N	230245	23241	10/24/2001	3		(LRC)PCS	10542	981	T-1152	45	Yes		3-(LRC)PCS-10542
N	230245	23237	10/24/2001	6		(LRC)PCS	10542	888	T-1152	46	Yes		6-(LRC)PCS-10542
N	231497	4315	11/4/2001	80B		PSD-00	052077	100.33	T-1158	97	Yes	6465159	80B-PSD-00-052077
N	231497	4316	11/4/2001	80A		PSD-00	052077	100.33	T-1158	97	Yes	6465159	80A-PSD-00-052077
N	231497	4270	7/22/1983	80		PSD	21997	301	603	84	No	199857	80-PSD-21997
N	231499	4275	12/4/2001	80C		PSD-00	052077	100.34	T-1158	99	Yes	6465161	80C-PSD-00-052077
N	231499	22809	12/4/2001	8C		PSD-00	052077	100.34	T-1158	99	Yes	6465161	8C-PSD-00-052077
	231778	28195	12/6/2001	24	5C	PSD-00	057975	42	1159	178 3	Yes	6345952	24-5C-PSD-00-057975
	231778	28193	12/6/2001	22	5C	PSD-00	057975	46	1159	176	Yes	6345950	22-5C-PSD-00-057975
	231781	28197	12/6/2001	26	5C	PSD-00	057975	52	1159	180	Yes	6345954	26-5C-PSD-00-057975
	231781	28198	12/6/2001	27	5C	PSD-00	057975	54	1159	181	Yes	6345955	27-5C-PSD-00-057975
	232303	29694	12/18/2001	5	1	PCS-00	010079	37	1162	103	Yes	6346206	5-1-PCS-00-010079
	232303	29721	12/18/2001	15	1	PCS-00	010079	35	1162	113	Yes	6346216	15-1-PCS-00-010079
	232669	28702	1/7/2002	2	1	PCS-00	010050	37.5	1194	69	Yes	6346346	2-1-PCS-00-010050
	232669	28697	1/7/2002	1	1	PCS-00	010050	47	1164	68	Yes	6346345	1-1-PCS-00-010050
	232716	28408	1/7/2002	5	2	PCS-00	010050	44	1164	116	Yes	6346393	5-2-PCS-00-010050

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	232716	28421	1/7/2002	7	2	PCS-00	010050		39	1164	118	Yes	6346395	7-2-PCS-00-010050
	232727	28525	1/7/2002	23	2	PCS-00	010050		54	1164	127	Yes	6346404	23-2-PCS-00-010050
	232727	28572	1/7/2003	41	2	PCS-00	010050		53	1164	137	Yes	6346414	41-2-PCS-00-010050
	232730	28640	1/7/2002	60	2	PCS-00	010050		33	1164	150	Yes	6346427	60-2-PCS-00-010050
	232730	28540	1/7/2003	26	2	PCS-00	010050		6	1164	130	Yes	6346407	26-2-PCS-00-010050
	232796	28869	1/7/2002	14	9B	PCS-00	010050		52	1164	195	Yes		14-9B-PCS-00-010050
	232796	28881	1/7/2002	17	9B	PCS-00	010050		36.5	1164	198	Yes		17-9B-PCS-00-010050
	232816	28693	1/7/2002	7	9A	PCS-00	010050		44	1165	16	Yes	6346493	7-9A-PCS-00-010050
	232816	28835	1/7/2002	7	9D	PCS-00	010050		40	1165	16	Yes	6346493	7-9D-PCS-00-010050
	232826	28902	1/7/2003	6	9E	PCS-00	010050		54	1165	28	Yes	6489405	6-9E-PCS-00-010050
	232826	28893	1/7/2002	4	9E	PCS-00	010050		42	1165	26	Yes	6489403	4-9E-PCS-00-010050
	232957	28446	1/7/2002	45	11	PCS-00	010050		43	1165	157	Yes	6489534	45-11-PCS-00-010050
	232957	28456	1/7/2002	55	11	PCS-00	010050		41	1165	167	Yes	6489544	55-11-PCS-00-010050
	233558	27887	1/28/2002	212	2	PCS-00	010081		42	1168	158	Yes	6489789	12-2-PCS-00-010081
	233558	27888	1/28/2002	12	2	PCS-00	010081		42	1168	158	Yes	6489789	12-2-PCS-00-010081
	233653	30607	1/28/2002	38	7	PCS-00	010081		47	1169	53	Yes	6489884	38-7-PCS-00-010081
	233653	30720	1/28/2002	43	7	PCS-00	010081		54	1169	58	Yes	6489889	43-7-PCS-00-010081
	233735	30501	1/28/2002	4	8	PCS-00	010081		15	1169	135	Yes	6489967	4-8-PCS-00-010081
	233735	30498	1/28/2002	4	15	PCS-00	010081		15	1169	135	Yes	6489966	4-8-PCS-00-010081
N	235351	23408	6/28/2002	4B		(LRA)PSD	372717		200.5	T-1192	151	Yes	6671651	4B-(LRA)PSD-372717
N	235351	18408	3/25/2002	2		PCS-007404	005936	D	81	T-1177	151	Yes	6490791	2-PCS-007404-005936-D
	23584	11132	11/7/1990	17	4	PCS-13	001574		301	118	184	Yes	1751985	17-4-PCS-13-001574
	23584	27914	1/28/2002	11	4	PCS-00	010081		21	1168	184	Yes	6489815	11-4-PCS-00-010081
N	241719	33764	10/22/2002	3	21	PCS-00	006728		96	T-1219	119	Yes	6770728	3-21-PCS-00-006728
N	241719	33275	9/24/2002	5	14	PCS-13	001193		198	T-1209	119	Yes	6740542	5-14-PCS-13-001193
N	244029	31701	11/20/2002	16A		PSD-00	056698		200	T-1221	29	Yes	6787180	16A-PSD-00-056698

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N	244029	31696	11/20/2002	16C		PSD-00	056698	200	T 1221	49	Yes	6787199	16C-PSD-00-056698
	250807	29250	7/25/2003	ALLEY 4		PSD-00	060752	281	1265	07	Yes	7051365	ALLEY 4-PSD-00-060752
	250807	30704	5/16/2003	33	8	PCS-00	010642	40	1255	07	Yes	6983583	33-8-PCS-00-010642
	250884	30523	5/16/2003	ALLEY 15		PCS-0	010642	29	1255	84	Yes	6698366	ALLEY 15-PCS-0-010642
	250884	30532	5/16/2003	ALLEY 15		PCS-00	010642	29	1255	84	Yes	6983660	ALLEY 15-PCS-00-010642
	250906	30430	5/16/2003	ALLEY 11		PCS-00	010642	11	1255	106	Yes	6983682	ALLEY 37-PCS-00-010642
	250906	30432	5/16/2003	ALLEY 37		PCS-00	010642	11	1255	106	Yes	6983682	ALLEY 37-PCS-00-010642
	252751	28929	7/25/2003	8	6	PSD-00	060752	36	1264	154	Yes	7051312	8-6-PSD-00-060752
	252751	28917	7/25/2003	5	6	PSD-00	060752	36	1264	151	Yes	7051309	5-6-PSD-00-060752
	252841	29425	8/29/2003	6	1	PCS-0	010087	54	1265	41	Yes	7051399	6-1-PCS-0-010087
	252841	29422	8/29/2003	5	1	pcs-00	010087	54	1265	41	Yes	7051399	5-1-pcs-00-010087
RT	33951	8821	5/11/1979	2	2	(LRC)PSD	133236	651	170	151	Yes	057153	2-2-(LRC)PSD-133236
RT	33951	8831	7/29/1980	15	2	(LRC)PSD	133236	585	170	154	Yes	057156	15-2-(LRC)PSD-133236
RT	34076	5672	5/21/1982	3	5	(LRC)PSD	49459	429	171	76	Yes	057278	3-5-(LRC)PSD-49459
RT	34076	603	5/21/1982	5	5	(LRC)PSD	49459	429	171	76	Yes	057278	5-5-(LRC)PSD-49459
RT	34153	9214	7/28/1980	33	7	PSD	34147	493	171	153	No	057355	33-7-PSD-34147
RT	34153	20992	4/27/1982	4	14	PSD	34147	4246	171	153	Yes	057305	4-14-PSD-34147
RT	34243	23439	5/6/1979	1	1	PSD	34573	720	172	43	Yes	057445	1-1-PSD-34573
RT	34243	24685	6/7/1979	14	3	(LRC)PCS	1175	400	172	24	No	057426	14-3-(LRC)PCS-1175
RT	34262	24879	5/11/1979	10	4	(LRC)PCS	1175	400	172	16	Yes	057419	10-4-(LRC)PCS-1175
RT	34262	9213	6/7/1979	32	7	PSD	34147	486	172	62	No	057464	32-7-PSD-34147
RT	34322	24499	4/23/1985	1	3	(LRC)PCS	1979	723	172	122	Yes	057524	1-3-(LRC)PCS-1979
RT	34322	24501	4/23/1985	2	3	(LRC)PCS	1979	711	172	123	Yes	057525	2-3-(LRC)PCS-1979
	359012	6763	4/29/1986	177		PSD	21997	400			Yes		177-PSD-21997
	359012	7309	4/29/1987	178		PSD	21997	400			No		178-PSD-21997
RT	36907	5166	11/3/1975	3	3B	(LRC)PSD	133236	400	185	108	No	057914	3-3B-(LRC)PSD-133236
RT	36907	20668	11/9/1973	1	32	(LRC)PSD	133236	479	185	107	Yes	057913	1-32-(LRC)PSD-133236

TCT No	ID	Date of Reg	Lot	Block	Plan Number		Area	Book	Page	Live	Serial No	SPI
	38673	3577	25-5-1-A-1		PSD-13	016916	175.94	T-194	73	Yes	1926041	25-5-1-A-1-PSD-13-016916
	38673	9127	25L1A1		PSD-13	016916	176	T-194	73	Yes	1926041	25L1A1-PSD-13-016916
	39661	2570	19	10	PCS-13	000355	129	T-199	61	Yes	1926982	19-10-PCS-13-000355
	39661	18246	36	17	PCS-13	000355	129	T-199	61	Yes	1926982	36-17-PCS-13-000355
PR	40252	14623	82	8	PCS-04	000820	274	101	252	Yes	059463	82-8-PCS-04-000820
PR	40252	29157	82	9	PCS-04	000820	274			Yes	059463	82-9-PCS-04-000820
RT	41350	6837	RD LOT 10		PSD	34147	5397	207	150	No	063769	RD LOT 10-PSD-34147
RT	41350	24533	5	1	PSD	43031	525	207	174	Yes	063793	5-1-PSD-43031
	45646	3583	25-L-1-A		PSD-13	016916	300	T-229	46	Yes	2004450	25-L-1-A-PSD-13-016916
	45646	9173	25L1A2		PSD-13	016916	301	T-229	46	Yes	2004450	25L1A2-PSD-13-016916
PR	45651	27555	RD LOT 9		PSD-04	001728	2495	1304	143	Yes	3859764	RD LOT 9-PSD-04-001728
PR	45651	27565	RD LOT 18		PSD-04	001728	846	1304	143	Yes	3859764	RD LOT 18-PSD-04-001728
PR	45651	27564	RD LOT 17		PSD-04	001728	265	1304	143	Yes	3859764	RD LOT 17-PSD-04-001728
PR	45651	27563	RD LOT 16		PSD-04	001728	2936	1304	143	Yes	3859764	RD LOT 16-PSD-04-001728
PR	45651	27562	RD LOT 15		PSD-04	001728	1477	1304	143	Yes	3859764	RD LOT 15-PSD-04-001728
PR	45651	27561	RD LOT 14		PSD-04	001728	2453	1304	143	Yes	3859764	RD LOT 14-PSD-04-001728
PR	45651	27558	RD LOT 12		PSD-04	001728	1978	1304	13	Yes	3859764	RD LOT 12-PSD-04-001728
PR	45651	27554	RD LOT 8		PSD-04	001728	1189	T-1304	143	Yes	3859764	RD LOT 8-PSD-04-001728
PR	45651	27557	RD LOT 11		PSD-04	001728	1585	1304	143	Yes	3859764	RD LOT 11-PSD-04-001728
PR	45651	27545	RD LOT 1		PSD-04	001728	7738	T-1304	143	Yes	3859764	RD LOT 1-PSD-04-001728
PR	45651	27553	RD LOT 7		PSD-04	001728	675	T-1304	143	Yes	3859764	RD LOT 7-PSD-04-001728
PR	45651	27552	RD LOT 6		PSD-04	001728	2687	T-1304	143	Yes	3859764	RD LOT 6-PSD-04-001728
PR	45651	27550	RD LOT 5		PSD-04	001728	6269	T-1304	143	Yes	3859764	RD LOT 5-PSD-04-001728
PR	45651	27549	RD LOT 4		PSD-04	001728	2337	T-1304	143	Yes	3859764	RD LOT 4-PSD-04-001728
PR	45651	27548	RD LOT 3		PSD-04	001728	2616	T-1304	143	Yes	3859764	RD LOT 3-PSD-04-001728

TCT No	ID	Date of Reg	Lot	Block	Plan Number			Area	Book	Page	Live	Serial No	SPI	
PR	45651	27547	7/23/1979	RD LOT 2		PSD-04	001728		2951	T-1304	143	Yes	3859764	RD LOT 2-PSD-04-001728
PR	45651	27556	7/23/1979	RD LOT 10		PSD-04	001728		2230	1304	143	Yes	3859764	RD LOT 10-PSD-04-001728
PR	45651	27559	7/23/1979	RD LOT 13		PSD-04	001728		1569	1304	143	Yes	3859764	RD LOT 13-PSD-04-001728
RT	4755	27311	7/2/1979	23	29	(LRC)PCS	11864		465	24	156	No	012194	23-29-(LRC)PCS-11864
RT	4755	27313	7/2/1979	22	29	(LRC)PCS	11864		400	24	155	No	012193	22-29-(LRC)PCS-11864
RT	47755	34584	5/22/1984	2	19	PSD-13	000335		61	239	154	No	072407	2-19-PSD-13-000335
RT	47755	34583	5/22/1984	3	19	PSD-13	000335		61	239	155	Yes	072408	3-19-PSD-13-000335
	53128	31804	1/28/1992	15A1		PSD-007404	020242	D	100	T 266	128	No	2128031	15A1-PSD-007404-020242-D
	53128	31799	1/28/1992	15C1		PSD-007404	020242	D	100	T 266	125	No	2128028	15C1-PSD-007404-020242-D
RT	57608	11667	8/15/1985	6	3	PCS-13	000359		358	T-1675	115	Yes	028344	6-3-PCS-13-000359
RT	57608	26227	8/6/1984	4	21	(LRC)PCS	2435		750	T-1605	60	Yes	082517	4-21-(LRC)PCS-2435
RT	57972	23883	10/20/1969	56B1		BSD	1136		7464	T-290	172	Yes	082692	56B1-BSD-1136
RT	57972	23871	10/20/1969	49B		PSD	760		8099	T-290	172	Yes	082692	49B-PSD-760
RT	5898	34355	3/25/1985	5	12	PCS-04	000133		240	295	189	Yes	086559	5-12-PCS-04-000133
RT	5898	25674	4/27/1978	17A		(LRC)PSD	209971		312	T-30	98	Yes	016498	17A-(LRC)PSD-209971
RT	59386	25615	1/9/1978	1	9	(LRC)PSD	166520		240	T-1211	7	No	087267	1-9-(LRC)PSD-166520
RT	59386	34821	1/9/1978	9	17	(LRC)PSD	166520		312	297	186	Yes	087267	9-17-(LRC)PSD-166520
RT	63961	25829	1/21/1958	12	14	PCS	3088		751	320	161	Yes	093801	12-14-PCS-3088
RT	63961	31881	1/21/1958	12	15	PCS	3088		751	320	161	No	093801	12-15-PCS-3088
RT	68000	7561	4/4/1986	11	12	(LRC)PCS	17435		400	340	200	Yes	100787	11-13-(LRC)PCS-17435
RT	68000	34258	2/2/1988	227		PSD	21997		320	345	200	Yes	102794	227-PSD-21997
	71088	27169	10/28/1992	8	4	PSD-007404	023961	D	36	356	88	No	2472786	8-4-PSD-007404-023961-D
	71088	27170	10/28/1992	RD LOT 8		PSD-007404	023961	D	132	357	88	Yes	2472986	RD LOT 8-PSD-007404-023961-D
	71092	27178	10/28/1992	2	5	PSD-007404	023961	D	54	356	94	No	2472792	2-5-PSD-007404-023961-D

TCT No	ID	Date of Reg	Lot	Block	Plan Number			Area	Book	Page	Live	Serial No	SPI	
	71092	27176	10/28/1992	12	4	PSD-007404	023961	D	54	356	92	No	2472790	12-4-PSD-007404-023961-D
	71104	27190	10/28/1992	12	5	PSD-007404	023961	D	54	356	104	No	2472802	12-5-PSD-007404-023961-D
	71104	27191	9/23/1992	23B		(LRC)PSD	51579		233	356	4	No	2472704	23B-(LRC)PSD-51579
RT	71371	1312	3/26/1979	15	20	(LRC)PCS	17435		400	357	171	Yes	105695	15-20-(LRC)PCS-17435
RT	71371	5387	3/26/1979	9	7	(LRC)PCS	1011		400	357	171	Yes	105695	9-7-(LRC)PCS-1011
RT	71842	13981	6/24/1982	100B		PSD	760		52880	360	42	Yes	106174	100B-PSD-760
RT	71842	13977	6/24/1982	96B		PSD	760		130963	360	42	Yes	106174	96B-PSD-760
RT	79295	4228	6/2/1986	297		PSD	21997		297	397	95	Yes	115329	297-PSD-21997
RT	79295	4319	6/2/1986	233		PSD	21997		297	397	95	Yes	115329	233-PSD-21997
	81154	9555	2/23/1993	1	7	PSD-007404	024969	D	105	T-406	151	No	2575596	1-7-PSD-007404-024969-D
	81154	9630	2/23/1993	4	7	PSD-007404	024696	D	96	T-406	154	Yes	2575599	4-7-PSD-007404-024696-D
	88797	23875	6/18/1993	11	1	PCS-007404	003985	D	150	T-444	197	Yes	2725946	11-1-PCS-007404-003985-D
	88797	23876	6/18/1993	8	8	PCS-007404	003985	D	180	T-444	198	Yes	2725947	8-8-PCS-007404-003985-D
RT	95075	7495	2/11/1983	5	11	(LRC)PCS	17435		453.1	476	72	Yes	141513	5-11-(LRC)PCS-17435
RT	95075	24189	7/28/1987	16A		(LRC)PSD	338389		190	476	75	Yes	141516	16A-(LRC)PSD-338389
	95297	17642	9/22/1993	3	3	PSD-007404	026437	D	40	T-477	97	Yes	2836079	3-3-PSD-007404-026437-D
	95297	1597	9/22/1993	2	3	PSD-007404	026437	D	40	T-477	97	Yes	2836079	2-3-PSD-007404-026437-D

10 Appendix 3 - Number of Titles per CIM

This report displays a count of Live TCTs recorded in the cross index for a particular CIM.

CIM Number	Total Titles	CIM Number	Total Titles
	4723	14402105120	287
11412104430	1	14402105210	166
11412106340	1	14402105220	154
14121063402	1	14402105230	52
14401052101	5	14402105240	201
14402104110	32	14402105420	106
14402104112	3	14402105544	1
14402104113	59	14402106030	9
14402104114	40	14402106110	343
14402104120	161	14402106120	209
14402104121	8	14402106130	317
14402104122	29	14402106140	44
14402104131	42	14402106310	13
14402104132	3	14402106440	2
14402104140	16	14410214120	1
14402104210	157	14412044242	1
14402104211	29	14412103405	1
14402104213	6	14412104110	1
14402104220	163	14412104120	103
14402104223	5	14412104121	47
14402104230	82	14412104123	40
14402104231	2	14412104130	9
14402104232	6	14412104134	164
14402104234	33	14412104140	133
14402104240	26	14412104143	11
14402104241	5	14412104210	58
14402104410	6	14412104211	237
14402105110	231	14412104212	365
14402105112	75	14412104214	56
14402105113	82	14412104220	34
14402105114	109	14412104221	97

CIM Number	Total Titles	CIM Number	Total Titles
14412104222	122	14412105210	21
14412104223	445	14412105220	65
14412104224	227	14412105223	22
14412104230	130	14412105230	6
14412104240	56	14412105240	35
14412104241	45	14412105241	232
14412104242	8	14412105242	244
14412104243	198	14412105243	56
14412104244	126	14412105244	193
14412104310	106	14412105310	22
14412104314	9	14412105311	132
14412104320	229	14412105313	279
14412104324	4	14412105320	4
14412104330	125	14412105330	194
14412104340	244	14412105331	21
14412104341	5	14412105340	69
14412104342	62	14412105410	55
14412104344	27	14412105420	107
14412104410	241	14412105430	287
14412104413	7	14412105440	61
14412104420	142	14412106110	206
14412104422	193	14412106120	26
14412104424	316	14412106130	197
14412104430	199	14412106131	103
14412104431	36	14412106133	86
14412104433	31	14412106140	228
14412104434	21	14412106142	67
14412104440	216	14412106210	1
14412104442	209	14412106211	140
14412105110	25	14412106230	127
14412105111	45	14412106231	222
14412105130	25	14412106310	316
14412105131	6	14412106320	256
14412105133	84	14412106330	125

CIM Number	Total Titles	CIM Number	Total Titles
14412106340	483	14422105132	61
14412106347	1	14422105133	26
14412106410	294	14422105134	53
14412106430	216	14422105140	103
14412106446	1	14422105210	93
1441214410	1	14422105212	73
14412153131	1	14422105220	18
14412163102	1	14422105221	6
14412163401	1	14422105230	105
14412163402	1	14422105240	389
14412163405	1	14422105310	47
14421063104	3	14422105320	14
14421063405	1	14422105321	25
14422104240	49	14422105330	49
14422104340	132	14422105333	273
14422104410	37	14422105340	28
14422104420	60	14422105410	58
14422104421	2	14422105420	128
14422104422	6	14422105430	31
14422104430	171	14422105440	206
14422104431	1	14422106110	26
14422104433	134	14422106120	226
14422104434	13	14422106130	48
14422104440	74	14422106140	279
14422104441	37	14422106210	125
14422104442	182	14422106220	24
14422104443	25	14422106230	660
14422104444	457	14422106232	1
14422105110	8	14422106240	55
14422105113	1	14422106310	179
14422105114	20	14422106320	206
14422105120	18	14422106330	233
14422105130	160	14422106340	199
14422105131	128	14422106410	212

CIM Number	Total Titles
14422106420	59
14422106430	109
14422106433	3
14422106440	7
14422107110	19
14422107130	43
14422144201	1
14432105420	31
14432105440	38
14432106230	9
14432106232	6
14432106234	6
14432106240	259
14432106241	16
14432106242	17
14432106243	32
14432106244	45
14432106310	63
14432106320	26
14432106330	160
14432106340	35
14432106410	18
14432106420	72
14432106422	19
14432106424	12
14432106430	38
14432107110	4
14432107130	83
14432107131	47
14432107133	16
14432107310	14
14432107311	26
14432107330	3
14441210634	1