MS 1759:2012

GEOGRAPHIC INFORMATION/GEOMATICS - FEATURE AND ATTRIBUTE CODES

ICS: 35.080

Descriptors: data processing, information interchange, network interconnection, communication procedure, security techniques, management, concepts, models, rules (instructions)

2012

CONTENTS

Committee representation

will be decided by the committee of TC2

The Information Technology, Telecommunications and Multimedia Industry Standards Committee (ISC G) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Communication and Multimedia Commission
Computer Industry Association of Malaysia
Department of Standards Malaysia
Federation of Malaysian Manufacturers
Institut Tadbiran Awam Negara
Malaysian Administrative, Modernisation and Management Planning Unit
Malaysian Industry Government Group for High Technology
Malaysian Institute of Microelectronics Systems
Malaysian National Computer Confederation
Ministry of Defence
Ministry of Domestic Trade and Consumer Affairs
Ministry of Energy, Communication and Multimedia
Ministry of International Trade and Industry
Multimedia University
National ICT Security and Emergency Response Centre
SIRIM Berhad
Telekom Malaysia Berhad
The Institution of Engineers, Malaysia
Universiti Teknologi Mara (UiTM)
Universiti Teknologi Malaysia
Universiti Tun Abdul Razak

The Technical Committee on Geographic Information/Geomatics which developed this Malaysian Standard consists of representatives from the following organisations:

C-Tel Technologies Sdn Bhd

Department of Survey and Mapping Malaysia

ESRI South Asia Sdn Bhd

GeoInfo Services Sdn Bhd

Malaysian Agriculture Research and Development Institute

Malaysian Centre for Geospatial Data Infrastructure

Malaysian Centre for Remote Sensing

Minerals and Geoscience Department

Public Works Department

SIRIM Berhad (Secretariat)

Universiti Teknologi Mara (UiTM)

Universiti Sains Malaysia

Universiti Teknologi Malaysia

FOREWORD

This Malaysian Standard was developed by the Technical Committee on Geographic Information/Geomatics under the authority of the Information Technology, Telecommunication and Multimedia Industry Standards Committee based on the working draft prepared by the Technical Standards Committee of the Malaysian Geospatial Data Infrastructure (MyGDI).

This Standard cancels and replaces MS 1074:1992, Code of practice for the exchange of digital feature coded mapping data.

GEOGRAPHIC INFORMATION/GEOMATICS - FEATURE AND ATTRIBUTE CODES

0. Introduction

This Malaysian Standard is intended for use by all businesses that produce, distribute or utilise geospatial data, either alone or in conjunction with non-geospatial data. These range from geographic information systems, decision support systems, data mining, data warehousing, to modelling and simulations. Application areas include but not limited to resource planning and management, automated mapping, geo-engineering, construction, communication, transportation and utilities.

It provides a system for feature and attribute coding by which producers and users of geographic information may use in structuring their digital spatial data. This standard facilitates sharing and exchanging between both data producers and users.

This Standard represents a major improvement over MS 1074:1992 and contains some 2000 additional features and organised into twelve main categories such as aeronautical, geology, soil, utility and special use.

1. Scope

This Malaysian Standard specifies the method for encoding of geospatial data and provides the description of features and their associated attributes for the exchange of digital geographic information.

2. Normative references

The following normative references are indispensable for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the normative reference (including any amendments) applies.

ISO/DIS 19104: [1)] , -*Geographic information - Terminology*

ISO/DIS 19110: [2)] , -*Geographic information - Methodology for feature cataloguing*

DIGEST Part 4 - Feature and Attribute Coding Catalogue (FACC)

United Nation Convention on Laws of the Sea (1982)

National Land Code (1965)

Laws of Sarawak, Land Code

Sabah Land Ordinance (1930)

[1] To be published.
[2] To be published.

3. Terms and definitions

For the purposes of this Malaysian Standard, the terms and definitions given in ISO/DIS 19104 apply.

4. Features and attributes

This Standard describes the encoding of the world in terms of features and attributes. Features are real world objects while attributes are properties or characteristics associated with the objects.

4.1 Coding of features and attributes

This standard has not been developed to the requirements of any single application or level of resolution. This standard is also not meant to support any specific digital product.

As with any dictionary, there may be more than one way to encode spatial entities, either by offering a choice of features or a combination of features and attributes. For example, an airport is listed as feature AB0010 - Aerodrome (A defined area on land or water intended to be used either wholly or in part for the arrival, departure and surface movement of aircrafts, could also be coded as feature BD0010 - Institutional Building with attribute INU (Institutional Usage) with a coded value of 001 (Airport Terminal). The choice is entirely up to user's own application and interpretation; to code only the terminal building or the entire aerodrome area.

Feature codes are shown in Annex A and Attribute codes and values are given in Annex B. Annex B also provides information as to the units, formats, ranges, increments and maximum text characters typically associated with each actual value attribute.

If a feature does not reside within this standard, it is allowed for a user-designated features and associated attributes. Otherwise, features and attributes shall be encoded using this standard. The process for amending and updating this standard is described in 4.3.

4.2 Coding structure

4.2.1 Features

Each feature is identified by a unique six-character code. The first character corresponds to the feature category and can have an alphabetic value from A through Z. Currently there are twelve feature categories, including one category, X, which has been reserved for special use (dataset-specific) features. The categories are as follows:

CODE	CATEGORY
A	Aeronautical
B	Built Environment
D	Demarcation
G	Geology
H	Hydrography
R	Hypsography
S	Soil
T	Transportation

U	Utility
V	Vegetation
X	Special Use (Dataset-specific)
Z	General

Each major category is further divided into subcategories which are identified by the second character of the six-digit code, containing an alphabetic value from A through Z. The subcategories that have currently been defined for each major category are as follows:

A-Aeronautical

AA	Air Space
AB	Aerodrome

B-Built Environment

BA	Residential
BB	Commercial
BC	Industrial
BD	Institutional
BE	Educational
BF	Religious
BG	Recreational
BH	Cemetery
BJ	Built-up

D-Demarcation

DA	Topographic
DB	Maritime
DC	Cadastral
DD	Planning Land Use

G-Geology

GA	Geolithology
GB	Mineral
GC	Fossils
GD	Mining
GE	Exploration
GF	Geological Features
GG	Geoscience

H-Hydrography

HA	Coastal Hydrography
HB	Shoreline Structures
HC	Fishing Facillities
HD	Ports and Harbours
HE	Navigation Aids
HF	Danger and Hazard
HG	Depth Information
HH	Inland Water
HJ	River Structure
HK	Offshore
HL	Island
HM	Miscellaneous

R-Hypsography

RA Relief Portrayal

S-Soil

SA Histosols
SB Spodosols
SC Andisols
SD Oxisols
SE Vertisols
SF Ultisols
SG Mollisols
SH Alfisols
SI Inceptisols
SK Entisols

T-Transportation

TA Land Transportation
TB Water Transportation

U-Utility

UA Electricity
UB Telecommunication
UC Water Supply
UD Oil and Gas
UE Broadcasting
UF Sewerage
UG Waste Management
UH Meteorological

V-Vegetation

VA Agriculture
VB Forest
VC Miscellaneous

X-Special Use (Dataset specific)

XA Terrain Analysis Dataset
XB Meteorological Dataset

Z-General

ZA Control Points
ZB Label of Geographical Names
ZC Environmental Controls

The third, fourth, fifth and sixth characters of the six-character feature code are a numeric value from 0000 through 9999. This value provides unique feature identification within categories yet allows flexibility. All features shall be identified by all six alphanumeric characters (for example, the feature “Road” is represented by TA0060). The block of feature code values from 8000 through 8999 has been reserved for special usage, e.g. usage within a particular agency or a group of users.

Due to hierarchical nature of geology and soil features, the third, fourth, fifth and sixth characters (the first through fourth numeric) represent the level of hierarchy of the feature within a particular subcategory. The first numeric represents the first level, the second numeric represents the second level, the third numeric represents the third level, and so on, if they are non-zeros. The value of the numeric is the feature number within that particular level. Zero value of the numeric means that the level is undefined.

For other categories of features (other than geology and soil), the numeric simply represents feature number within a particular subcategory.

4.2.2 Attributes

Attributes are used to describe characteristics of a feature. Each attribute is described by using attribute codes to represent the category of information. Attribute value format statements provide a computer interpretation for the attribute value data type (e.g. real, alphanumeric) and attribute values give quantitative/qualitative meaning to the attribute code. An attribute can be used by any feature, but care must be taken so that only meaningful attributes are chosen for a particular feature. For example, syntactically, an attribute "Lift Facilities" can be used with feature "Rail Line", but semantically, the combination is useless. A list of possible attributes for each feature have been provided for the convenient of users.

4.2.2.1 Attribute codes

Each attribute is identified by a unique three character alphanumeric code. For example, the attribute "Road Service Area" has the code RDS and the attribute "Bridge Construction Material Type" has the code BMT.

4.2.2.2 Attribute values

There are two types of attribute values: coded and actual. A given attribute has only one type of value, which is specified in Annex B. Coded values may range from 0 to 999 and each of the value has its own meaning. Actual values are typically real measurements like height, width, date, etc. *Attribute values can be given as alpha, numeric or combination of alpha and numeric.* The units of measurement associated with an attribute are abbreviated according to the units of measurement codes as detailed in Annex B. A coded value attribute can be logically depicted as shown below:

Attribute Coded	Attribute Value Format	Attribute Value (coded in this case)
RDS	**I**	**2**

where

RDS represents Road Service Area;

I is the format of the coded value (in this case the format is that of a 4-byte integer); and

2 represents the coded value of the RUC attribute (in this case Rural).

For consistency and unless otherwise stated, the following coded values will be used where relevant:

~~0 is "Unknown"~~
996 is "None"
997 is "Mixed"
998 is "Not Applicable"
999 is "Others"

The block of coded attribute values from 600 through 899 has been reserved for special usage, e.g. usage within a particular agency or a group of users.

Actual value can have a format of either:

A	Alphanumeric,
I	Integer,
L	Lexical,
R	Real Number or
S	Structure Text.

For example, an Road (feature code TA0060) which has the route number "J23", has four lanes, and is dual carriageway, would be attributed as follows:

Attribute code	Attribute value format	Attribute value (actual)
RTN (Route Number)	A	J23
LAN (Number of Lane)	I	4
CWT (Carriageway Type)	I	2

4.2.2.3 Range value attributes

Normally attributes are single valued text strings, numbers or enumerated values. However, at times it is necessary to assign values that fall within predetermined ranges. This can be done through an enumerated list that pre-defined the permitted ranges. For example, an attribute for height may be defined as:

0	< 10
1	10 - <20
2	20 - <30
3	30 - <40
4	> 40

4.3 Rules for documenting new features and attributes

This standard should be used during the development of specifications of digital application systems to support and satisfy the exchange of spatial information. However, this standard can be modified and updated in response to dynamic technology and evolving requirements. If this standard does not contain the required features, the standard allows for amendment to incorporate extensions and additions.

This sub clause lists the rules that are used to document the features and attributes contained in Annexes A and B. All extensions and additions shall also follow these rules:

a) feature and attribute names should be precise and unambiguous;

b) attribute values should be self-describing;

c) a feature and attribute should not have the same name;

d) a feature or attribute can have multiple names but only one definition;

e) a feature or attribute name should not be used in the description of the feature or attributes;

f) a feature name or definition should not specify if the feature is an area, point or line feature;

g) a feature should be relatively permanent;

h) a feature should not be duplicated between categories;

i) all attribute values are positive unless otherwise stated;

j) a boundary is just a spatial object or information that be considered a line feature and not a perimeter or solid surface of an area or spatial feature; and

k) the systematic structure of the coding schema should be permanent.

The features and attributes in this standard represent both spatial information and information which is considered important in geographic information system. Care should be taken to restrict additions to this standard to items of a stable nature only. Users should, for the development of their feature and attribute requirements, seek inter-organisation co-operation and co-ordination.

INDEX:

Feature **Page**

List of features based on ascending alphabet

Annex A
(normative)

Feature Codes

A - AERONAUTICAL

Feature Code:	**A00000**
Feature Name:	Aeronautical
Description:	Contains geospatial information related to air transportation such as air space, aerodrome and airport
Feature Class:	Polygon, Point
Possible Attribute:	Name (NAM), Area Measured (km²) (ARK),

AA - Air Space

Feature Code:	**AA0010**
Feature Name:	Air Space
Description:	Designated airspace within which some or all aircraft may be subjected to air traffic control.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km²) (ARK), Airspace Identification Attribute (AIA), Air Space Category (ASC)

Feature Code:	**AA0020**
Feature Name:	Limited Activity Air Space
Description:	Air space where activities must be confined because of their nature and/or where limitations may be imposed upon aircraft operations.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km²) (ARK), Airspace Use Limitations (AUL)

Feature Code:	**AA0030**
Feature Name:	Navigation Aid
Description:	Any visual electronic device which provides point-to-point guidance information or position data.
Feature Class:	Point
Possible Attribute:	Name (NAM), Navigation Aid Type (NAT)

Feature Code:	**AA0040**
Feature Name:	Air Route
Description:	A specific route designated for channelling the flow of traffic as necessary for the provision of air traffic service.
Feature Class:	Line
Possible Attribute:	Name (NAM), Air Route Segments Length (ALN), Air Route Usage (ARU)

AB - Aerodrome

Feature Code:	**AB0010**
Feature Name:	Aerodrome
Description:	A defined area on land or water (including any buildings, installations and equipments) intended to be used either wholly or in part for the arrival, departure and surface movement of aircraft.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**AB0020**
Feature Name:	Airfield
Description:	A land aerodrome with limited facilities.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Airfield Type (APT)

Feature Code:	**AB0030**
Feature Name:	Aerodrome Control Tower
Description:	A high rise structure from where air traffic control service to aerodrome is provided.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0040**
Feature Name:	Aerodrome Beacon
Description:	A light, visible intermittently at all azimuths, used to indicate the location of an aerodrome from the air.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0050**
Feature Name:	Runway
Description:	A defined rectangular area on a land aerodrome prepared for the landing and take-off of aircraft.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Length (LEN)

Feature Code:	**AB0060**
Feature Name:	Runway Strip
Description:	A defined area including the runway and stopway, if provided, intended: a) To reduce the risk or damage to aircraft running off a runway and, b) To protect aircraft flying over it during take-off or landing operations.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Length (LEN)

Feature Code:	**AB0070**
Feature Name:	Stopway
Description:	A defined rectangular area at the end of a runway in the direction of take-off, which has been selected or prepared as a suitable area in which an aircraft can be stopped after an interrupted take-off.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**AB0080**
Feature Name:	Clearway
Description:	A rectangular area at the end of the take-off run, available, selected, or prepared as a suitable area over which an aircraft may make a portion of its initial climb to a specified height.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**AB0090**
Feature Name:	Approach Surface
Description:	A surface sloping up outwards located preceding threshold that defines the volume of upwards airspace that should be kept free from obstacles to protect aircraft in the final phase of approach.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Slope Gradient (SGR)

Feature Code:	**AB0100**
Feature Name:	Take-off Climb Surface
Description:	A surface sloping up outwards located beyond the end of the TORA or clearway that defines the volume of upwards airspace that should be kept free from obstacles to protect aircraft on take-off.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Slope Gradient (SGR)

Feature Code:	**AB0110**
Feature Name:	Transitional Surface
Description:	A surface around a runway strip sloping up outwards to the inner horizontal surface that defines the volume of upwards air space that should be kept free from obstacles to protect aircraft in their final phase of approach.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Slope Gradient (SGR), Width (WID)

Feature Code:	**AB0120**
Feature Name:	Inner Horizontal Surface
Description:	A horizontal surface around a runway strip above an aerodrome and its vicinity that defines the volume of upwards air space that should be kept free from obstacles to protect aircraft for visual circling prior to landing.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Z Orthometric (ZOR), Width (WID)

Feature Code:	**AB0130**
Feature Name:	Conical Surface
Description:	A surface sloping up outwards from the periphery of the inner horizontal surface that defines the volume of upwards air space that should be kept free from obstacles to protect aircraft for visual circling prior to landing.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Slope Gradient (SGR), Width (WID)

Feature Code:	**AB0140**
Feature Name:	Outer Horizontal Surface
Description:	A specified portion of a horizontal plane beyond the limit of the conical surface that defines the volume of upwards air space that should be kept free from obstacles to facilitate instrument approach procedures.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Z Orthometric (ZOR), Width (WID)

Feature Code:	**AB0150**
Feature Name:	Obstacle Free Zone (OFZ)
Description:	A volume of air space in the immediate vicinity of a precision approach runways defined by the inner approach, inner transitional and balked landing surfaces, which must be kept free from fixed objects.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**AB0160**
Feature Name:	Threshold
Description:	The beginning of that portion of the runway usable for landing.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**AB0170**
Feature Name:	Holding Point
Description:	A location on the manoeuvring area of an aerodrome at which an aircraft carries out an engine run-up or is held before entering a runway for take-off.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0180**
Feature Name:	Taxiway
Description:	A defined path on a land aerodrome established for the taxiing of aircraft and intended to provide a link between one part of the aerodrome and another.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**AB0190**
Feature Name:	Aircraft Parking Area
Description:	A specially prepared or selected part of an aerodrome within which aircraft may be parked.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**AB0200**
Feature Name:	Apron
Description:	A define area on a land aerodrome, intended to accommodate aircraft for purposes of loading or unloading passengers, mail or cargo, and for fuelling, parking or maintenance.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**AB0210**
Feature Name:	Localiser
Description:	A device on the ground that provides azimuth guidance to a runway (runway centre line) to an approaching aircraft.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0220**
Feature Name:	Glideslope
Description:	A device on the ground that provides landing slope to an approaching aircraft.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0230**
Feature Name:	Radar
Description:	A radio detection device on the ground which provides information on range, azimuth and/or elevation of aircraft.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0240**
Feature Name:	Landing Directional Indicator
Description:	A device to indicate visually the direction currently designated for landing and take-off.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0250**
Feature Name:	Wind Direction Indicator
Description:	A visual device used to provide wind information.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0260**
Feature Name:	Obstacle
Description:	All fixed (whether temporary or permanent) and mobile objects, or part thereof, that are located on an area intended for the surface movement of aircraft or that extend above a defined surface intended to protect aircraft in flight.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0270**
Feature Name:	Obstruction Light
Description:	Lights mounted on or adjacent to obstructions or potential hazards to aircraft moving on the ground or in the navigable airspace, for the purpose of indicating the aircraft by night.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0280**
Feature Name:	Obstruction Marker
Description:	Markers on or adjacent to obstructions or potential hazards to aircraft moving on the ground or in the navigable airspace, for the purpose of indicating the aircraft by day.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**AB0290**
Feature Name:	Aeronautical Ground Light
Description:	Any light specially provided as an aid to air navigation, other than a light displayed on an aircraft.
Feature Class:	Point
Possible Attribute:	Name (NAM), Light Characteristic Category (LCC)

Feature Code:	**AB0300**
Feature Name:	Helicopter Landing Site
Description:	A place that is authorised to be used as an aerodrome for the purpose of the landing and taking-off of helicopter.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Landing Base Type (LBT)

Feature Code:	**AB0310**
Feature Name:	Final Approach and Take-off Area
Description:	An area of land or water associated with a helicopter-landing site, over which the final phase of the approach maneuver to hover or landing is completed and from which the take-off maneuver is commenced.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**AB0320**
Feature Name:	Touchdown and Lift Off Area
Description:	A load bearing area on which a helicopter may touch down or lift off.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

B - BUILT ENVIRONMENT

Feature Code:	**B00000**
Feature Name:	Built Environment
Description:	An area contains building, property or place designated for use as premises For residential, commercial, industrial, institutional, educational, religious, recreational, cemetery and built up structures.
Feature Class:	Polygon, Point
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM),

BA - Residential

Feature Code:	**BA0010**
Feature Name:	Residential Building
Description:	Building or property designated for use as premises for dwelling units or home.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Building Name (BA1), Building Number (BA2), Street Name (BA3), Post Code (BA4), State Name (BA5), Residential Building Type (RET), Number of Storey (NOS), Lift Facilities (LIF), Residential Usage (REU)

BB - Commercial

Feature Code:	**BB0010**
Feature Name:	Commercial Building
Description:	Building or property designated for use as premises for business related activities such as trading and services.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Building Name (BA1), Building Number (BA2), Street Name (BA3), Post Code (BA4), State Name (BA5), Commercial Building Type (CBT), Number of Storey (NOS), Lift Facilities (LIF), Commercial Building Usage (CBU)

Feature Code:	**BB0011**
Feature Name:	Bank
Description:	A financial institution and a financial intermediary that accepts deposits and channels those deposits into lending activities, either directly by loaning or indirectly through capital markets.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Building Name (BA1), Building Number (BA2), Street Name (BA3), Post Code (BA4), State Name (BA5), Commercial Building Type (CBT), Number of Storey (NOS), Lift Facilities (LIF), Commercial Building Usage (CBU)

Feature Code:	**BB0012**
Feature Name:	Post Office
Description:	a building or an office where mail is received, sorted, and delivered, stamps and other postal materials are sold and other postal business is conducted
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Building Name (BA1), Building Number (BA2), Street Name (BA3), Post Code (BA4), State Name (BA5), Commercial Building Type (CBT), Number of Storey (NOS), Lift Facilities (LIF), Commercial Building Usage (CBU)

Feature Code:	**BB0020**
Feature Name:	Billboard
Description:	A huge structure used for advertising panels
Feature Class:	Point
Possible Attribute:	Name (NAM), Billboard Structure (BBS),Billboard Size (BSZ), Registered Number (RNO), Project or Company Name (PRJ)

BC - Industrial

Feature Code:	**BC0010**
Feature Name:	Industrial Building
Description:	Building or property designated for use as premises for manufacturing and processing related industry, repairing, servicing activities, foundries and warehousing/storage.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Building Name (BA1), Building Number (BA2), Street Name (BA3), Post Code (BA4), State Name (BA5), Industrial Building Type (IDT), Number of Storey (NOS), Lift Facilities (LIF), Category of Industry (IDC), Industry Permit Status (IDL), Industrial Planned Category (IDP), Industry Tax Status (IDS), Industrial Usage (IDU)

BD - Institutional

Feature Code:	**BD0010**
Feature Name:	Institutional Building
Description:	Building or premises designated specifically for use by government and its agencies, foreign embassies and other public purposes.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Building Name (BA1), Building Number (BA2), Street Name (BA3), Post Code (BA4), State Name (BA5), Institutional Building Type (INT), Institutional Usage (INU), Number of Storey (NOS), Lift Facilities (LIF), Institutional Category (INC)

Feature Code:	**BD0011**
Feature Name:	Hospital
Description:	An institution that provides medical, surgical, or psychiatric care and treatment for the sick or the injured.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Building Name (BA1), Building Number (BA2), Street Name (BA3), Post Code (BA4), State Name (BA5), Institutional Building Type (INT), Institutional Usage (INU), Number of Storey (NOS), Lift Facilities (LIF), Institutional Category (INC)

Feature Code:	**BD0012**
Feature Name:	Police Station
Description:	A station that serves as headquarters for police in a particular district
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Building Name (BA1), Building Number (BA2), Street Name (BA3), Post Code (BA4), State Name (BA5), Institutional Building Type (INT), Institutional Usage (INU), Number of Storey (NOS), Lift Facilities (LIF), Institutional Category (INC)

Feature Code:	**BD0013**
Feature Name:	Fire and Rescue Station
Description:	A building or department in which the members of a fire department and the equipment used to put out fires are located.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Building Name (BA1), Building Number (BA2), Street Name (BA3), Post Code (BA4), State Name (BA5), Institutional Building Type (INT), Institutional Usage (INU), Number of Storey (NOS), Lift Facilities (LIF), Institutional Category (INC)

BE - Educational

Feature Code:	**BE0010**
Feature Name:	Educational Building
Description:	Building or premises designated for education-related activities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Building Name (BA1), Building Number (BA2), Street Name (BA3), Post Code (BA4), State Name (BA5), Educational Building Type (EDT), Number of Storey (NOS), Educational Category (EDC), Educational Level (EDL), Educational Stream (EDS), Educational Boarding Facilities (EDB)

BF - Religious

Feature Code:	**BF0010**
Feature Name:	Building of Worship
Description:	A building or premises used as a place of worship, religious talks and other related activities
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Religious Building Usage (RBU)

BG - Recreational

Feature Code:	**BG0010**
Feature Name:	Stadium
Description:	An enclosed large open or closed roofed concrete building or premises with seats in tiers specifically built as a sports arena.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**BG0020**
Feature Name:	Sport Complex
Description:	An area comprising more than one building or premises specifically built to be used for various sports purposes.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BG0030**
Feature Name:	Swimming Complex
Description:	An enclosed area comprising a few swimming pools including training and wading pools.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BG0040**
Feature Name:	Swimming Pool
Description:	An opened area comprising a few swimming pools including training and wading pools.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BG0050**
Feature Name:	Velodrome
Description:	An enclosed large open-roofed concrete building specifically built with walls slanting at a 45° and laid with certain graded wood for cycling competitions.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BG0060**
Feature Name:	Play Ground
Description:	An open turf premises used for recreational purposes and provided with game facilities for children.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Playground Services (PGS)

Feature Code:	**BG0070**
Feature Name:	Golf Course
Description:	A man-made landscaped open premises specifically built for playing golf.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BG0080**
Feature Name:	Polo Field
Description:	An area or premises for recreational activities of the polo sports fraternity.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BG0090**
Feature Name:	Park
Description:	A natural or man-made open area or ground equipped with leisure and recreational facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BG0100**
Feature Name:	Theme Park
Description:	A man-made recreational area or premises designed for sports and leisure activities based on a theme concept.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**BG0110**
Feature Name:	Racing Circuit
Description:	A premise specifically designed and built for motor racing pursuits and competitions.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**BG0120**
Feature Name:	Race Course
Description:	A premise specifically designed and built for horse racing pursuits and competitions.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**BG0130**
Feature Name:	Golf Driving Range
Description:	A premise specifically designed and built with driving range for golf training.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**BG0140**
Feature Name:	Zoo
Description:	An area with a collection of live animals usually for public display.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**BG0150**
Feature Name:	Firing Line
Description:	Line of fire for shooting practice or competition.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**BG0151**
Feature Name:	Firing Target
Description:	Target board for shooting practice or competition.
Feature Class:	Point
Possible Attribute:	Name (NAM),

BH - Cemetery

Feature Code:	**BH0010**
Feature Name:	Cemetery
Description:	A place for the burial of the dead.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), ~~Religious Cemetery Type~~ Religious Burial Ground Type (RCT)

Feature Code:	**BH0020**
Feature Name:	Crematorium
Description:	A building or premises used for cremating bodies of the deceased and where the ashes are collected.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BH0030**
Feature Name:	Memorial Park Cemetery
Description:	A burial site designed and landscaped as a cemetery cum recreational park and operated on a commercial basis.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**BH0040**
Feature Name:	Columbarium
Description:	A building or premises to house the ashes of the deceased which are kept in urns.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

BJ - Built-Up

Feature Code:	**BJ0010**
Feature Name:	Taxi Terminal
Description:	The end point of taxi routes including taxi parking area, administrative building and passenger facilities.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BJ0020**
Feature Name:	Bus Terminal
Description:	The end point of bus routes including bus parking area, administrative building and passenger facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code	**BJ0021**
Feature Name	Bus Stop
Description	A place where the buses load and unload passengers
Feature Class	Polygon, Point
Possible Attribute	Name (NAM), Area Measured (m2) (ARM), Custodian (CUS), Date (DAT), Status (STA), Route Number (RTN), Section Number (SEC), Project Name (PRJ), Bus Stop Material Type (BMA), Small Variable Message System Type (SVM)

Feature Code:	**BJ0030**
Feature Name:	Rail Terminal
Description:	The end point of rail routes including administrative building and other facilities.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Rail Usage (RTU)

Feature Code:	**BJ0040**
Feature Name:	Integrated Transportation Terminal
Description:	The end point of transportation routes including parking area, administrative building and passenger facilities.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Rail Usage (RTU)

Feature Code:	**BJ0050**
Feature Name:	Bus Depot
Description:	An area designated for repairs and maintenance of buses.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BJ0060**
Feature Name:	Rail Depot
Description:	An area designated for repairs and maintenance of trains.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Rail Usage (RTU)

Feature Code:	**BJ0070**
Feature Name:	Freight Depot
Description:	An area designated for receiving, storing and re-distributing of freight.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BJ0080**
Feature Name:	Jetty Terminal
Description:	A jetty including its supporting structures and facilities for loading and unloading of cargo or passengers.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Jetty Category (JYC)

Feature Code:	**BJ0090**
Feature Name:	Power Station Complex
Description:	A power station including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Power Station Type (PST)

Feature Code:	**BJ0100**
Feature Name:	Substation Complex
Description:	A substation including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Substation Category (SSC)

Feature Code:	**BJ0110**
Feature Name:	Reservoir Complex
Description:	A reservoir including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Reservoir Type (RVT) Custodian (CUS)

Feature Code:	**BJ0120**
Feature Name:	Water Treatment Plant Complex
Description:	A water treatment plant including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM),

Feature Code:	**BJ0130**
Feature Name:	Water Intake Complex
Description:	A water intake including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**BJ0140**
Feature Name:	Pump House Complex
Description:	A pump house including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Water Pump Category (WPC), Water Pump Type (WPT), Custodian (CUS), Pump House Usage (PHU)

Feature Code:	**BJ0150**
Feature Name:	Tank Complex
Description:	A tank including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Tank Type (TAT), Tank Usage (TAU)

Feature Code:	**BJ0160**
Feature Name:	Earth Satellite Complex
Description:	An earth satellite receiving station including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**BJ0170**
Feature Name:	VSAT Station Complex
Description:	A VSAT station including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**BJ0180**
Feature Name:	Cellular Radio Base Station Complex
Description:	A cellular radio base station including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **BJ0190**
Feature Name: Exchange Building Complex
Description: An exchange building including its supporting structures and facilities.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

Feature Code: **BJ0200**
Feature Name: Hill Station Complex
Description: A hill station including its supporting structures and facilities.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

Feature Code: **BJ0210**
Feature Name: Radio Station Complex
Description: A radio station including its supporting structures and facilities.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

Feature Code: **BJ0220**
Feature Name: Antenna Tower Complex
Description: An antenna tower including its supporting structures and facilities.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

Feature Code: **BJ0230**
Feature Name: Telecom Tower Complex
Description: A telecom tower including its supporting structures and facilities.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

Feature Code: **BJ0240**
Feature Name: Bin Point Complex
Description: A bin point including its supporting structures and facilities.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

Feature Code: **BJ0250**
Feature Name: Transfer Station Complex
Description: A transfer station including its supporting structures and facilities.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM), Waste Type (WAT)

Feature Code: **BJ0260**
Feature Name: Secured Landfill Complex
Description: A secured landfill including its supporting structures and facilities.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM), Waste Type (WAT)

Feature Code: **BJ0270**
Feature Name: Waste Treatment Plant Complex
Description: A waste treatment plant including its supporting structures and facilities.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM), Waste Type (WAT)

Feature Code:	**BJ0280**
Feature Name:	Incineration Plant Complex
Description:	An incineration plant including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Waste Type (WAT)

Feature Code:	**BJ0290**
Feature Name:	Sewerage Treatment Plant Complex
Description:	A sewerage treatment plant including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Sewerage Treatment Plant Type (STT)

Feature Code:	**BJ0300**
Feature Name:	Sewerage Pump Station Complex
Description:	A sewerage pump station including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BJ0310**
Feature Name:	Pond Complex
Description:	A pond including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Pond Type (POT), Custodian (CUS), Pond Complex Usage (PCU)

Feature Code:	**BJ0320**
Feature Name:	City Gate Station Complex
Description:	A city gate station including its supporting structures and facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BJ0330**
Feature Name:	Petrol Station
Description:	An area designated for filling of petrol.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BJ0340**
Feature Name:	Residential Complex
Description:	An area consisting of one or more residential buildings and other supporting features.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BJ0350**
Feature Name:	Industrial Complex
Description:	An area consisting of one or more industrial buildings and other supporting features.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**BJ0360**
Feature Name:	Commercial Complex
Description:	An area consisting of one or more commercial buildings and other supporting features.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**BJ0370**
Feature Name:	Parking Area
Description:	A designated area for parking of vehicles.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Parking Area Type (PAT)

Feature Code:	**BJ0380**
Feature Name:	Historical Site
Description:	Site or area declared to be of historical or heritage significance.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Historical Site Category (HSC)

Feature Code:	**BJ0390**
Feature Name:	Wall
Description:	An upright structure made of stone or brick, that divides one area from another or surrounds an area
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**BJ0400**
Feature Name:	Fence
Description:	A structure that surrounds an area
Feature Class:	Line
Possible Attribute:	Name (NAM), Fence Type (FET), Fence Material (FEM)

Feature Code:	**BJ0410**
Feature Name:	Trench
Description:	Channel used for certain purposes
Feature Class:	Line
Possible Attribute:	Name (NAM), Trench Type (TRT), Trench Usage (TRU)

Feature Code	**BJ0420**
Feature Name	Conduit
Description	Casing buried under the ground or otherwise which is used to place an easily damaged and/or obstructive utilities.
Feature Class	Line
Possible Attribute	Name (NAM)

Feature Code	**BJ0430**
Feature Name	Centralized Air Conditioning Building
Description	A building to locate all the centralizing air conditioning units like a compressor, condenser, throttling valve and the evaporator
Feature Class	Polygon, point
Possible Attribute	Name (NAM), Area Measured (m^2) (ARM),

Feature Code	**BJ0440**
Feature Name	Guard House
Description	A guard house is a building used to house personnel and security equipment
Feature Class	Polygon, point
Possible Attribute	Name (NAM), Area Measured (m²) (ARM)

D - DEMARCATION

DA - Topographic (Boundaries/Limits/Zones)

Feature Code:	**DA0010**
Feature Name:	International or Country Boundary
Description:	A line defining the limit of a country.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT), Boundary Status (BDS)

Feature Code:	**DA0020**
Feature Name:	Country Coverage
Description:	An area of land that falls within an international or country boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km²) (ARK)

Feature Code:	**DA0030**
Feature Name:	State Boundary
Description:	A line defining the limit of a state or federal territory.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT), Boundary Status (BDS)

Feature Code:	**DA0040**
Feature Name:	State Coverage
Description:	An area of land that falls within a state boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km²) (ARK)

Feature Code:	**DA0050**
Feature Name:	Division Boundary
Description:	A line defining the limit of a division.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0060**
Feature Name:	Division Coverage
Description:	An area of land that falls within a division boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km²) (ARK)

Feature Code:	**DA0070**
Feature Name:	District or Jajahan Boundary Administrative
Description:	A line defining the limit of a district or jajahan for administrative purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0075**
Feature Name:	District or Jajahan Boundary Land
Description:	A line defining the limit of a district or jajahan for land management purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0080**
Feature Name:	District or Jajahan Coverage Administrative
Description:	An area of land that falls within a district or jajahan boundary for administrative purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km^2) (ARK)

Feature Code:	**DA0085**
Feature Name:	District or Jajahan Coverage Land
Description:	An area of land that falls within a district or jajahan boundary for land management purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km^2) (ARK)

Feature Code:	**DA0086**
Feature Name:	Sub-district Boundary Administrative
Description:	A line defining the limit of a sub-district for administrative purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0087**
Feature Name:	Sub-district Boundary Land
Description:	A line defining the limit of a sub-district for land management purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0088**
Feature Name:	Sub-district Coverage Administrative
Description:	An area of land that falls within a sub-district boundary for administrative purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km^2) (ARK)

Feature Code:	**DA0089**
Feature Name:	Sub-district Coverage Land
Description:	An area of land that falls within a sub-district boundary for land management purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km^2) (ARK)

Feature Code:	**DA0090**
Feature Name:	Mukim Boundary Administrative
Description:	A line defining the limit of a mukim for administrative purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0095**
Feature Name:	Mukim Boundary Land
Description:	A line defining the limit of a mukim for land management purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0100**
Feature Name:	Mukim Coverage Administrative
Description:	An area of land that falls within a mukim boundary for administrative purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km^2) (ARK)

Feature Code:	**DA0105**
Feature Name:	Mukim Coverage Land
Description:	An area of land that falls within a mukim boundary for land management purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km^2) (ARK)

Feature Code:	**DA0110**
Feature Name:	Town Boundary Administrative
Description:	A line defining the limit of a town for administrative purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0115**
Feature Name:	Town Boundary Land
Description:	A line defining the limit of a town for land management purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0120**
Feature Name:	Town Coverage Administrative
Description:	An area of land that falls within a town boundary for administrative purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km^2) (ARK)

Feature Code:	**DA0125**
Feature Name:	Town Coverage Land
Description:	An area of land that falls within a town boundary for land management purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km^2) (ARK)

Feature Code:	**DA0130**
Feature Name:	Pekan Boundary Administrative
Description:	A line defining the limit of a pekan for administrative purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0135**
Feature Name:	Pekan Boundary Land
Description:	A line defining the limit of a pekan for land management purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0140**
Feature Name:	Pekan Coverage Administrative
Description:	An area of land that falls within a pekan boundary for administrative purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km²) (ARK)

Feature Code:	**DA0145**
Feature Name:	Pekan Coverage Land
Description:	An area of land that falls within a pekan boundary for land management purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km²) (ARK)

Feature Code:	**DA0150**
Feature Name:	Kampung Boundary Administrative
Description:	A line defining the limit of a kampong for administrative purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0155**
Feature Name:	Kampung Boundary Land
Description:	A line defining the limit of a kampung for land management purpose.
Feature Class:	Line
Possible Attribute:	Name (NAM), Boundary Type (BDT)

Feature Code:	**DA0160**
Feature Name:	Kampung Coverage Administrative
Description:	An area of land that falls within a kampung boundary for administrative purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km²) (ARK), Kampung Coverage Type (KCT)

Feature Code:	**DA0165**
Feature Name:	Kampung Coverage Land
Description:	An area of land that falls within a kampung boundary for land management purpose.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (km²) (ARK)

Feature Code: **DA0170**
Feature Name: Section Boundary Administrative
Description: A line defining the limit of a section for administrative purpose.
Feature Class: Line
Possible Attribute: Name (NAM), Boundary Type (BDT)

Feature Code: **DA0175**
Feature Name: Section Boundary Land
Description: A line defining the limit of a section for land management purpose.
Feature Class: Line
Possible Attribute: Name (NAM), Boundary Type (BDT)

Feature Code: **DA0180**
Feature Name: Section Coverage Administrative
Description: An area of land that falls within a section boundary for administrative purpose.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km^2) (ARK)

Feature Code: **DA0185**
Feature Name: Section Coverage Land
Description: An area of land that falls within a section boundary for land management purpose.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km^2) (ARK)

Feature Code: **DA0190**
Feature Name: Precinct Boundary
Description: A line defining the limit of a precinct.
Feature Class: Line
Possible Attribute: Name (NAM), Boundary Type (BDT)

Feature Code: **DA0200**
Feature Name: Precinct Coverage
Description: An area of land that falls within a precinct boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0210**
Feature Name: Local Authority Boundary
Description: A line defining the limit of a local authority area.
Feature Class: Line
Possible Attribute: Name (NAM), Boundary Type (BDT)

Feature Code: **DA0220**
Feature Name: Local Authority Area
Description: An area of land that falls within a local authority boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0230**
Feature Name: Housing Estate Boundary
Description: A line defining the limit of a housing estate.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0240**
Feature Name: Housing Estate
Description: An area of land that falls within a housing estate boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0250**
Feature Name: Census Enumeration Block Boundary
Description: A line gazetted as the limit of a census enumeration block.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0260**
Feature Name: Census Enumeration Block
Description: An area of land that falls within a census enumeration block boundary.
Feature Class: Polygon, Point
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0270**
Feature Name: Parliamentary Electoral Boundary
Description: A line gazetted as the limit of a parliamentary electoral area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0280**
Feature Name: Parliamentary Electoral Area
Description: An area of land that falls within a parliamentary electoral boundary.
Feature Class: Polygon,
Possible Attribute: Name (NAM), Area Measured (km^2) (ARK)

Feature Code: **DA0290**
Feature Name: State Electoral Boundary
Description: A line gazetted as the limit of a state electoral area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0300**
Feature Name: State Electoral Area
Description: An area of land that falls within a state electoral boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km^2) (ARK)

Feature Code: **DA0310**
Feature Name: Postcode Boundary
Description: A line defining the limit of a postcode area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0320**
Feature Name: Postcode Area
Description: An area of land that falls within a postcode boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km^2) (ARK)

Feature Code: **DA0330**
Feature Name: Police District Boundary
Description: A line defining the limit of a police district.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0340**
Feature Name: Police District Area
Description: An area of land that falls within a police district boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km²) (ARK)

Feature Code: **DA0350**
Feature Name: Fire and Rescue Station Boundary
Description: A line defining the limit of a fire and rescue service station.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0360**
Feature Name: Fire and Rescue Station Area
Description: An area of land that falls within a fire and rescue station boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km²) (ARK)

Feature Code: **DA0370**
Feature Name: Medical Emergency Station Boundary
Description: A line defining the limit of a medical emergency station.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0380**
Feature Name: Medical Emergency Station Area
Description: An area of land that falls within a medical emergency station boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km²) (ARK)

Feature Code: **DA0390**
Feature Name: Agriculture Land Scheme Boundary
Description: A line defining the limit of an agricultural land scheme.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0400**
Feature Name: Agriculture Land Scheme Area
Description: An area of land that falls within an agricultural land scheme boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0410**
Feature Name: Trigonometrical Station Boundary
Description: A line defining the limit of a trigonometrical station area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code:	**DA0420**
Feature Name:	Trigonometrical Station Area
Description:	An area of land that falls within a trigonometrical station boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**DA0430**
Feature Name:	Irrigation Scheme Boundary
Description:	A line either gazetted or not, defining the limit of an irrigation scheme.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0440**
Feature Name:	Irrigation Scheme Area
Description:	An area of land either gazetted or not, that falls within an irrigation scheme boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Irrigation Scheme Category (IGC), Irrigation Scheme Type (IGT)

Feature Code:	**DA0450**
Feature Name:	Animal Husbandry Boundary
Description:	A line defining the limit of an animal husbandry area.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0460**
Feature Name:	Animal Husbandry Area
Description:	An area of land that falls within an animal husbandry boundary.
Feature Class:	Polygon, Point
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**DA0470**
Feature Name:	Transmission Line ROW Boundary
Description:	A line defining the limit of a transmission line ROW.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0480**
Feature Name:	Transmission Line ROW Area
Description:	An area of land that falls within a transmission line ROW boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Power Line Category (PLA), Power Line Characteristics (PLC), Voltage (VLT)

Feature Code:	**DA0510**
Feature Name:	Drainage Reserve Boundary
Description:	A line gazetted as the limit of a drainage reserve.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0515**
Feature Name:	Agricultural Drainage Reserve Boundary
Description:	A line gazetted as the limit of a drainage reserve where agricultural drainage infrastructures has been provided.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0520**
Feature Name:	Drainage Reserve Area
Description:	An area of land that falls within a drainage reserve boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Authority (AUT)

Feature Code:	**DA0525**
Feature Name:	Agricultural Drainage Reserve Area
Description:	An area of land that falls within a drainage reserve boundary where agricultural drainage infrastructures has been provided.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Authority (AUT)

Feature Code:	**DA0530**
Feature Name:	Park Reserve Boundary
Description:	A line gazetted as the limit of a park reserve.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0540**
Feature Name:	Park Reserve Area
Description:	An area of land, marine, estuarine, or freshwater that falls within a park reserve boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**DA0550**
Feature Name:	Grazing Reserve Boundary
Description:	A line gazetted as the limit of a grazing reserve.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0560**
Feature Name:	Grazing Reserve Area
Description:	An area of land that falls within a grazing reserve boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**DA0570**
Feature Name:	Forest Reserve Boundary
Description:	A line gazetted as the limit of a forest reserve.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0580**
Feature Name:	Forest Reserve Area
Description:	An area of land that falls within a forest reserve boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0590**
Feature Name: Water Catchment Reserve Boundary
Description: A line gazetted as the limit a water catchment reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0600**
Feature Name: Water Catchment Reserve Area
Description: An area of land that falls within a water catchment reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0610**
Feature Name: Wildlife Reserve Boundary
Description: A line gazetted as the limit a wildlife reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0620**
Feature Name: Wildlife Reserve Area
Description: An area of land that falls within a wildlife reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0630**
Feature Name: Game Reserve Boundary
Description: A line gazetted as the limit of a game reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0640**
Feature Name: Game Reserve Area
Description: An area of land that falls within a game reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **DA0650**
Feature Name: Sanctuary Reserve Boundary
Description: A line defining the limit of a sanctuary reserve.
Feature Class: Line
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0660**
Feature Name: Sanctuary Reserve
Description: An area of land that falls within a sanctuary reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0670**
Feature Name: Agriculture Reserve Boundary
Description: A line gazetted as the limit of an agricultural reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0680**
Feature Name: Agriculture Reserve Area
Description: An area of land that falls within an agricultural reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0690**
Feature Name: Aquaculture Reserve Boundary
Description: A line gazetted as the limit of an aquaculture reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0700**
Feature Name: Aquaculture Reserve Area
Description: An area of land that falls within an aquaculture reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0710**
Feature Name: Malay Reserve Boundary
Description: A line gazetted as the limit of a Malay reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0720**
Feature Name: Malay Reserve Area
Description: An area of land that falls within a Malay reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0730**
Feature Name: Government Reserve Boundary
Description: A line gazetted as the limit of a government reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0740**
Feature Name: Government Reserve Area
Description: An area of land that falls within a government reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA0750**
Feature Name: Firing Range Reserve Boundary
Description: A line gazetted as the limit of a firing range reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0760**
Feature Name: Firing Range Reserve Area
Description: An area of land that falls within a firing range reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code:	**DA0770**
Feature Name:	Road Reserve Boundary
Description:	A line gazetted as the limit of a road reserve.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0780**
Feature Name:	Road Reserve Area
Description:	An area of land that falls within a road reserve boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**DA0790**
Feature Name:	Rail Reserve Boundary
Description:	A line gazetted as the limit of a rail reserve.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0800**
Feature Name:	Rail Reserve Area
Description:	An area of land that falls within a rail reserve boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Rail Usage (RTU)

Feature Code:	**DA0810**
Feature Name:	Oil and Gas Pipeline Reserve Boundary
Description:	A line gazetted as the limit of an oil and gas pipeline reserve.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA0820**
Feature Name:	Oil and Gas Pipeline Reserve Area
Description:	An area of land that falls within an oil and gas pipeline reserve boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**DA0830**
Feature Name:	Irrigation Reserve Boundary
Description:	A line gazetted as the limit of an irrigation reserve where irrigation infrastructures have been provided.
Feature Class:	Line
Possible Attribute:	Name (NAM

Feature Code:	**DA0840**
Feature Name:	Irrigation Reserve Area
Description:	An area of land that falls within an irrigation reserve where irrigation infrastructures have been provided.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Irrigation Scheme Category (IGC), Irrigation Scheme Type (IGT)

Feature Code: **DA0850**
Feature Name: River Reserve Boundary
Description: A line gazetted as the limit of a river reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0860**
Feature Name: River Reserve Area
Description: An area of land that falls within a river reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **DA0870**
Feature Name: Aborigine Reserve Boundary
Description: A line gazetted as the limit of an aborigine reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0880**
Feature Name: Aborigine Reserve Area
Description: An area of land that falls within an aborigine reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **DA0890**
Feature Name: Royal Reserve Boundary
Description: A line gazetted as the limit of a royal reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0900**
Feature Name: Royal Reserve Area
Description: An area of land that falls within a royal reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **DA0910**
Feature Name: Cemetery Reserve Boundary
Description: A line gazetted as the limit of a cemetery reserve.
Feature Class: Line
Possible Attribute: Name (NAM), Religious Burial Ground Type (RCT)

Feature Code: **DA0920**
Feature Name: Cemetery Reserve Area
Description: An area of land that falls within a cemetery reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM), Religious Burial Ground Type (RCT)

Feature Code: **DA0930**
Feature Name: Clinic Reserve Boundary
Description: A line gazetted as the limit of a clinic reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0940**
Feature Name: Clinic Reserve Area
Description: An area of land that falls within a clinic reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM), Clinic Service Type (SCT)

Feature Code: **DA0950**
Feature Name: Hospital Reserve Boundary
Description: A line gazetted as the limit of a hospital reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0960**
Feature Name: Hospital Reserve Area
Description: An area of land that falls within a hospital reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

Feature Code: **DA0970**
Feature Name: School Reserve Boundary
Description: A line gazetted as the limit of a school reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA0980**
Feature Name: School Reserve Area
Description: An area of land that falls within a school reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

Feature Code: **DA0990**
Feature Name: Army Reserve Boundary
Description: A line gazetted as the limit of an army reserve.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA1000**
Feature Name: Army Reserve Area
Description: An area of land that falls within an army reserve boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM)

Feature Code: **DA1010**
Feature Name: Reserve Land Boundary
Description: A line gazetted as the limit of a Sarawak Reserve Land area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA1020**
Feature Name: Sarawak Reserve Land Area
Description: An area of land that falls within a reserve land boundary in Sarawak.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km²) (ARK)

Feature Code:	**DA1030**
Feature Name:	Mixed Zone Land Boundary
Description:	A line gazetted as the limit of a Sarawak Mixed Zone Land area.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA1040**
Feature Name:	Mixed Zone Land Area
Description:	An area of land that falls within a mixed zone land boundary in Sarawak.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**DA1050**
Feature Name:	Native Land Boundary
Description:	A line gazetted as the limit of a native land in Sarawak, Sabah and Labuan.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA1060**
Feature Name:	Native Land Area
Description:	An area of land that falls within a native land boundary in Sarawak, Sabah and Labuan.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**DA1070**
Feature Name:	Native Customary Land Boundary
Description:	A line gazetted as the limit of a Sarawak Native Customary Land area.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA1080**
Feature Name:	Native Customary Land Area
Description:	An area of land that falls within a native customary land boundary in Sarawak.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**DA1090**
Feature Name:	Interior Land Boundary
Description:	A line gazetted as the limit of an Interior Land area.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DA1100**
Feature Name:	Interior Land Area
Description:	An area of land that falls within an interior land boundary.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code: **DA1110**
Feature Name: Sarawak Town Land Boundary
Description: A line defining the limit of a Sarawak Town Land area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA1120**
Feature Name: Sarawak Town Land Area
Description: An area of land that falls within a Sarawak Town Land boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km²) (ARK)

Feature Code: **DA1130**
Feature Name: Sarawak Suburban Land Boundary
Description: A line defining the limit of a Sarawak Suburban Land area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA1140**
Feature Name: Sarawak Suburban Land Area
Description: An area of land that falls within a Sarawak Suburban Land boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km²) (ARK)

Feature Code: **DA1150**
Feature Name: Sarawak Country Land Boundary
Description: A line defining the limit of a Sarawak Country Land area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA1160**
Feature Name: Sarawak Country Land Area
Description: An area of land that falls within a Sarawak Country Land boundary.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km²) (ARK)

Feature Code: **DA1170**
Feature Name: Native Timber Reserve Boundary
Description: A line gazetted as the limit of a native timber reserve under the Sabah state legislation.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DA1180**
Feature Name: Native Timber Reserve Area
Description: An area of land that falls within a native timber reserve boundary under the Sabah state legislation.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (km²) (ARK)

Feature Code:	**DA2000**
Feature Name:	Aquaculture
Description:	An area where the land is subjected for aquaculture
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Aquaculture Type (AQP)

Feature Code:	**DA3000**
Feature Name:	Livestock
Description:	An area where the land is subjected for Livestock
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Animal Type (ANP)

DB - Maritime

Feature Code:	**DB0010**
Feature Name:	Baseline
Description:	A line from which the outer limits of a territorial sea and certain other outer limits are measured.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DB0020**
Feature Name:	Continental Shelf Boundary
Description:	A line defining the limit of a continental shelf.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DB0030**
Feature Name:	Continental Shelf
Description:	The continental shelf of a coastal state (country) comprises the sea-bed and subsoil of the submarine areas that extend beyond its territorial sea throughout the natural prolongation of its land territory to the outer edge of the continental shelf margin, or to a distance of 200 nautical miles from the baselines where the outer edge of the continental margin does not extend up to that distance.
Feature Class:	Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**DB0040**
Feature Name:	Exclusive Economic Zone Boundary
Description:	A line defining the limit of an Exclusive Economic Zone.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DB0050**
Feature Name:	Exclusive Economic Zone
Description:	An area beyond and adjacent to the territorial sea not exceeding 200 nautical miles from the baseline under which a coastal state (country) has certain right and jurisdiction.
Feature Class:	Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**DB0060**
Feature Name:	Contiguous Zone Boundary
Description:	A line defining the limit of a contiguous zone.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DB0070**
Feature Name:	Contiguous Zone
Description:	A zone not exceeding 24 nautical miles from the baseline where the coastal state (country) may exercise certain controls.
Feature Class:	Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**DB0080**
Feature Name:	Territorial Water Boundary
Description:	A line defining a territorial water.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DB0090**
Feature Name:	Territorial Water
Description:	A belt of water of a defined breadth but not exceeding 12 nautical miles measured seaward from a territorial sea baseline.
Feature Class:	Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**DB0100**
Feature Name:	State Territorial Water Boundary
Description:	A line defining the limit of a state territorial water.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DB0110**
Feature Name:	State Territorial Water
Description:	A belt of water of a defined breadth but not exceeding 3 nautical miles measured seaward from a territorial sea baseline where the adjacent state has exclusive rights.
Feature Class:	Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**DB0120**
Feature Name:	Internal Water Boundary
Description:	A line defining the limit of an internal water.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DB0130**
Feature Name:	Internal Water
Description:	Waters on the landward side of the baseline of a territorial sea and landlocked waters within a state.
Feature Class:	Polygon
Possible Attribute:	Name (NAM)

Feature Code: **DB0140**
Feature Name: Fishing Zone Boundary
Description: A line defining the limit of a fishing zone.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DB0150**
Feature Name: Fishing Zone
Description: The offshore zone in which fishing rights and management are held by coastal nation or an area designated for fishing within the EEZ limits, in accordance to the vessel size, power of engine, type of gears, and category of vessel's owner.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DB0160**
Feature Name: Maritime Firing Boundary
Description: A line defining the limit of a firing area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DB0170**
Feature Name: Maritime Firing Area
Description: A water area in which firing exercise is frequently carried out by the armed forces.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH)

Feature Code: **DB0180**
Feature Name: Harbour Authority Boundary
Description: A line defining the limit of a harbour authority area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DB0190**
Feature Name: Harbour Authority Area
Description: An area around a harbour under the authority the harbour.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **DB0200**
Feature Name: Port Authority Boundary
Description: A line defining the limit of a port authority area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DB0180**
Feature Name: Harbour Authority Boundary
Description: A line defining the limit of a harbour authority area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DB0190**
Feature Name: Harbour Authority Area
Description: An area around a harbour under the authority the harbour.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

Feature Code: **DB0200**
Feature Name: Port Authority Boundary
Description: A line defining the limit of a port authority area.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DB0210**
Feature Name: Port Authority Area
Description: An area surrounding a port under the authority of the port.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

DC - Cadastral

Feature Code: **DC0010**
Feature Name: State Land Boundary
Description: A line defining the limit of a state land.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **DC0020**
Feature Name: State Land
Description: All land in a state, including river bed, foreshore and sea bed as is within the territories of the state or the limits of territorial waters, other than alienated land, reserved land and mining land.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM)

Feature Code: **DC0030**
Feature Name: Land Parcel or Lot Boundary
Description: A line defining the limit of a parcel or lot.
Feature Class: Line
Possible Attribute: Name (NAM), Survey Status (SUS)

Feature Code: **DC0040**
Feature Name: Land Parcel or Lot
Description: A piece of land allotted by a state.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m²) (ARM), Survey Status (SUS)

Feature Code: **DC0050**
Feature Name: Strata Parcel Boundary
Description: A line defining the limit of a strata parcel.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code:	**DC0060**
Feature Name:	Strata Parcel
Description:	Sub-division of any building having two or more storeys on alienated land held as one lot under Final Title into parcels each to be held under a separate Strata Title.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**DC0070**
Feature Name:	Subterranean Parcel Boundary
Description:	A line defining the limit of ~~stratum~~ underground parcel.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DC0080**
Feature Name:	Subterranean Parcel
Description:	Underground land parcel formerly known as stratum
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**DC0090**
Feature Name:	Strata Accessory Parcel Boundary
Description:	A line defining the limit of a strata accessory parcel.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DC0100**
Feature Name:	Strata Accessory Parcel
Description:	Any parcel shown on a strata plan which is used in conjunction with a strata parcel.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**DC0110**
Feature Name:	Common Property Boundary
Description:	A line defining the limit of a common property.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**DC0120**
Feature Name:	Common Property
Description:	Any area not comprised in any strata parcel, including its accessory, or any provisional block as shown in an approved strata plan.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

DD – Planning Land Use

Feature Code:	**DD1000**
Feature Name:	Existing Land Use
Description:	An area of current land use of the site or existing land use which involved activities, or, new development that has obtained the Certificate of Completion and Compliance (CCC) from professional bodies.
Feature Class:	Polygon
Possible Attribute:	Land Use Type (LUT), Area Measured (h) (ARH), Name (NAM)
Feature Code:	**DD2000**
Feature Name:	Committed Land Use
Description:	An area of approved land use planning application (within the planning permission expiry date) and have yet to commence / carry-out *land work, and have not obtained the Certificate of Completion and Compliance (CCC) from professional bodies.
Feature Class:	Polygon
Possible Attribute:	Land Use Type (LUT), Area Measured (h) (ARH), Approval Date (ADT), Developer (DEV), Year of Approval (YOA)
Feature Code:	**DD3000**
Feature Name:	Zoning Land Use
Description:	Development zones for the permitted land use for a development based on planning studies and zoning designation proposed, upon publicity of the plan in which will be gazetted
Feature Class:	Polygon
Possible Attribute:	Land Use Type (LUT), Area Measured (h) (ARH), Gazette Reference Number (GNU), Gazette Date (GDT)
Feature Code:	**DD4000**
Feature Name:	Planning Permission
Description:	An area under planning applications in accordance to legal provisions / current practices and has not been approved
Feature Class:	Polygon
Possible Attribute:	Land Use Type (LUT), Name (NAM), Area Measured (h) (ARH), Submission Date (SDA), Principal Submitted Person (PSP), Principal Submitted Person Contact Number (PSN), Principal Submitted Person Contact Address (PSA), Developer (DEV), Year of Approval (YOA)

G - GEOLOGY

GA - Geolithology

Feature Code: **GA1000**
Feature Name: Surficial deposit
Description: Unconsolidated deposit occurring on the earth's surface.
Feature Class: Polygon
Possible Attribute: Surficial Deposit Type (SDT),Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Geological Feature Description (GFD),

Feature Code: **GA1100**
Feature Name: Alluvium
Description: Detrital materials deposited by running water.
Feature Class: Polygon
Possible Attribute: Surficial Deposit Composition Type (SDC), Texture (TEX), Environment of Deposition (END), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM),Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code: **GA1110**
Feature Name: Older alluvium (high terrace)
Description: Unconsolidated or moderately consolidated sedimentary deposited on the higher level.
Feature Class: Polygon
Possible Attribute: Surficial Deposit Composition Type (SDC), Texture (TEX), Environment of Deposition (END), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM),Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code: **GA1120**
Feature Name: Raised beach
Description: Ancient beach occurring above the present shore line chararterised by unconsolidated or moderately consolidated sedimentary deposited.
Feature Class: Polygon
Possible Attribute: Surficial Deposit Composition Type (SDC), Texture (TEX), Environment of Deposition (END), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM),Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code: **GA1200**
Feature Name: Peat
Description: Unconsolidated deposit of semi carbonised plant remains.
Feature Class: Polygon
Possible Attribute: Surficial Deposit Composition Type (SDC), Texture (TEX), Environment of Deposition (END), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM),Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code: **GA1300**
Feature Name: Surficial Deposit Others
Description: Other unconsolidated deposit occurring on the earth's surface.
Feature Class: Polygon
Possible Attribute: Surficial Deposit Composition Type (SDC), Texture (TEX), Environment of Deposition (END), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD)

Feature Code: **GA2000**
Feature Name: Sedimentary Rock
Description: Rocks resulting from the consolidation of loose sediments.
Feature Class: Polygon
Possible Attribute: Sedimentary Rock Group (SRG), Maximum Geological Age in Period (GAX), Minimum Geological Age in Period (GAM), Geological Feature Description (GFD)

Feature Code: **GA2100**
Feature Name: Argillaceous Rock
Description: Sedimentary rocks composed of higher proportion of clay minerals.
Feature Class: Polygon
Possible Attribute: Sedimentary Rock Type (SRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code: **GA2200**
Feature Name: Arenaceous Rock
Description: Sedimentary rocks composed of higher proportion of sand minerals.
Feature Class: Polygon
Possible Attribute: Sedimentary Rock Type (SRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code: **GA2300**
Feature Name: Rudaceous Rock
Description: Sedimentary rocks composed of fragments coarser than sand.
Feature Class: Polygon
Possible Attribute: Sedimentary Rock Type (SRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code: **GA2400**
Feature Name: Calcareous Rock
Description: Sedimentary rocks composed of higher proportion of calcium or magnesium carbonates.
Feature Class: Polygon
Possible Attribute: Sedimentary Rock Type (SRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code: **GA2500**
Feature Name: Siliceous Rock
Description: Sedimentary rocks composed of higher proportion of silicon dioxide.
Feature Class: Polygon
Possible Attribute: Sedimentary Rock Type (SRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code: GA2600
Feature Name: Carbonaceous Rock
Description: Sedimentary rocks composed of higher composition of sedimentary organic matter in various forms.
Feature Class: Polygon
Possible Attribute: Sedimentary Rock Type (SRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD)

Feature Code: GA2700
Feature Name: Evaporite Rock
Description: Sedimentary rocks mostly composed of minerals produced from a saline solution as a result of extensive or total evaporation of the solvent.
Feature Class: Polygon
Possible Attribute: Sedimentary Rock Type (SRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Fossils (FOS), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD)

Feature Code: **GA3000**
Feature Name: Igneous Rocks
Description: Rocks that solidified from molten or partly molten magma.
Feature Class: Polygon
Possible Attribute: Igneous Rock Group (IRG), Igneous Rock Composition Type (IRP), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Geological Feature Description (GFD),

Feature Code: **GA3100**
Feature Name: Volcanic Acid Rocks
Description: Rocks ejected by volcanic activity of acidic composition.
Feature Class: Polygon
Possible Attribute: Name (NAM), Igneous Rock Type (IRT), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX),

Feature Code: **GA3200**
Feature Name: Volcanic Intermediate Rocks
Description: Rocks ejected by volcanic activity of intermediate composition.
Feature Class: Polygon
Possible Attribute: Name (NAM), Igneous Rock Type (IRT), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX),

Feature Code: **GA3300**
Feature Name: Volcanic Basic Rocks
Description: Rocks ejected by volcanic activity of basic composition.
Feature Class: Polygon
Possible Attribute: Name (NAM), Igneous Rock Type (IRT), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX),

Feature Code: **GA3400**
Feature Name: Plutonic Acid Rocks
Description: Igneous rocks that contain high percentage of silica.
Feature Class: Polygon
Possible Attribute: Name (NAM), Igneous Rock Type (IRT), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX),

Feature Code: **GA3500**
Feature Name: Plutonic Intermediate Rocks
Description: Igneous rocks that contain medium percentage of silica.
Feature Class: Polygon
Possible Attribute: Name (NAM), Igneous Rock Type (IRT), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX),

Feature Code: **GA3600**
Feature Name: Plutonic Basic Rocks
Description: Igneous rocks that contain low percentage of silica.
Feature Class: Polygon
Possible Attribute. Name (NAM), Igneous Rock Type (IRT), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX),

Feature Code: **GA3700**
Feature Name: Plutonic Ultrabasic Rocks
Description: Igneous rocks that contain little or no silica.
Feature Class: Polygon
Possible Attribute: Name (NAM), Igneous Rock Type (IRT), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX),

Feature Code: **GA3800**
Feature Name: Volcanic Pyroclastic Rocks
Description: Rock formed of material from volcanic explosion
Feature Class: Polygon
Possible Attribute: Name (NAM), Igneous Rock Type (IRT), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX),

Feature Code: **GA4000**
Feature Name: Metamorphic Rocks
Description: Rocks formed by changes of temperature, pressure and chemical environment.
Feature Class: Polygon
Possible Attribute: Metamorphic Rock Group (MRG), Geological Feature Description (GFD), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX),

Feature Code: **GA4100**
Feature Name: Regional
Description: Sedimentary rock that shows evidence of having been subjected to metamorphism regionally.
Feature Class: Polygon
Possible Attribute: Metamorphic Rock Type (MRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code:	**GA4200**
Feature Name:	Contact
Description:	Sedimentary rock that shows evidence of having been subjected to metamorphism by contact.
Feature Class:	Polygon
Possible Attribute:	Metamorphic Rock Type (MRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code:	**GA4300**
Feature Name:	Dynamic
Description:	Sedimentary rock that shows evidence of having been subjected to metamorphism by dynamic.
Feature Class:	Polygon
Possible Attribute:	Metamorphic Rock Type (MRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code:	**GA4400**
Feature Name:	Impact Metamorphic Rocks
Description:	Sedimentary rock that shows evidence of having been subjected to metamorphism by meteorite impact.
Feature Class:	Polygon
Possible Attribute:	Metamorphic Rock Type (MRT), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Name (NAM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code:	**GA5000**
Feature Name:	Meteorites
Description:	Solid mass in the form of rock, metal or mixture of both that come from space and reached the earth.
Feature Class:	Point
Possible Attribute:	Outer space material type (OSM), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

GB – Mineral

Feature Code:	**GB1000**
Feature Name:	Minerals
Description:	Location of a concentration of mineral that is considered to be valuable.
Feature Class:	Point, polygon
Possible Attribute:	Mineral Group (MIG), Mineral Category (MIC)

Feature Code:	**GB1100**
Feature Name:	Metallic Minerals
Description:	Location of metallic mineral mineralisation. Metallic minerals are minerals normally with a high specific gravity and metallic lustre.
Feature Class:	Point, Polygon
Possible Attribute:	Metallic Minerals Type (MTY), Mineral Category (MIC),

Feature Code:	**GB1110**
Feature Name:	Precious Metals
Description:	Location of precious metals mineralisation.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

Feature Code:	**GB1120**
Feature Name:	Base Metals
Description:	Location of base metals mineralisation, commonly refer to a group of metals that include copper, lead and zinc.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

Feature Code:	**GB1130**
Feature Name:	Light Metals
Description:	Location of light metals mineralisation.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

Feature Code:	**GB1140**
Feature Name:	Iron & Ferrous Alloy
Description:	Location of iron and ferrous alloy mineralisation.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

Feature Code:	**GB1150**
Feature Name:	Tin & Associated Minerals
Description:	Location of tin & associated minerals mineralisation.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

Feature Code:	**GB1160**
Feature Name:	Rare Metals
Description:	Location of rare metals mineralisation.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

Feature Code:	**GB1170**
Feature Name:	Other Metallic Minerals
Description:	Other Metallic Minerals
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Type (MTP), Mineral Category (MIC)

Feature Code:	**GB1200**
Feature Name:	Non-Metallic Minerals
Description:	Location of non-metallic mineralisation.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Category (MIC), Non-Metallic Mineral Type (NMT)

Feature Code:	**GB1210**
Feature Name:	Clay-Based Minerals
Description:	Location of potential clay-based minerals.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

Feature Code:	**GB1220**
Feature Name:	Sand-Based Minerals
Description:	Location of potential sand-based minerals.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

Feature Code:	**GB1230**
Feature Name:	Rock-Based Minerals
Description:	Location of potential rock-based minerals.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

Feature Code:	**GB1240**
Feature Name:	Other Non-Metallic Minerals
Description:	Location of other non-metallic mineralisation.
Feature Class:	Point, Polygon
Possible Attribute:	Mineral Category (MIC), Mineral Type (MTP)

Feature Code:	**GB1300**
Feature Name:	Energy Minerals
Description:	Location of potential site for energy minerals.
Feature Class:	Point, polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

Feature Code:	**GB1400**
Feature Name:	Fertilizer Minerals
Description:	Location of potential site for fertilizer minerals.
Feature Class:	Point, polygon
Possible Attribute:	Mineral Name (MIN), Mineral Category (MIC)

GC – Fossils

Feature Code:	**GC1000**
Feature Name:	Fossil
Description:	Any remains, traces, or imprint of plants or animals that has been preserved.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Fossil Type (FOT), Age in Period (APE), Fossil Habitat (FOH)

Feature Code:	**GC1100**
Feature Name:	Fauna
Description:	Preserved animal fossils.
Feature Class:	Point
Possible Attribute:	Name (NAM), Field Number (FNO), Registered Number (RNO), Age in Period (APE), Fossil Habitat (FOH)

Feature Code:	**GC1200**
Feature Name:	Flora
Description:	Preserved plant fossils.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Name (NAM), Age in Period (APE), Fossil Habitat (FOH)

Feature Code: **GC1300**
Feature Name: Trace
Description: Preserved fossil imprints.
Feature Class: Point
Possible Attribute: Field Number (FNO), Registered Number (RNO), Name (NAM), Age in Period (APE), Fossil Habitat (FOH)

GD- Mining

Feature Code: **GD1000**
Feature Name: Mining and Quarrying Area
Description: An area authorised for mining or mining tenement.
Feature Class: Point, Polygon
Possible Attribute: Field Number (FNO), Mines Type (MNT), Quarry Type (QUT), Date Start (DAS), Date End (DAE),

Feature Code: **GD2000**
Feature Name: Mines
Description: An authorised area where minerals are worked.
Feature Class: Point, Polygon
Possible Attribute: Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT),Custodian (CUS), Mines Type (MNT), Mineral Group (MIG), Mineral Type (MTP), Date Start (DAS), Date End (DAE), Operational Status (OPS)

Feature Code: **GD2100**
Feature Name: Mine Pit
Description: Actual excavation for mineral extraction site on the surface.
Feature Class: Point, Polygon
Possible Attribute: Mine Pit Type (MPT)

Feature Code: **GD2200**
Feature Name: Mine Tailings Area
Description: The storage area for gangue and other refused material resulting from the washing, concentration or treatment of ground ore.
Feature Class: Point, Polygon
Possible Attribute: Mining Tail Area Type (MTT)

Feature Code: **GD3000**
Feature Name: Quarry Site
Description: Area designated for quarry operations.
Feature Class: Point, Polygon
Possible Attribute: Field Number (FNO), Registered Number (RNO), Name (NAM), Custodian (CUS), Authority (AUT), Date Start (DAS), Date End (DAE), Quarry Use (QUU), Quarry Type (QUT), Rock Type (RKT), Operational Status (OPS), Quarry Authorised Type (QAT)

Feature Code: **GD3100**
Feature Name: Quarry Pit
Description: Area within the quarry site where the rocks are actually extracted.
Feature Class: Point, Polygon
Possible Attribute: Quarry Type (QUT)

Feature Code:	**GD4000**
Feature Name:	Extraction Permit Area
Description:	Area authorised for clay and sand extraction.
Feature Class:	Point, Polygon
Possible Attribute:	Registered Number (RNO), Earth Material Type (EMT), Custodian (CUS), Authority (AUT), Date Start (DAS), Date End (DAE),

Feature Code:	**GD5000**
Feature Name:	Stockpile
Description:	A designated area for storing broken ore or material accumulated in a heap on the surface, pending treatment or shipment.
Feature Class:	Polygon
Possible Attribute:	Stockpile Type (STY)

Feature Code:	**GD6000**
Feature Name:	Rehabilitational Area
Description:	An area where the land is subjected for rehabilitation after mining activities ceased.
Feature Class:	Point, Polygon
Possible Attribute:	Mines Type (MNT), Name (NAM), Custodian (CUS), Authority (AUT), Quarry Type (QUT), Reclaimed Land Purpose (RLP)

GE – Exploration

Feature Code:	**GE1000**
Feature Name:	Mineral and Geoscience Exploration Block
Description:	An area designated for mineral exploration.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Custodian (CUS), Mineral Exploration Block Type (MET), Date Start (DAS), Date End (DAE), Authority (AUT),

Feature Code:	**GE1100**
Feature Name:	Geological Mapping Area
Description:	An area where various rock types and geological features are mapped.
Feature Class:	Point, Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT), Custodian (CUS), Geologist(s) (GEO), Date Start (DAS), Date End (DAE), Work Status (WOS), Report Status (RES), Coverage Percentage (PCC), Survey Phase (SVP),

Feature Code:	**GE1200**
Feature Name:	Geochemical Survey Area
Description:	An area where geochemical investigation is carried out to search for minerals or environmental studies.
Feature Class:	Point, Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT), Custodian (CUS), Geologist(s) (GEO), Date Start (DAS), Date End (DAE), Work Status (WOS), Report Status (RES), Coverage Percentage (PCC), Survey Phase (SVP),

Feature Code:	**GE1210**
Feature Name:	Geochemical Sample Point
Description:	Sites where samples are taken for chemical analysis.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Geochemical Sample Point Type (GPT), Geochemical Survey Area Purpose (GEP),

Feature Code:	**GE1211**
Feature Name:	Sample Point Rock
Description:	Rock sampling location.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Collector (COL), Date Start (DAS), Date End (DAE)

Feature Code:	**GE1212**
Feature Name:	Sample Point Soil
Description:	Soil sampling location.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Collector (COL), Date Start (DAS), Date End (DAE)

Feature Code:	**GE1213**
Feature Name:	Sample Point Silt
Description:	Silt sampling location.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Collector (COL), Date Start (DAS), Date End (DAE)

Feature Code:	**GE1214**
Feature Name:	Sample Point Stream Concentrate
Description:	Stream concentrate sampling location.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Collector (COL), Date Start (DAS), Date End (DAE)

Feature Code:	**GE1215**
Feature Name:	Sample Point Stream Water
Description:	Stream water sampling location.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Collector (COL), Date Start (DAS), Date End (DAE)

Feature Code:	**GE1300**
Feature Name:	Geophysical Survey Area
Description:	An area where the search for minerals, groundwater and geological features is done using geophysical method.
Feature Class:	Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT), Custodian (CUS), Geologist(s) (GEO), Date Start (DAS), Date End (DAE), Work Status (WOS), Report Status (RES), Coverage Percentage (PCC), Survey Phase (SVP),

Feature Code: **GE1310**
Feature Name: Geophysical Survey Line
Description: A line where the geophysical measurements are made.
Feature Class: Line
Possible Attribute: Field Number (FNO), Registered Number (RNO), Person (PER), Date Start (DAS), Date End (DAE), Geophysical Method (GPM),

Feature Code: **GE1320**
Feature Name: Geophysical Survey Station
Description: A point where the geophysical measurement is made.
Feature Class: Point
Possible Attribute: Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT), Custodian (CUS), Geologist(s) (GEO), Date Start (DAS), Date End (DAE), Work Status (WOS), Report Status (RES), Coverage Percentage (PCC), Survey Phase (SVP),

Feature Code: **GE1400**
Feature Name: Exploration Hole
Description: Location of holes made for downhole logging and sample collection.
Feature Class: Point
Possible Attribute: Field Number (FNO), Registered Number (RNO), Collector (COL), Survey Phase (SVP), Mineral Type (MTP), Drill Method (DRM), Depth (DPT), Record Number (REC), Exploration Holes Purpose (EHP)

Feature Code: **GE1500**
Feature Name: Anomaly Area
Description: Areas where anomalies are identified.
Feature Class: Polygon
Possible Attribute: Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT), Custodian (CUS), Geologist(s) (GEO), Date Start (DAS), Date End (DAE), Work Status (WOS), Report Status (RES), Coverage Percentage (PCC), Survey Phase (SVP),

Feature Code: **GE1510**
Feature Name: Mineral Anomaly
Description: Areas interpreted to have a potential for mineralisation.
Feature Class: Polygon
Possible Attribute: Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT), Custodian (CUS), Geologist(s) (GEO), Date Start (DAS), Date End (DAE), Work Status (WOS), Report Status (RES), Coverage Percentage (PCC), Survey Phase (SVP),

Feature Code: **GE2000**
Feature Name: Geological Remote Sensing Area
Description: An area where remote sensing is carried out for geological mapping and mineral exploration.
Feature Class: Polygon
Possible Attribute: Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT), Custodian (CUS), Geologist(s) (GEO), Date Start (DAS), Date End (DAE), Work Status (WOS), Report Status (RES), Coverage Percentage (PCC), Survey Phase (SVP),

Feature Code:	**GE3000**
Feature Name:	Environmental Geology Survey Area
Description:	An area where environmental geology studies are conducted.
Feature Class:	Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT), Custodian (CUS), Geologist(s) (GEO), Date Start (DAS), Date End (DAE), Work Status (WOS), Report Status (RES), Coverage Percentage (PCC), Survey Phase (SVP),

GF - Geological Features

Feature Code:	**GF1100**
Feature Name:	Faulting
Description:	Large fracture in rock where movement has taken place.
Feature Class:	Line
Possible Attribute:	Faulting (FTY), Geological Accuracy (GAC), Strike (STR), Dip (DIP)

Feature Code:	**GF1200**
Feature Name:	Folding
Description:	The formation of fold in rocks.
Feature Class:	Line
Possible Attribute:	Folding Type (FLT), Geological Accuracy (GAC), ~~Fold Direction (FOD),~~ Fold Axis Direction (FOX), Fold Plunging Angle (FOP)

Feature Code:	**GF1300**
Feature Name:	Bedding
Description:	The arrangement of a sedimentary rock in beds or layers of varying thickness and character.
Feature Class:	Point, Line
Possible Attribute:	Bedding and Jointing Type (BJT), Strike (STR), Dip (DIP)

Feature Code:	**GF1400**
Feature Name:	Jointing
Description:	Fracture in rock where no movement has taken place.
Feature Class:	Point, Line
Possible Attribute:	Bedding and Jointing Type (BJT), Strike (STR), Dip (DIP)

Feature Code:	**GF1500**
Feature Name:	Lineament
Description:	A linear topographic feature reflecting the crustal structure line.
Feature Class:	Line
Possible Attribute:	Lineament Type (LTY), Strike (STR), ~~Dip (DIP),~~ Lineament Dip Inclination (LIP)

Feature Code:	**GF2000**
Feature Name:	Intrusive Structure
Description:	A ridgelike or moundlike structure, layered or massive.
Feature Class:	Point, Line, Polygon
Possible Attribute:	Intrusive Structure Type (IST), Intrusive Structure Composition (ISC)

Feature Code:	**GF3000**
Feature Name:	Other Geological Structure
Description:	Distinctive structures contributing to the geological properties.
Feature Class:	Point, Line, Polygon
Possible Attribute:	Geological Structure Category (GSC)

Feature Code:	**GF4000**
Feature Name:	Geological Boundary
Description:	A line demarcating rock units of different properties.
Feature Class:	Line
Possible Attribute:	Geological Accuracy (GAC)

Feature Code:	**GF4100**
Feature Name:	Rock Outcrop
Description:	Area of rock outcrop occurrence.
Feature Class:	Polygon
Possible Attribute:	Rock Outcrop Type (ROT)

Feature Code:	**GF4200**
Feature Name:	Rock Boulders
Description:	Area of rock boulder occurrence.
Feature Class:	Polygon
Possible Attribute:	Rock Boulders Type (RBT)

Feature Code:	**GF5000**
Feature Name:	Geological Lithostratigraphic Unit
Description:	Area of geological rock units classified according to principal stratigraphic categories; which generally conforms to the Law of Superposition and commonly is stratified and tabular in form.
Feature Class:	Polygon
Possible Attribute:	Geological Lithostratigraphic / Lithodemic Name (GLN), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Geological Lithostratigraphic / Lithodemic Rank (GLR), Geological Lithostratigraphic / Lithodemic Type (GLS), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code:	**GF6000**
Feature Name:	Geological Lithodemic Unit
Description:	Area of geological rock units classified according to principal stratigraphic categories; which generally conforms to the Law of Superposition and commonly is stratified and tabular in form.
Feature Class:	Polygon
Possible Attribute:	Geological Lithostratigraphic / Lithodemic Name (GLN), Minimum Geological Age in Period (GAM), Maximum Geological Age in Period (GAX), Geological Lithostratigraphic / Lithodemic Rank (GLR), Geological Lithostratigraphic / Lithodemic Type (GLS), Geologist(s) (GEO), Date (DAT), Geological Feature Description (GFD),

Feature Code:	**GF7000**
Feature Name:	Profile Line
Description:	Indicative line where 2D information is available.
Feature Class:	Line
Possible Attribute:	Profile Type (PTY)

GG - Geoscience

Feature Code:	**GG1000**
Feature Name:	Hydrogeological Survey Area
Description:	An area where hydrogeological studies are conducted.
Feature Class:	Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT), Custodian (CUS), Geologist(s) (GEO), Date Start (DAS), Date End (DAE), Work Status (WOS), Report Status (RES), Coverage Percentage (PCC), Survey Phase (SVP),

Feature Code:	**GG1100**
Feature Name:	Groundwater Potential Area
Description:	An area identified capable of producing significant quantity of groundwater.
Feature Class:	Polygon
Possible Attribute:	Host Rock (HOR), Groundwater Potential Class (GWP)

Feature Code:	**GG1110**
Feature Name:	Aquifer Alluvial
Description:	A water bearing formation composed of loose, unsorted earthen materials, or particles such as clay, silt, sand, gravel, or stones.
Feature Class:	Polygon
Possible Attribute:	Aquifer Material (AQM), Aquifer Type (AQT), Aquifer Depth (AQD), Discharge (DIS)

Feature Code:	**GG1120**
Feature Name:	Aquifer Peat
Description:	A water bearing formation composed of peat
Feature Class:	Polygon
Possible Attribute:	Aquifer Material (AQM), Aquifer Type (AQT), Aquifer Depth (AQD), Discharge (DIS)

Feature Code:	**GG1130**
Feature Name:	Aquifer Hardrock
Description:	A water bearing formation in hardrock.
Feature Class:	Polygon
Possible Attribute:	Host Rock (HOR), Aquifer Depth (AQD), Aquifer Type (AQT), Discharge (DIS),

Feature Code:	**GG1200**
Feature Name:	Groundwater Monitoring Station
Description:	A monitoring station to measure the level and effects of groundwater discharge and groundwater quality.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Groundwater Station Type (GST)

Feature Code:	**GG1300**
Feature Name:	Groundwater Well
Description:	A hole drilled into the earth for the extraction of groundwater.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Authority (AUT), Custodian (CUS), Well Type (WTY), Tube Well Use (WTU), Discharge (DIS), Aquifer Depth (AQD), Groundwater Quality (GWQ), Total Dissolved Solid (TDS), Operational Status (OPS)

Feature Code:	**GG1400**
Feature Name:	Groundwater Limit
Description:	An isoline defining the limit of an area with similar groundwater characteristics.
Feature Class:	Line
Possible Attribute:	Groundwater Limit Type (GLT)

Feature Code:	**GG1410**
Feature Name:	Groundwater Flow
Description:	A line indicating the direction of groundwater movement.
Feature Class:	Line
Possible Attribute:	-

Feature Code:	**GG1500**
Feature Name:	Hydrogeological Zone
Description:	An area delineated for groundwater extraction, source or protection.
Feature Class:	Polygon
Possible Attribute:	Hydrogeological Zone Type (HZT)

Feature Code:	**GG1600**
Feature Name:	Hydrogeological Natural Features
Description:	Groundwater natural discharges point.
Feature Class:	Point
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Hydrogeological Natural Features Type (HNT), Discharge (DIS)

Feature Code:	**GG2000**
Feature Name:	Engineering Geology Survey Area
Description:	An area where engineering geology studies are conducted.
Feature Class:	Point, Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Name (NAM), Authority (AUT), Custodian (CUS), Geologist(s) (GEO), Date Start (DAS), Date End (DAE), Work Status (WOS), Report Status (RES), Coverage Percentage (PCC), Survey Phase (SVP),

Feature Code:	**GG2100**
Feature Name:	Geohazard Site
Description:	A site of naturally occurring or man-made geologic condition that presents a risk or is a potential danger to life and property.
Feature Class:	Point, Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Name (NAM), Geohazard Type (GHT), Geohazard Status (GHS)

Feature Code:	**GG2110**
Feature Name:	Landslide Site
Description:	A site of mass movement of landforms, and processes involving the downslope transport under gravitational influence.
Feature Class:	Point, Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Landslide Type (LST), Rock Type (RKT), Date (DAT)

Feature Code:	**GG2120**
Feature Name:	Rockfall Site
Description:	A site of the relatively free falling of rock of any size from a cliff or other very steep slope.
Feature Class:	Point, Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Rockfall Type (RFT), Rock Type (RKT), Date (DAT)

Feature Code:	**GG2130**
Feature Name:	Erosion Site
Description:	A site whereby the soil are loosened, dissolved or worn away, simultaneously moved from one place to another; usually by water.
Feature Class:	Point, Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Erosion Type (EST),

Feature Code:	**GG2140**
Feature Name:	Sinkhole Site
Description:	A site of sinkhole or, a relatively small spot of land subsidence.
Feature Class:	Point, Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Sinkhole Type (SKH), Rock Type (RKT), Date (DAT)

Feature Code:	**GG2150**
Feature Name:	Land Subsidence Site
Description:	A site where a downward settling of material with little horizontal motion occurred.
Feature Class:	Point, Polygon
Possible Attribute:	Field Number (FNO), Registered Number (RNO), Land Subsidence Site Type (GSS), Rock Type (RKT), Date (DAT)

Feature Code:	**GG2200**
Feature Name:	Construction Suitability
Description:	An area indicating the suitability of land to be developed in terms of free from one or more of any geological hazard.
Feature Class:	Polygon
Possible Attribute:	Construction Suitability Class Type (CST)

H - HYDROGRAPHY

HA - Coastal Hydrography

Feature Code: **HA0010**
Feature Name: Shore Line
Description: The high water mark of ordinary spring tides.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **HA0020**
Feature Name: Coast
Description: The edge margin of land next to the sea.
Feature Class: Line
Possible Attribute: Name (NAM), Coast Type (COT), Coastal Erosion Status (CES)

Feature Code: **HA0030**
Feature Name: Shore
Description: The narrow strip of land in immediate contact with the sea, including the zone between the high and low water lines.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM), Shore Type (SHT)

Feature Code: **HA0040**
Feature Name: Bay
Description: A recess in the shore or an inlet of a sea between two capes or headlands.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **HA0050**
Feature Name: Lagoon
Description: A shallow body of water, like a pond or lake, usually connected to the sea.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **HA0060**
Feature Name: Headland
Description: A high, steep-faced promontory extending into the sea.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **HA0070**
Feature Name: Delta
Description: An alluvial deposit formed at a river mouth.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **HA0080**
Feature Name: Bar
Description: A submerged or emerged embankment of sand, gravel, or other unconsolidated material built on the sea floor in shallow water by waves or currents.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HA0090**
Feature Name:	Spit
Description:	A small point of land or a narrow shoal projecting into a body of water from the shore.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HA0100**
Feature Name:	Reef
Description:	An offshore consolidated rock hazard to navigation with a depth of about 20 m or less.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Reef Category (RFC)

Feature Code:	**HA0110**
Feature Name:	Atoll
Description:	A ring-shaped coral reef, often carrying low sand islands, enclosing a lagoon.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HA0120**
Feature Name:	Beach
Description:	The zone of unconsolidated material that extends landward from the low water line to the place where there is marked change in material or physiographic form, or to the line of permanent vegetation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Beach Type (BET)

Feature Code:	**HA0130**
Feature Name:	Intertidal Flat
Description:	Marshy or muddy land areas which are covered and uncovered by the Mean High Water (MHW) and Mean Low Water (MLW).
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HA0140**
Feature Name:	Saline Flat
Description:	Marshy or muddy land areas which are influenced by seawater.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HA0150**
Feature Name:	Water Mark
Description:	The limit where the sea water encroach into a river.
Feature Class:	Line, Point
Possible Attribute:	Name (NAM), Water Level Mark (WAM)

Feature Code:	**HA0160**
Feature Name:	Mean Sea Level
Description:	The average level of the sea over a long period of time.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**HA0170**
Feature Name:	Coastal Flood Plain
Description:	An area along the coast which is submerged when sea water level reaches a specified level.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**HA0180**
Feature Name:	Cape
Description:	A piece of land projecting into a body of water.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**HA0190**
Feature Name:	Cay
Description:	A small insular feature usually with scant vegetation; usually of sand or coral. Often applied to smaller coral shoals.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**HA0200**
Feature Name:	Islet
Description:	A small island.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM)

HB - Shoreline Structure

Feature Code:	**HB0010**
Feature Name:	Breakwater
Description:	A structure protecting a shore area, harbour, anchorage, or basin from waves.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Breakwater Type (BWT), Armour Type (AMT)

Feature Code:	**HB0020**
Feature Name:	Groyne
Description:	A shore-protection structure built to trap littoral drift or retard erosion of the shore.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**HB0030**
Feature Name:	Reclaimed Land
Description:	An area formerly submerged under water which has been filled up and whose ground level is above high water line.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Reclaimed Land Purpose (RLP)

Feature Code:	**HB0040**
Feature Name:	Revetment
Description:	A facing of stone, concrete or other material, built to protect a scarp, embankment, or shore structure against erosion by wave action or currents.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HB0050**
Feature Name:	Sea Wall
Description:	A structure separating land and water areas, primarily designed to prevent erosion and other damage due to wave action.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HB0060**
Feature Name:	Bund
Description:	A wall or mould built around a low-lying area to prevent flooding.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HB0070**
Feature Name:	Outfall
Description:	A structure extending into a body of water for the purpose of discharging sewage, storm runoff, or cooling water.
Feature Class:	Point, Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HB0080 (additional from PHN)**
Feature Name:	Steps
Description:	steps at the shoreline as the connection between land and water on different levels.
Feature Class:	Point, Polygon, Line
Possible Attribute:	Nature of Construction (NOC); Status (STA)

Feature Code:	**HB0090**
Feature Name:	Pile
Description:	A long heavy timber or section of steel, wood, concrete, etc.forced into the earth which may serve as a support, as for a pier, or a free standing pole within a marine environment.
Feature Class:	Point,
Possible Attribute:	Category of Pile (COP); Name (NAM)

Feature Code:	**HB0100**
Feature Name:	Hulkes
Description:	A permanently moored ship.
Feature Class:	Point, Polygon,
Possible Attribute:	Category of Hulkes (COH); Name (NAM)

Feature Code:	**HB0110**
Feature Name:	Canal
Description:	An artificial waterway with no flow, or a controlled flow, used for navigation, or for draining or irrigating land (ditch).
Feature Class:	Line, Polygon,
Possible Attribute:	Canal Type (CAT), Name (NAM)

HC - Fishing Facilities

Feature Code: **HC0010**
Feature Name: Sea Recreational Area
Description: An area of sea water used for recreation or sports.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **HC0020**
Feature Name: Fishing Haven
Description: Areas established to stimulate and attract fish.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **HC0030**
Feature Name: Marine Farm
Description: An assemblage of cages, nets, rafts and floats where fish including shellfish are artificially cultivated.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **HC0040**
Feature Name: Fishing Gate
Description: A structure that may be swung, drawn or lowered to block an entrance or passageway.
Feature Class: Point, Line
Possible Attribute: Name (NAM)

Feature Code: **HC0050**
Feature Name: Fishing Trap
Description: A structure (usually portable) for catching fish.
Feature Class: Point
Possible Attribute: Name (NAM), Fishing Trap Type (FTT)

Feature Code: **HC0060**
Feature Name: Fishing Platform
Description: A permanent offshore structure used for fishing.
Feature Class: Point
Possible Attribute: Name (NAM)

Feature Code: **HC0070**
Feature Name: Artificial Reef
Description: An artificial structure made for fish breeding.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM)

HD - Ports and Harbours

Feature Code: **HD0010**
Feature Name: Harbour
Description: A protected inlet of a body of water where ships can anchor.
Feature Class: Polygon
Possible Attribute: Name (NAM)

Feature Code:	**HD0020**
Feature Name:	Port
Description:	A place provided with terminal and transfer facilities for loading and discharging cargo or passengers usually located in a harbour.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Number of Berth (NOB)

Feature Code:	**HD0030**
Feature Name:	Lock Basin
Description:	A wet dock in a waterway permitting ship to move from one level to another.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HD0040**
Feature Name:	Jetty/Pier
Description:	A long, narrow structure extending into the water to afford a berthing place for vessels, to serve as a promenade, etc.
Feature Class:	Point, Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HD0045**
Feature Name:	Wharf/Quay
Description:	A structure serving as a berthing place for vessels consisting of a solid or open wall of concrete, mansory, wood etc.
Feature Class:	Point, Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HD0050**
Feature Name:	Slipway
Description:	Reinforced inclined surface on which keel and bilge-blocks are laid for supporting vessel under construction.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**HD0060**
Feature Name:	Dockyard
Description:	An artificially enclosed area within which ships undergo repair or construction.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HD0070**
Feature Name:	Pontoon
Description:	A floating structure usually rectangular in shape which serves as landing, pier head or bridge support.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**HD0080**
Feature Name:	Dry Dock
Description:	An artificial basin fitted with a gate or caisson, into which vessel can be floated.
Feature Class:	Point, Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HD0090**
Feature Name:	Marina
Description:	A harbour facility for small boats and yachts where supplies repairs and various services are available.
Feature Class:	Point, Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HD0100**
Feature Name:	Floating Dock
Description:	A dock consisting of a floating structure of one or more sections that can control flooding to receive a vessel and pumping out the water to expose vessel's bottom.
Feature Class:	Point, Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HD0110**
Feature Name:	Dolphin
Description:	A post or group of posts used for mooring or warping a vessel, or as an aid to navigation.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HD0120**
Feature Name:	Mooring Facilities
Description:	The equipment or structure use to secure a vessel.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HD0130**
Feature Name:	Anchorage Area
Description:	An area in which vessels are allowed to anchor.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HD0140**
Feature Name:	Anchorage Prohibited
Description:	An area in which vessels are prohibited to anchor.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HD0150**
Feature Name:	Pilot Boarding Place
Description:	The meeting place to which the pilot comes out.
Feature Class:	Point, Polygon,
Possible Attribute:	Name (NAM)

HE - Navigation Aids

Feature Code:	**HE0010**
Feature Name:	Beacon
Description:	A prominent specially constructed object forming a conspicuous mark as fixed aid to navigation.
Feature Class:	Point
Possible Attribute:	Name (NAM), Top Mark (TOP)

Feature Code:	**HE0020**
Feature Name:	Light House
Description:	A tower or structure containing a beacon light to warn or guide ships.
Feature Class:	Point
Possible Attribute:	Name (NAM), Light Characteristic Category (LCC)

Feature Code:	**HE0030**
Feature Name:	Transit Mark
Description:	Two distant fixed objects which provide position line.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HE0040**
Feature Name:	Navigation Pole
Description:	An elongated wood or metal embedded in the bottom of the sea to provide navigation.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HE0050**
Feature Name:	Buoy
Description:	A floating object moored to the seabed in a charted place as a navigation aid or for other specific purpose.
Feature Class:	Point
Possible Attribute:	Name (NAM), Buoy Type (BUT)

Feature Code:	**HE0060**
Feature Name:	Dredge Area
Description:	An area at the bottom of a body of water which has been deepened.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HE0070**
Feature Name:	Turning Basin
Description:	An area of water or enlargement of a channel in a port which is kept clear of buoy to enable vessels to turn.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HE0080**
Feature Name:	Traffic Separation Scheme
Description:	Imaginary lines forming an area on water bodies to separate opposing traffics.
Feature Class:	Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**HE0090**
Feature Name:	Inshore Traffic Zone
Description:	A routing measure comprising a designated area between the landward boundary of a traffic separation scheme and the adjacent coast, to be used in accordance with the provisions of the International Regulations for Preventing Collision at Sea.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HE0100**
Feature Name:	Recommended Route
Description:	A track, shown on a chart by either a dashed or a continuous line, recommended to all or only certain vessels.
Feature Class:	Line
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HE0110**
Feature Name:	Precautionary Area
Description:	A routing measure comprising an area within defined limits where ships must navigate with particular caution and within which direction of traffic flow may be recommended.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HE0120**
Feature Name:	Marine Round About
Description:	A specific point or zone where traffic moves around in a counter clockwise direction.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HE0130 (additional from PHN)**
Feature Name:	Restricted Area
Description:	A specified area designated by an appropriate authority within which navigation is restricted in accordance with certain specified conditions.
Feature Class:	Polygon,
Possible Attribute:	Name (NAM), Category of Restricted Area (CRA)

Feature Code:	**HE0140**
Feature Name:	Military Practice Area
Description:	An area within which naval, military or aerial exercises are carried out. Also called an exercise area.
Feature Class:	Point, Polygon,
Possible Attribute:	Name (NAM)

Feature Code:	**HE0150**
Feature Name:	Log Pond
Description:	A maritime area enclosed with connected floating timbers used as a staging area for sawn logs.
Feature Class:	Point, Polygon,
Possible Attribute:	Name (NAM)

HF - Danger and Hazards

Feature Code:	**HF0010**
Feature Name:	Obstruction
Description:	Objects that endangers or prevent safe passage of a vessel, e.g. sunken rock, pinnacle etc.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HF0020**
Feature Name:	Current
Description:	Lines on charts showing the strength and directions of horizontal movement of water.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**HF0030**
Feature Name:	Sandwave
Description:	A large wavelike sediment feature in very shallow water and composed of sand.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HF0040**
Feature Name:	Wreck
Description:	The ruined remains of a stranded or sunken vessel.
Feature Class:	Point
Possible Attribute:	Name (NAM), Wreck Category (WKC), Wreck Depth (WKD)

Feature Code:	**HF0050**
Feature Name:	Spoil Ground
Description:	An area at sea where dredged material is deposited. Also called dumping ground.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HF0060**
Feature Name:	Explosive Dumping Ground
Description:	An area at sea where explosives are dumped.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HF0070**
Feature Name:	Rocks
Description:	A concreted mass of stony material or coral which dries is awash or is below the water surface.
Feature Class:	Point, Polygon,
Possible Attribute:	Name (NAM), Category of Rock (COR), Category of Water Level (CWL)

HG - Depth Information

Feature Code:	**HG0010**
Feature Name:	Unsurveyed Area
Description:	An area where the determination of ocean depth is determined by estimation because survey data does not exist or very poor.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HG0020**
Feature Name:	Upright Sounding
Description:	Soundings compiled from smaller scale or unreliable source.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HG0030**
Feature Name:	Unsurveyed Depth Contour
Description:	A depth contour that is determined from points with no survey or very poor data.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**HG0040**
Feature Name:	Swept Area
Description:	An area swept by a towline or object below the surface to clear to a certain depth for the navigation safety.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HG0050**
Feature Name:	Sounding Depth
Description:	Depth obtained through sounding by means of any sounding equipments.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HG0060**
Feature Name:	Surveyed Depth Contour
Description:	Line containing point of the same depth with survey data.
Feature Class:	Line
Possible Attribute:	Name (NAM), Contour Line Index (CLI), Contour Line Type (CLT), Contour Line Value (CLV)

Feature Code:	**HG0070**
Feature Name:	Mud Line
Description:	Delineates an area of mud that covers and uncovers depending on the elevation of the surface above chart datum.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**HG0080**
Feature Name:	Sand Line
Description:	Delineates an area of sand that covers and uncovers depending on the elevation of the surface above chart datum.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**HG0090**
Feature Name:	Depth Area
Description:	Water area containing soundings within a defined range of values permanently at or below sounding datum.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

HH - Inland Water

Feature Code:	**HH0000**
Feature Name:	**Water Body**
Description:	An open body of water entirely surrounded by land either naturally formed or man made.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH),

Feature Code:	**HH0010**
Feature Name:	Dam
Description:	A barrier, together with appurtenant structures, constructed for the purposes of storage, control and diversion of water. A dam may be constructed across a natural watercourse or on the periphery of a reservoir.
Feature Class:	Point
Possible Attribute:	Name (NAM), Dam Usage (DMU), Dam Type (DMT), Dam Structures (DMS)

Feature Code:	**HH0020**
Feature Name:	Lake
Description:	A large inland body of water entirely surrounded by land either naturally formed or man made.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Authority (AUT)

Feature Code:	**HH0030**
Feature Name:	Reservoir
Description:	Body of water, either natural or artificial, used for storage regulation and control of water resources.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Custodian (CUS), Authority (AUT)

Feature Code:	**HH0040**
Feature Name:	River
Description:	A relatively large natural stream of water.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM)

Feature Code	**HH0041**
Feature Name	River Bank
Description	The edge of a relatively large natural stream of water
Feature Class	Line
Possible Attribute	Name (NAM)

Feature Code	**HH0042**
Feature Name	River Coverage
Description	An open body of water surrounded by river bank
Feature Class	Polygon
Possible Attribute	Name (NAM), Area Measured (m²)(ARM)

Feature Code:	**HH0050**
Feature Name:	Under Ground River
Description:	Stream that flow under the ground.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**HH0060**
Feature Name:	Old River Bed
Description:	An old course of river.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**HH0070**
Feature Name:	Island
Description:	A body of land completely surrounded by water or marsh.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**HH0080**
Feature Name:	Sand Bar
Description:	A mass of sand, gravel and/or other consolidated materials, which rises near, to, or above water level, often near the mouth of a river or at the approach to a harbour.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**HH0090**
Feature Name:	Salt Lick
Description:	An area where wildlife lick for salt.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**HH0100**
Feature Name:	Water Hole
Description:	A dip or hole in the surface of the ground in which water collects.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HH0110**
Feature Name:	Waterfall
Description:	A sudden, vertical or near vertical descent of water over a step or ledge in the bed of a river.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HH0120**
Feature Name:	Rapids
Description:	A fast flowing section of a watercourse generally with exposed rocks or boulders.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**HH0130**
Feature Name:	Natural Spring
Description:	A natural exit of water from the ground.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HH0140**
Feature Name:	Pool
Description:	Small areas of still water especially formed naturally or shallow patch of water or other liquid lying on a surface.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HH0150**
Feature Name:	Artificial Recharge Basin
Description:	A man made circular container used to reload and fill water.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HH0160**
Feature Name:	Tank
Description:	A fixed structure for storing liquids.
Feature Class:	Point
Possible Attribute:	Name (NAM), Tank Type (TAT), Tank Usage (TAU)

Feature Code:	**HH0170**
Feature Name:	Drain
Description:	Channel that carry away storm water to control flooding.
Feature Class:	Line
Possible Attribute:	Name (NAM), Drain Conveyance (DRV), Drain Usage (DRU), Drain Category (DRC), Drain Structure (DRS)

Feature Code	**HH0171**
Feature Name	Drain Edge
Description	Edge of drains that carry away storm water to control flooding.
Feature Class	Line
Possible Attribute	Name (NAM)

Feature Code	**HH0172**
Feature Name	Drain Coverage
Description	Area of the drain that falls within it edges.
Feature Class	Polygon
Possible Attribute	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HH0180**
Feature Name:	Irrigation Drain
Description:	Open earth/concrete channel that transport surplus water from the paddy plots to the river.
Feature Class:	Line
Possible Attribute:	Name (NAM), Irrigation Drain Category (IRC)

Feature Code	**HH0181**
Feature Name	Irrigation Drain Edge
Description	The edge of open earth/concrete drain that transport surplus water from the paddy plots to the river
Feature Class	Line
Possible Attribute	Name (NAM)

Feature Code	**HH0182**
Feature Name	Irrigation Drain Coverage
Description	Area of the drains that transport surplus water from the paddy plots to the river.
Feature Class	Polygon
Possible Attribute	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HH0190**
Feature Name:	Irrigation Canal
Description:	Open earth/concrete channel that transport irrigation water from the source to other locations transversing topographic features along the way.
Feature Class:	Line
Possible Attribute:	Name (NAM), Irrigation Canal Category (ICC)

Feature Code	**HH0191**
Feature Name	Irrigation Canal Edge
Description	The edge of open earth/concrete canal that transports irrigation water from the source to other locations transversing topographic features along the way.
Feature Class	Line
Possible Attribute	Name (NAM)

Feature Code	**HH0192**
Feature Name	Irrigation Canal Coverage
Description	An open body of water surrounded by irrigation Canal Edge.
Feature Class	Polygon
Possible Attribute	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**HH0200**
Feature Name:	Agricultural Drainage Drain
Description:	An open earth ditch/channel used to control the ground water table and transport surplus runoff water from an agricultural area to the river/sea.
Feature Class:	Line
Possible Attribute:	Name (NAM), Agricultural Drain Category (ADC), Agricultural Drainage Structures Purpose (ADS)

Feature Code:	**HH0210**
Feature Name:	Pond
Description:	An open body of water smaller than a lake which is either naturally formed or man made.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Pond Type (POT), Authority (AUT)

Feature Code:	**HH0220**
Feature Name:	Drain Structures
Description:	Structures constructed along drain alignment to facilitate the removal of excess stormwater in a drain.
Feature Class:	Point
Possible Attribute:	Name (NAM), Drainage Structures (DRS)

Feature Code:	**HH0225**
Feature Name:	Irrigation Drain Structures
Description:	Structures constructed along drain alignment in an irrigation scheme to regulate and remove excess water for paddy cultivation.
Feature Class:	Point
Possible Attribute:	Name (NAM), Irrigation Drain Structures (IRS)

Feature Code:	**HH0230**
Feature Name:	Irrigation Canal Structures
Description:	Structures constructed along canal alignment in an irrigation scheme to facilitate application of water for paddy cultivation.
Feature Class:	Point
Possible Attribute:	Name (NAM), Irrigation Canal Structure Purpose (ICS)

Feature Code:	**HH0240**
Feature Name:	Agricultural Drainage Structures
Description:	Wooden or reinforced concrete structures used to control the water in an agricultural area.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Agricultural Drainage Structures Purpose (ADS)

Feature Code:	**HH0250**
Feature Name:	Inland Flood Prone Area
Description:	An inland areas that are prone to flood in relation to the rainfall intensity and year of accurance.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code	**HH0260**
Feature Name	Wetland
Description	An area of land inundated temporarily or permanently with shallow water, usually slow moving or stationary that create growing conditions suitable for both emergent and other aquatic vegetation.
Feature Class	Polygon
Possible Attribute	Name (NAM), Area Measured (m^2) (ARM)

HJ - River Structure

Feature Code:	**HJ0010**
Feature Name:	Water Control Structure
Description:	A building or structure used to control the flow of water.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HJ0020**
Feature Name:	Riverbank Protection
Description:	Structures built alongside riverbanks to protect bank failure, erosion, etc.
Feature Class:	Line
Possible Attribute:	Name (NAM), Riverbank Protection Type (RPT)

Feature Code:	**HJ0030**
Feature Name:	Weir
Description:	A barrier constructed to control the flow or raise the level of water.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HJ0040**
Feature Name:	Fish Ladder
Description:	Structure built alongside river to allow fish to migrate upstream or downstream.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HJ0050**
Feature Name:	Riverlock
Description:	A dock in a river waterway permitting boats from one level to another.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HJ0060**
Feature Name:	Barrage
Description:	A barrier, provided with a series of gates, across the river to regulate water level upstream and also to control tidal influence.
Feature Class:	Point, Line
Possible Attribute:	Name (NAM)

Feature Code:	**HJ0070**
Feature Name:	Tidal Gate
Description:	A barrier similar to barrage but smaller in size specifically to control tidal influence.
Feature Class:	Point, Line
Possible Attribute:	Name (NAM)

Feature Code:	**HJ0080**
Feature Name:	**Gross Polutant Traps**
Description:	A devises used to intercept/trap gross litter, hydrocarbons and coarse solids.
Feature Class:	Point
Possible Attribute:	Name (NAM), Grass Polutant Type (GPT)

Feature Code:	**HJ0090**
Feature Name:	Culvert
Description:	A transverse drain or waterway structure that crosses beneath a road, railway, canal or through an embankment by means of a pipe or enclosed.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**HJ0100**
Feature Name:	River Groyne
Description:	A low artificial waal-like structure extending from the bank of the river in transverse direction to the current.
Feature Class:	Point
Possible Attribute:	River Groyne Type (RYT)

Feature Code	**HJ0110**
Feature Name	Drainage Gate
Description	Control device at drainage outlet to avoid backflow during high tides/ high flood levels at the receiving water bodies.
Feature Class	Point
Possible Attribute	Name (NAM), Drainage Gate (DRG)

HK – Offshore

Feature Code:	**HK0010**
Feature Name:	Offshore Lighting
Description:	A group of light located on the sea.
Feature Class:	Point
Possible Attribute:	Name (NAM), Light Characteristic Category (LCC)

Feature Code:	**HK0020**
Feature Name:	Offshore Platform
Description:	A flat surface raised above the sea used as a drilling, production or living quarters in offshore oil and gas operations.
Feature Class:	Polygon
Possible Attribute:	Name (NAM)

Feature Code:	**HK0030**
Feature Name:	Flare Stack
Description:	A tall structure used for burning off waste oil or gas.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code	**HK0040**
Feature Name	Sea Coverage
Description	An open body of water surrounded by shore line.
Feature Class	Polygon
Possible Attribute	Name (NAM), Area Measured (m^2) (ARM)

Feature Code	**HK0050**
Feature Name	Offshore Production Area
Description	An area at sea within which there are production facilities.
Feature Class	Polygon
Possible Attribute	Name (NAM), Offshore Production (OFP)

HL – Island

Feature Code:	**HL0010**
Feature Name:	Inland Island
Description:	A naturally formed area of land, surrounded by inland water, which is above water at high tide.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**HL0020**
Feature Name:	Coastal Island
Description:	A naturally formed area of land, surrounded by seawater within 3 nautical miles from the coastline, which is above water at high tide.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**HL0030**
Feature Name:	Offshore Island
Description:	A naturally formed area of land, surrounded by seawater beyond the State Territorial Water Boundary, which is above water at high tide.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

HM – Miscellaneous

Feature Code:	**HM0010**
Feature Name:	Hydrological Station
Description:	A hydrological station is a geographical location at which observations and measurements of hydrological parameters such as rainfall, evaporation, water level, stream flow, suspended sediment and water quality are made either manually by an observer, automatically recorded by a recorder or logged by a data logger. In addition, the station can be equipped with a telemetric system using telecommunication where data are collected, transmitted, recorded and displayed at the base station for flood forecasting and warning as well as drought monitoring purposes.
Feature Class:	Point
Possible Attribute:	Name (NAM), Hydrological Station Type (HST)

Feature Code	**HM0020**
Feature Name	Swamp
Description	Land that is always wet or covered with water
Feature Class	Polygon
Possible Attribute	Name (NAM), Area Measured (m^2) (ARM), Swamp Type (SWT)

Feature Code	**HM0030**
Feature Name	Water Flow
Description	Direction which the water flows
Feature Class	Point
Possible Attribute	Name (NAM)

R - HYPSOGRAPHY

RA - Relief Portrayal

Feature Code: **RA0010**
Feature Name: Contour Line
Description: An imaginary line formed by connecting points on earth surface having the same elevations.
Feature Class: Line
Possible Attribute: Name (NAM), Contour Line Type (CLT), Contour Line Index (CLI), Contour Line Value (CLV)

Feature Code: **RA0020**
Feature Name: Valley Bottom Line
Description: A line representation of the lowest part of a valley.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **RA0030**
Feature Name: Breakline
Description: A line representing the demarcation of a sudden and significant change in the gradient of the terrain relief.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **RA0040**
Feature Name: Inland Water Elevation
Description: A location with a generalised elevation value relative to a vertical datum associated with an inland, usually confined, water body.
Feature Class: Point
Possible Attribute: Name (NAM)

Feature Code: **RA0050**
Feature Name: Pinnacle
Description: A small turret or spire usually ending in a pyramid or cone, crowning a buttress.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **RA0060**
Feature Name: Cliff Precipitous
Description: A high, steep face of rock.
Feature Class: Line, Polygon
Possible Attribute: Name (NAM), Portion Class (RPS)

Feature Code: **RA0061**
Feature Name: Cliff Area
Description:
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**RA0070**
Feature Name:	Cutting
Description:	An excavated channel through high ground.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Portion Class (RPS)

Feature Code:	**RA0071**
Feature Name:	Cutting Area
Description:	
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**RA0080**
Feature Name:	Embankment
Description:	An earth or concrete bank for keeping back water, or for carrying a road or railway or for protecting adjacent land from inundation by flood water.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Embankment Purpose (EMP), Portion Class (RPS)

Feature Code:	**RA0081**
Feature Name:	Embankment Area
Description:	
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**RA0090**
Feature Name:	Ridge
Description:	A long narrow hilltop, mountain range or watershed.
Feature Class:	Line
Possible Attribute:	Name (NAM), Ridge Type (RIT)

Feature Code:	**RA0100**
Feature Name:	Spot Height
Description:	Locations where height has been determined with respect to a vertical datum.
Feature Class:	Point
Possible Attribute:	Name (NAM), Spot Height Value (SHV)

Feature Code:	~~**XA0010**~~ **RA0110**
Feature Name:	Disturbed Soil
Description:	An area that has been so disturbed by human activity that no single soil type can be accurately identified. These areas may include built-up areas, strip mines, landfills, railroad yards, etc.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	~~XA0020~~ **RA0120**
Feature Name:	Slope Polygon
Description:	An area enclosing a group of slope values falling within a set range.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Route Number (RTN), Length (LEN), Slope Designation (SLD),Type of Berm (TBE), Nos of Berm (NBE)

Feature Code:	~~XA0030~~ **RA0130**
Feature Name:	Aspect Polygon
Description:	An area enclosing a group of aspect values falling within a set range.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

S - SOIL

Feature Code: **S00000**
Feature Name: SOIL
Description: Soil is a natural body consisting of layers (soil horizons) comprised of solids (minerals and organic matter), liquid, and gases which differ from their parent materials in their texture, structure, consistency, color, chemical, biological and other characteristics. It is the unconsolidated or loose covering of fine rock particles that covers the surface of the earth. Soil is the end product of the influence of the climate (temperature, precipitation), relief (slope), organisms (flora and fauna), parent materials (original minerals), and time.
Feature Class: Polygon
Possible Attribute: Area Measured in Hectares (ARH)

SA - Histosols

Feature Code: **SA0000**
Feature Name: HISTOSOL
Description: Soils that are organic in (a) more than half the thickness of the upper 81 cm or (b) at least in two-thirds of the soil depth to lithic or paralithic contact
Feature Class: Polygon
Possible Attribute: Label(LBL), Area Measured in Hectares(ARH)

Feature Code: **SA1001**
Feature Name: BAKRI series
Description: Soil derived from organic deposit (swamp peat),shallow, dominantly hemic material overlying sulfidic marine clay, very poorly drained
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: **SA1002**
Feature Name: BAYAS series
Description: Soil derived from organic deposit (swamp peat), deep, dominantly hemic material overlying fibric/woody material, very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of

Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: **SA1003**
Feature Name: CANGKAT LOBAK series
Description: Soil derived from organic deposit (swamp peat), shallow, dominantly fibric/woody material overlying riverine clay, very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares (ARH)

Feature Code: SA1004
Feature Name: GALI series
Description: Soil derived from organic deposit (swamp peat), shallow, dominantly hemic material overlying riverine clay, very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA1005
Feature Name: GONDANG series
Description: Soil derived from organic deposit (swamp peat), deep, dominantly hemic material overlying riverine clay, very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SA1006
Feature Name:	LINGGI series
Description:	Soil derived from organic deposit (swamp peat), shallow, dominantly sapric material overlying non sulfidic clay, very poorly drained
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SA1007
Feature Name:	NIPIS series
Description:	Soil derived from organic deposit (swamp peat), shallow, dominantly sapric material overlying non sulfidic clay, very poorly drained.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SA1008
Feature Name:	PAK BONG series
Description:	Soil derived from organic deposit (swamp peat), shallow, dominantly hemic material overlying riverine sandy, very poorly drained
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA1009
Feature Name: PENOR series
Description: Soil derived from organic deposit (swamp peat), shallow, dominantly hemic material overlying riverine sandy, very poorly drained.
Feature Class: Polygon,
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA1010
Feature Name: SALLEH series
Description: Soil derived from organic deposit (swamp peat), deep, dominantly fibric/woody material overlying riverine clay, very poorly drained
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA1011
Feature Name: TASIK series
Description: Soil derived from organic deposit (swamp peat),moderately to deep, dominantly hemic material overlying riverine clay, very poorly drained
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA1012
Feature Name: TELOK BULOH series
Description: Soil derived from organic deposit (swamp peat), moderately deep, dominantly sapric material overlying non sulfidic marine clay, very poorly drained

Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2000
Feature Name: KAPOR series
Description: Soil derived from organic deposit (peat forest), shallow, dominantly sapric material (low ash content) overlying limestone, well drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2001
Feature Name: MELINAU series
Description: Soil derived from organic deposit (peat forest), shallow, dominantly sapric material (high ash content) overlying limestone, well drained
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2010
Feature Name: MULU series
Description: Soil derived from organic deposit (mossy-montane forest), shallow,dominantly hemic/sapric material (low ash) overlying limestone, well drained (unsaturated).
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS),

Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2020
Feature Name: BAREO series
Description: Soil derived from organic deposit (highland peat forest), moderately deep,dominantly hemic/sapric material (low ash) overlying clay, very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2021
Feature Name: UMOR series
Description: Soil derived from organic deposit (woody montane forest), shallow,dominantly hemic/sapric material (low ash content), very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2030
Feature Name: IGAN series
Description: Soil derived from organic deposit, shallow, dominantly hemic/sapric material (low ash content) overlying non sulfidic marine sand, very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile

Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2040
Feature Name: MUKAH series
Description: Soil derived from in-situ organic deposit, shallow, dominantly hemic material (low ash content) overlying non sulfidic marine clay , very poorly drained,
coastal and inland swamps
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2041
Feature Name: EPAI series
Description: Soil derived from in-situ organic deposit, shallow, dominantly hemic/sapric material (high ash content) overlying non sulfidic marine clay , very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2060
Feature Name: MERAPOK series
Description: Soil derived from organic deposit, shallow, dominantly hemic/sapric material (high ash content) overlying sulfidic marine clay, very poorly drained, coastal peat swamp.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC),

Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2061
Feature Name: PATOK series
Description: Soil derived from organic deposit, shallow, dominantly hemic/sapric material (low ash content) overlying sulfidic marine clay, very poorly drained, coastal peat swamp
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2062
Feature Name: MAHAT series
Description: Soil derived from transported organic deposit, shallow, dominantly hemic/sapric material overlying sulfidic marine clay, very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA2080
Feature Name: ANDERSON series
Description: Soil derived from insitu organic deposit (peat swamp forest), deep, dominantly fibric/hemic (low ash content) material overlying non sulfidic clay/sand, very poorly drained, inland or coastal peat.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil

	Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)
Feature Code:	SA2081
Feature Name:	GADONG series
Description:	Soil derived from organic deposit (peat swamp forest), deep, dominantly fibric/hemic (high ash content) material overlying non sulfidic clay/sand , very poorly drained
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)
Feature Code:	SA2082
Feature Name:	LUK series
Description:	Soil derived from transported organic deposit, deep, dominantly fibric/hemic material overlying any type of stratum,very poorly drained
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)
Feature Code:	SA3000
Feature Name:	KLIAS series
Description:	A very deep peat soil, dominantly fibric/woody material overlying marine clay, very poorly drained.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of

Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA3010
Feature Name: MENGALUM series
Description: Soil derived from organic deposit (swamp peat),moderately deep, dominantly fibric material overlying marine sand, high base saturation, very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA3020
Feature Name: ARANG series
Description: Soil derived from organic deposit (swamp peat), moderately deep, dominantly hemic material overlying marine sulfidic clay, very poorly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SA3030
Feature Name: KIANTANO series
Description: Soil derived from organic deposit (swamp peat), moderately deep, dominantly sapric material overlying acid igneous rock, imperfectly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil

Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

SB – SPODOSOLS

Feature Code: SB0000
Feature Name: SPODOSOLS
Description: Mineral soils without a plaggen, argillic or kandic horizon but with an illuvial spodic horizon within 2 meters of the soil surface.
Feature Class: Polygon
Possible Attribute: Label (LBL), Area Measured in Hectares (ARH)

Feature Code: SB1001
Feature Name: CHERATING series
Description: Soil developed on beach ridges, sandy, with wavy fragmented spodic horizon, somewhat excessively drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB1002
Feature Name: JAMBU series
Description: Soil developed on beach ridges, sandy, with albic horizon, excessively drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB1003
Feature Name: RHU TAPAI series
Description: Soil developed on beach ridges, sandy, with strongly cemented spodic horizon, moderately well drained, shallow profile.
Feature Class: Polygon

Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB1004
Feature Name: RU DUA series
Description: Soil developed on beach ridges, sandy, with strongly cemented spodic horizon, somewhat excessively drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB1005
Feature Name: RUSILA series
Description: Soil developed on beach ridges, sandy to clayey, grayish in colour, very poorly drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB1006
Feature Name: TANAH RATA series
Description: Soil derived from granite rock, with histic epipedon (sapric) and a thin, brownish in colour, weakly cemented spodic horizon, well drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS),

Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB2000
Feature Name: GRANG series
Description: Soil developed on waterlogged terraces, presence of thin histic layer, spodic horizon, sandy texture, poorly drained, found in lowland area.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB2001
Feature Name: PENIAN series
Description: Soil developed on waterlogged terraces, spodic horizon, sandy texture, poorly drained, found in lowland area.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB2010
Feature Name: JERIJEH series
Description: Soil developed on terraces, strongly cemented spodic horizon (iron rich),well drained, found at low to moderately high land area.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil

Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB2011
Feature Name: STOH series
Description: Soil developed on terraces, sandy, presence of weakly cemented spodic horizon (iron rich),well drained, found at moderately highland area
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB2020
Feature Name: BUSO series
Description: Soil developed on terraces, sandy, presence of weakly cemented spodic horizon (humus rich), well drained, found at low to moderately highland area
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB2021
Feature Name: SILANTEK series
Description: Residual soil, sandy, soil, presence of weakly cemented spodic horizon (humus rich), well drained, found at low to moderately highland area
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil

Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB2030
Feature Name: MIRI series
Description: Soil developed on terraces, sandy, presence of strongly cemented spodic horizon (humus rich), well drained, found at low to moderately highland area
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB2031
Feature Name: BAKO series
Description: Residual soil, sandy textured, presence of strongly cemented spodic horizon (humus rich), well drained, present at low to moderately highland area
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB3000
Feature Name: SIBUGA series
Description: Soil derived from sandstone, grayish in colour, sandy, non-indurated spodic horizon, well to excessively drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base

saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB3010
Feature Name: SILIMPOPON series
Description: Soil formed on terrace alluvium, grayish in colour, sandy, strongly cemented spodic horizon, well to excessively drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB3020
Feature Name: KARAMATOI series
Description: Soil formed on beach ridges, grayish in colour, sandy, weakly cemented spodic horizon, moderately well to excessively drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB3030
Feature Name: BAIAYO series
Description: Soil formed on terrace alluvium, red-yellow in colour, sandy, strongly cemented spodic horizon, imperfectly drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB3040
Feature Name: PA SIA series
Description: Soil derived from sandstone and mudstone, grayish in colour, sandy, non-indurated spodic horizon, somewhat poorly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SB3050
Feature Name: MESILAU series
Description: Soil derived from granodiorite, grayish in colour, fine clayey, thin iron pan in or above spodic horizon, moderately well drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

SC – ANDISOLS

Feature Code: SC0000
Feature Name: ANDISOLS
Description: Other soils that have andic soil properties in 60 percent or more of the soil from the surface to 60cm or lithic or paralithic contact, formed from mostly volcanic ejecta with bulk densitied below 0.90Mg/m3
Feature Class: Polygon
Possible Attribute: Label (LBL), Area Measured in Hectares (ARH)

Feature Code: SC2001
Feature Name: LINAU series
Description: Residual soilfrom volcanic ash, andic soil properties,over lithic or paralithic contact, bulk density less 0.90Mg/m^3
Feature Class: Polygon

Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

SD – OXISOLS

Feature Code: SD0000
Feature Name: OXISOLS
Description: Other soils with (a) an oxic horizon top within 150cm or (b) 40 percent or more clay within 18 cm and a kandic horizon with weatherable mineral properties of an oxic horizon, with upper boundary within 100 cm of soil surface
Feature Class: Polygon
Possible Attribute: Label (LBL), Area Measured in Hectares (ARH)

Feature Code: SD1001
Feature Name: BESERAH series
Description: Soil derived from granite rock, brownish in colour, clayey skeletal, somewhat excessively drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD1002
Feature Name: GADING series
Description: Soil derived from granite rock, brownish in colour, fine loamy, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of

Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD1003
Feature Name: GOH series
Description: Soil derived from basalt rock, brownish in colour, clayey, somewhat excessively drained, moderately deep profile..
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD1004
Feature Name: JABOR series
Description: Soil derived from basalt rock, brownish in colour, clayey, somewhat excessively drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD1005
Feature Name: JERANGAU series
Description: Soil derived from granodiorite rock, brownish in colour, clayey, somewhat excessively drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD1006
Feature Name: KAMPONG KOLAM series
Description: Soil derived from granodiorite rock, reddish in colour, clayey, somewhat excessively drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD1007
Feature Name: KATONG series
Description: Soil derived from andesite rock, brownish in colour, clayey, somewhat excessively drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD1008
Feature Name: KAWAH series
Description: Soil derived from reworked materials, reddish in colour, clayey, abundant mixed gravels, somewhat excessively drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD1009
Feature Name:	KODIANG series
Description:	Soil derived from limestone and calcareous materials, reddish in colour, very fine clay, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD1010
Feature Name:	KUANTAN series
Description:	Soil derived from basalt rock, brownish in colour, very fine clay, somewhat excessively drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD1011
Feature Name:	MELAKA series
Description:	Soil derived from reworked materials, reddish in colour, clayey, abundant stones and boulders, somewhat excessively drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD1012
Feature Name: MUNCHUNG series
Description: Soil derived from schist rock, brownish in colour, clayey, somewhat excessively drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD1013
Feature Name: PATANG series
Description: Soil derived from hornsfel rock, reddish in colour, clayey, somewhat excessively drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD1014
Feature Name: PRANG series
Description: Soil derived from schist/shale rock, reddish in colour, clayey, somewhat excessively drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD1015
Feature Name:	SAGU series
Description:	Soil derived from limestone and calcareous materials, reddish in colour, very fine clay, high base saturation, presence of thin manganese nodules, somewhat excessively drained, oxic horizon, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD1016
Feature Name:	SEGAMAT series
Description:	Soil derived from andesite rock, reddish in colour, clayey, somewhat excessively drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD1017
Feature Name:	SUNGAI MAS series
Description:	Soil derived from serpentinite rock, reddish in colour, clayey, somewhat excessively drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD1018
Feature Name:	TANDAK series
Description:	Soil derived from reworked materials, reddish in colour, clayey, abundant stones and gravels, somewhat excessively drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD1019
Feature Name:	TANGGA series
Description:	Soil derived from limestone and calcareous materials, strong brown in colour, very fine clay, somewhat excessively drained, oxic horizon,deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD1020
Feature Name:	TERSAT series
Description:	Soil derived from granite rock, brownish in colour, clayey, somewhat excessively drained, ,deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD1021
Feature Name:	TUNGGAL series
Description:	Soil derived from reworked materials, reddish in colour, clayey, abundant mixed gravels, somewhat excessively drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD2000
Feature Name:	TARAT series
Description:	Residual soil derived insitu from intermediate to basic igneous rock, very fine clay, dark red coloured soil matrix
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD2001
Feature Name:	JEBONG series
Description:	Residual soil derived insitu from intermediate to basic igneous rock,very fine clay, red coloured soil matrix.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD2002
Feature Name: ANTAYAN series
Description: Residual soil derived insitu from intermediate to basic igneous rock, very fine clay, yellow coloured soil matrix.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD2020
Feature Name: LINGGA series
Description: Residual soil derived insitu from acid igneous or sedimentary rock, fine clay, pallid coloured soil matrix.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD2021
Feature Name: RUKAM series
Description: Residual soil derived insitu from acid igneous or sedimentary rock, fine clay, yellow-pallid coloured soil matrix.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD2022
Feature Name: SERIN series
Description: Residual soil derived insitu from acid igneous or sedimentary rock, fine clay, yellow-pallid coloured soil matrix.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD2023
Feature Name: JAGOI series
Description: Residual soil derived insitu from acid igneous to sedimentary rock, fine clay, red coloured soil matrix.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD2024
Feature Name: NYAROH series
Description: Residual soil derived insitu from acid igneous or sedimentary rock, very fine clay, yellow coloured soil matrix
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD2025
Feature Name:	PIRING series
Description:	Residual soil derived insitu from acid igneous or sedimentary rock.Very fine clay, dark red to red coloured soil matrix.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD2030
Feature Name:	GADING series
Description:	Residual soil derived insitu from acid igneous rock, fine loamy to fine silty, red coloured soil matrix.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD2040
Feature Name:	NIBONG series
Description:	Residual soil derived insitu from acid volcanic rock, very fine clay, yellow coloured soil matrix.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD2041
Feature Name: MUJAN series
Description: Residual soil derived insitu from acid volcanic rock, fine clay, yellow coloured soil matrix.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD2042
Feature Name: UJEK series
Description: Residual soil derived insitu from acid volcanic rock, fine clay, reddish coloured soil matrix.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD2043
Feature Name: SELIO series
Description: Residual soil derived in situ from acid volcanic rock, very fine clay, pallid coloured soil matrix.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD3000
Feature Name: AMBUN series
Description: Soil derived from ultrabasic igneous rock, brownish in colour, very fine clayey, well drained, very deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD3010
Feature Name: NOBUSU series
Description: Soil formed on alluvium derived from ultrabasic igneous rock, reddish in colour, very fine clayey, well drained, very deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD3020
Feature Name: TABLE series
Description: Soil derived from basalt, reddish in colour, very fine clayey, well drained, very deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD3030
Feature Name:	PINANAKAN series
Description:	Soil derived from serpentinite rock, reddish brown in colour, very fine clayey, well drained, very deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD3040
Feature Name:	APAS series
Description:	Soil derived from volcanic ash rock, reddish in colour, fine clayey, well drained, very deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SD3050
Feature Name:	BENUOU series
Description:	Soil formed on alluvium derived from shale and sandstone, reddish in colour, fine loamy, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD3060
Feature Name: JARANGAN series
Description: Soil derived from basalt, brownish in colour, very fine clayey, well drained, very deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SD3070
Feature Name: TUNGAU series
Description: Soil formed on alluvium derived from sedimentary rock, yellowish in colour, fine clayey, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

SE – VERTISOLS

Feature Code: SE0000
Feature Name: VERTISOLS
Description: Other soil that has slickenslides or wedge-shaped peds with more than 30 percent clay to the depth of 50 cm or densic, lithic or paralithic contact if shallower and cracks that open and close periodically (usually montmorillonite clays)
Feature Class: Polygon
Possible Attribute: Label (LBL), Area Measured in Hectares (ARH)

Feature Code: SE1001
Feature Name: CHENGAI series
Description: Soil derived from marine alluvium, gray in colour, clayey, dominantly red mottles, presence of gypsum, poorly drained, deep profile

Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SE1002
Feature Name:	ROTAN series
Description:	Soil derived from marine alluvium, olive gray in colour, clayey, dominantly brown/yellow mottles, presence of slickenside, poorly drained, shallow profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SE1003
Feature Name:	TEBENGAU series
Description:	Soil derived from marine alluvium, greenish gray in colour, clayey, dominantly brown/yellow mottles, presence of slickenside, poorly drained, shallow profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

SF – ULTISOLS

Feature Code:	SF0000
Feature Name:	ULTISOLS
Description:	Other soils with an argillic (or kandic) horizon, base saturation < 35 percent, and enough moisture for crops in most years
Feature Class:	Polygon
Possible Attribute:	Label LBL), Area Measured in Hectares (ARH)

Feature Code:	SF1001
Feature Name:	ALMA series
Description:	Soil derived from sub recent alluvium, brownish in colour, clayey, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1002
Feature Name:	APEK series
Description:	Soil derived from iron poor sandy shale, yellowish in colour, fine loamy, moderately well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1003
Feature Name:	ASAHAN series
Description:	Soil derived from shale, brownish in colour, common plinthite, clayey with high fine silt, moderately well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC),

Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares (ARH)

Feature Code: SF1004
Feature Name: AWANG series
Description: Soil derived from sub recent alluvium, brownish in colour, fine loamy, slightly gravelly, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1005
Feature Name: BADAK series
Description: Soil derived from sub recent alluvium, grayish in colour, gravelly, poorly to somewhat poorly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1006
Feature Name: BALING series
Description: Soil derived from older alluvium (granite), brownish in colour, clayey, few plinthite, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type

(STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1007
Feature Name: BATANG MERBAU series
Description: Soil derived from quartz mica schist, brownish in colour, clayey, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1008
Feature Name: BATU ANAM series
Description: Soil derived from iron poor shale, pale brown in colour; clayey with high fine silt, somewhat imperfectly drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1009
Feature Name: BATU HITAM series
Description: Soil derived from recent riverine alluvium, grayish in colour, clayey with high silt, somewhat poorly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil

Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1010
Feature Name: BATU LAPAN series
Description: Soil derived from laterised shale, brownish in colour; clayey, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1011
Feature Name: BEDUP series
Description: Soil derived from shale, brownish in colour; clayey with high fine silt, moderately well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1012
Feature Name: BELADING series
Description: Soil derived from sub recent alluvium, brownish in colour, very fine, compact and prismatic structures with high base saturation, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base

saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares (ARH)

Feature Code: SF1013
Feature Name: BERA series
Description: Soil derived from reworked materials, brownish in colour, coarse loamy, abundant rounded gravels, somewhat imperfectly drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1014
Feature Name: BERTAM series
Description: Soil derived from sub recent alluvium, dull in colour, clayey, less plinthite, somewhat poorly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1015
Feature Name: BUDU series
Description: Soil derived from older alluvium, brownish in colour, clayey, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1016
Feature Name: BUKIT AJIL series
Description: Soil derived from granodiorite rock, reddish in colour, clayey well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1017
Feature Name: BUKIT TEMIANG series
Description: Soil derived granite rock, reddish in colour, clayey, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1018
Feature Name: BUKIT TUKU series
Description: Soil derived from sub recent alluvium, brownish in colour, fine loamy, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1019
Feature Name: BUNGOR series
Description: Soil derived from shale, brownish in colour; clayey, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1020
Feature Name: CHAT series
Description: Soil derived from shale, brownish in colour; clayey, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1021
Feature Name: CHEMPAKA series
Description: Soil derived from recent riverine alluvium, brownish in colour, clayey, moderately well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1022
Feature Name: CHENIAN series
Description: Soil derived from quartz porphyry igneus rock, brownish in colour, clayey, high fine silt, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1023
Feature Name: CHERANG HANGUS series
Description: Soil derived from sub recent alluvium, grayish in colour, clayey, poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1024
Feature Name: CHUKAI SERIES
Description: Soil derived from older alluvium, brownish in colour, fine loamy, few plinthite, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1025
Feature Name:	CHANGLOON series
Description:	Soil derived from reworked materials, brownish in colour, clayey, abundant rounded gravels, somewhat imperfectly drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1026
Feature Name:	CHUPING series
Description:	Soil derived from reworked materials, brownish in colour, fine loamy, abundant rounded gravels, somewhat imperfectly drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1027
Feature Name:	DAMPAR series
Description:	Soil derived from reworked materials, brownish in colour, fine loamy, abundant rounded gravels, moderately well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1028
Feature Name: DURIAN series
Description: Soil derived from shale, brownish in colour; clayey with high fine silt, moderately well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1029
Feature Name: GAJAH MATI series
Description: Soil derived from reworked materials, brownish in colour, clayey, abundant mixed gravels, well drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1030
Feature Name: GOL series
Description: Soil derived from shale, brownish in colour, clayey, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1031
Feature Name: GONG CHENAK series
Description: Soil derived from sub recent alluvium, brownish in colour, clayey, imperfectly to somewhat imperfectly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1032
Feature Name: HARAD series
Description: Soil derived from granite rock, reddish in colour, clayey, high fine silt, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1033
Feature Name: HARIMAU series
Description: Soil derived from older alluvium (granite), brownish in colour, clayey, few plinthite, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1034
Feature Name: HOLYROOD series
Description: Soil derived from sub recent alluvium, brownish in colour, fine loamy, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1035
Feature Name: HUTAN series
Description: Soil derived from sub recent alluvium, grayish in colour, clayey, common plinthite, somewhat poorly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1036
Feature Name: IBOK series
Description: Soil derived from older alluvium, brownish in colour, coarse loamy, few plinthite, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1037
Feature Name:	JAYA series
Description:	Soil derived from carbonaceous shale, yellowish in colour, clayey, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1038
Feature Name:	JELUTONG series
Description:	Soil derived from sub recent alluvium, gray in colour, very fine, very poorly to somewhat very poorly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1039
Feature Name:	JEMPOL
Description:	Soil derived from tuffaceous materials, reddish in colour; clayey, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1040
Feature Name:	JERAM series
Description:	Soil derived from tuffaceous materials, reddish in colour; clayey, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1041
Feature Name:	JERKOH series
Description:	Ultisols; HGMR & igneus rock (mixed); fine sandy clay loam; yellowish brown; argillic; shallow; well drained; low base saturation
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1042
Feature Name:	JERNEH series
Description:	Soil derived from older alluvium, brownish in colour, fine loamy, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1043
Feature Name: JITRA series
Description: Soil derived from reworked materials, reddish in colour, clayey, abundant mixed gravels, well drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1044
Feature Name: JUARA series
Description: Soil derived from sandstone, reddish in colour, fine loamy,high base saturation, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1045
Feature Name: KABU series
Description: Soil derived from reworked materials, brownish in colour, clayey, abundant rounded gravels, somewhat imperfectly drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1046
Feature Name:	KAMPONG PUSU series
Description:	Soil derived from sub recent alluvium, grayish in colour, clayey, somewhat poorly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1047
Feature Name:	KASAH series
Description:	Soil derived from tuffaceous materials, reddish in colour; clayey, high fine silt, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1048
Feature Name:	KAWANG series
Description:	Soil derived from older alluvium, reddish in colour, clayey, well drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1049
Feature Name: KAYA series
Description: Soil derived from recent riverine alluvium, yellowish in colour, fine loamy, and imperfectly to somewhat imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1050
Feature Name: KECHOR series
Description: Soil derived from sub recent alluvium, yellowish in colour, clayey, moderately well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1051
Feature Name: KEDAH series
Description: Soil derived from conglomerates, brownish in colour, fine loamy, well drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1052
Feature Name:	KEKURA series
Description:	Soil derived from sandstone, brownish in colour, fine loamy, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1053
Feature Name:	KELAU series
Description:	Soil derived from older alluvium (granite), brownish in colour, clayey, few plinthite, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1054
Feature Name:	KELEDANG series
Description:	Soil derived from conglomerates, brownish in colour, fine loamy, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1055
Feature Name:	KEMAHANG series
Description:	Soil derived from conglomerates, brownish in colour, fine loamy, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1056
Feature Name:	KEMASUL series
Description:	Soil derived from shale, reddish in colour, clayey, abundant plinthite , well drained, deep profile..
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1057
Feature Name:	KEMUNING series
Description:	Soil derived from carbonaceous shale, brownish in colour, clayey, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1058
Feature Name:	KENING series
Description:	Soil derived from older alluvium, reddish in colour, clayey, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1059
Feature Name:	KEPAYANG series
Description:	Soil derived from basalt rock, reddish in colour, clayey, somewhat excessively drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1060
Feature Name:	KERAIT series
Description:	Soil derived from iron poor shale, yellowish in colour, clayey, somewhat imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1061
Feature Name:	KERAYONG series
Description:	Soil derived from sub recent alluvium, brownish in colour, clayey, moderately well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange

Feature Code:	SF1062
Feature Name:	KETAK series
Description:	Soil derived from conglomerates, brownish in colour; clayey , well drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1063
Feature Name:	KOMEL series
Description:	Soil derived from tuffaceous material, reddish in colour; clayey, high base saturation, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1064
Feature Name: KUAH series
Description: Soil derived from shale, brownish in colour; clayey, well drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1065
Feature Name: KUALA BRANG series
Description: Soil derived from shale, brownish in colour; clayey, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1066
Feature Name: KULAI series
Description: Soil derived from rhyolite rock, yellowish in colour; clayey, high fine silt , well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1067
Feature Name:	LAKA series
Description:	Soil derived from sandstone, reddish in colour, fine loamy, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1068
Feature Name:	LALAT series
Description:	Soil derived from shale, yellowish in colour; clayey with high fine silt, moderately well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH))

Feature Code:	SF1069
Feature Name:	LALANG series
Description:	Soil derived from granite rock, brownish in colour; fine loamy, well drained, shallow profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH))

Feature Code:	SF1070
Feature Name:	LAMBAK series
Description:	Soil derived from granite rock, reddish in colour; clayey skeletal, well drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1071
Feature Name:	LANAS series
Description:	Soil derived from reworked materials, brownish in colour, fine loamy, abundant mixed gravels, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1072
Feature Name:	LANCHANG series
Description:	Soil derived from granodiorite rock, brownish in colour; clayey , well drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1073
Feature Name:	LANGKAWI series
Description:	Soil derived from limestone and calcareous materials, reddish in colour, very fine clay, somewhat excessively drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1074
Feature Name:	LATING series
Description:	Soil derived from recent riverine alluvium, brownish in colour, clayey, imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1075
Feature Name:	LINTANG series
Description:	Soil derived from sub recent alluvium, brownish in colour, coarse loamy, moderately well to well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1076
Feature Name:	LOK YANG series
Description:	Soil derived from shale, reddish in colour; clayey with high fine silt, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1077
Feature Name:	LUBUK KIAT series
Description:	Soil derived from sub recent alluvium, brownish in colour, clayey, common plinthite, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1078
Feature Name:	LUNDANG series
Description:	Soil derived from recent riverine alluvium, brownish in colour, clayey with manganese nodules, moderately well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1079
Feature Name:	MAI series
Description:	Soil derived from tuffaceous material, reddish in colour; clayey, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1080
Feature Name:	MALAU series
Description:	Soil derived from sandstone, brownish in colour, coarse loamy, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1081
Feature Name:	MARANG series
Description:	Soil derived from iron poor sandy shale, yellowish in colour, fine loamy, moderately well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1082
Feature Name:	MASAI series
Description:	Soil derived from laterised parent material, brownish in colour, clayey skeletal, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1083
Feature Name:	MEDANG series
Description:	Soil derived from recent riverine alluvium, brownish in colour, clayey, somewhat imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1084
Feature Name:	MERANTI series
Description:	Soil derived from recent riverine alluvium, brownish in colour, clayey with high silt, somewhat imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1085
Feature Name:	MUKUT series
Description:	Soil derived from mixed parent material, reddish in colour, clayey skeletal, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1086
Feature Name:	MUSANG series
Description:	Soil derived from shale, brownish in colour; clayey with high fine silt, well drained, deep profile..
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1087
Feature Name:	NAM HENG series
Description:	Soil derived from older alluvium (shale), reddish in colour, clayey, common to many plinthite, well drained, moderately deep profile..
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1088
Feature Name: NAMI series
Description: Soil derived from sandstone, brownish in colour, fine loamy, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1089
Feature Name: NANGKA series
Description: Soil derived from sub recent alluvium, brownish in colour, coarse loamy, moderately well to well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1090
Feature Name: NAPAI series
Description: Soil derived from reworked materials, reddish in colour, clayey, abundant rounded gravels, well drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1091
Feature Name:	NERANG series
Description:	Soil derived from reworked materials, brownish in colour, fine loamy, abundant mixed gravels, well drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1092
Feature Name:	NERING series
Description:	Soil derived from granite rock, reddish in colour, clayey, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1093
Feature Name:	PADANG BESAR series
Description:	Soil derived from laterised shale, brownish in colour; clayey, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1094
Feature Name:	PAGI series
Description:	Soil derived from shale having moderately deep profile,reddish coloured,clayey with high fine silt.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1095
Feature Name:	PEDU series
Description:	Soil derived from reworked materials, brownish in colour, fine loamy, abundant mixed gravels, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1096
Feature Name:	PELANDUK series
Description:	Soil derived from sub recent alluvium, grayish in colour, clayey, common plinthite, imperfectly to somewhat imperfectly drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1097
Feature Name:	PELEPAH series
Description:	Soil derived from laterised parent materials, brownish in colour, clayey, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1098
Feature Name:	PENGERANG series
Description:	Soil derived from schist rock, brownish in colour, clayey skeletal, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1099
Feature Name:	PENUBA series
Description:	Soil derived from granite rock, reddish in colour, clayey, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1100
Feature Name:	PEYABONG series
Description:	Soil derived from rhyolite rock, yellowish in colour, clayey, high fine silt, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1101
Feature Name:	POHOI series
Description:	Soil derived from carbonaceous shale, yellowish in colour; clayey, moderately well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1102
Feature Name:	POKOK SENA series
Description:	Soil derived from reworked materials, brownish in colour, clayey, abundant rounded gravels, somewhat imperfectly drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1103
Feature Name:	RASAU series
Description:	Soil derived from sub recent alluvium, brownish in colour, fine oamy, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1104
Feature Name:	RENGAM series
Description:	Soil derived from granite rock, brownish in colour, clayey, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1105
Feature Name:	RINGLET series
Description:	Highland; fine sandy clay loam; yellowish red; argillic; deep; well drained; low base saturation.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1106
Feature Name:	SEMBERIN series
Description:	Soil derived from reworked materials, brownish in colour, clayey, abundant rounded gravels, imperfectly drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1107
Feature Name:	SENAI series
Description:	Soil derived from gabbro rock, brownish in colour, clayey, somewhat excessively drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1108
Feature Name:	SENGGORA series
Description:	Soil derived from tuffaceous material, reddish in colour; clayey, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1109
Feature Name:	SERDANG series
Description:	Soil derived from sandstone, brownish in colour, fine loamy, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1110
Feature Name:	SEREMBAN series
Description:	Soil derived from laterised shale, reddish in colour; clayey, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1111
Feature Name:	SEROK series
Description:	Soil derived from sub recent alluvium, brownish in colour, very fine loamy, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1112
Feature Name:	SITIAWAN series
Description:	Soil derived from sub recent alluvium, yellowish in colour, very fine, moderately well to well drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1113
Feature Name:	SOGOSMANA series
Description:	Soil derived from sub recent alluvium, grayish in colour, very fine, poorly to somewhat poorly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1114
Feature Name:	TAI TAK series
Description:	Soil derived from granite rock, brownish in colour, clayey, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1115
Feature Name: TAMPIN series
Description: Soil derived from granite rock, yellowish in colour, clayey, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1116
Feature Name: TAMPOI series
Description: Soil derived from older alluvium, reddish in colour, clayey, few plinthite, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1117
Feature Name: TAVY series
Description: Soil derived from reworked materials, brownish in colour, clayey, abundant stones and gravels, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1118
Feature Name: TAWAR series
Description: Soil derived from sub recent alluvium, brownish in colour, clayey, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1119
Feature Name: TEBOK series
Description: Soil derived from sub recent alluvium, brownish in colour, clayey, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1120
Feature Name: TELANG series
Description: Soil derived from sub recent alluvium, yellowish in colour, clayey, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1121
Feature Name:	TEMBAGA series
Description:	Soil derived from reworked materials, brownish in colour, coarse loamy, abundant rounded gravels, moderately well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1122
Feature Name:	TEMBIL series
Description:	Soil derived from reworked materials, brownish in colour, clayey, abundant rounded gravels, moderately well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1123
Feature Name:	TEMERLOH series
Description:	Soil derived from older alluvium, brownish in colour, clayey, well drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1124
Feature Name: TENANG series
Description: Soil derived from sub recent alluvium, brownish in colour, sandy, imperfectly well to well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1125
Feature Name: TEPUS series
Description: Soil derived from recent riverine alluvium, grayish in colour, clayey, somewhat poorly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1126
Feature Name: TERAP series
Description: Soil derived from reworked materials, brownish in colour, clayey, abundant mixed gravels, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1127
Feature Name: TOK YONG series
Description: Soil derived from recent riverine alluvium, brownish in colour, clayey, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1128
Feature Name: ULU DONG series
Description: Soil derived from quartz mica schist, reddish in colour, clayey, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF1129
Feature Name: ULU TIRAM series
Description: Soil derived from older alluvium, brownish in colour, coarse loamy, well drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF1130
Feature Name:	YONG PENG series
Description:	Soil derived from rhyodacite rock, reddish in colour, clayey, high fine silt, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2000
Feature Name:	SARATOK series
Description:	Residual soil derived from sedimentary rock, coarse loamy to coarse silty, non contrasting horizon, pallid coloured soil matrix, absence of mottling
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2001
Feature Name:	PENIPAH series
Description:	Residual soil derived from sedimentary rock, coarse loamy to coarse silty, non contrasting horizon, pallid coloured soil matrix, presence of mottling (>20%).
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2002
Feature Name:	TRIBOH series
Description:	Residual soil derived from sedimentary rock, coarse loamy to coarse silty, contrasting horizon, pallid coloured soil matrix, absence of mottling.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2003
Feature Name:	SEMEBA series
Description:	Soil derived on non-accreting alluvium deposit, coarse loamy to coarse silty, non contrasting horizon, pallid coloured soil matrix, absence of mottling
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2010
Feature Name:	BANDANG series
Description:	Residual soil derived from sedimentary rock, fine loamy to fine silty (<15% sand), non contrasting horizon, pallid coloured soil matrix, absence of mottling
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2011
Feature Name:	TIMANG series
Description:	Residual soil derived from sedimentary rock, fine loamy to fine silty (<15% sand), non contrasting horizon, pallid coloured soil matrix, presence of mottling (>20%)
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2012
Feature Name:	MERANG series
Description:	Residual soil derived from sedimentary rock, fine loamy to fine silty (<15% sand), contrasting horizon, pallid coloured soil matrix, absence of mottling
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2013
Feature Name:	DURIN series
Description:	Residual soil derived from sedimentary rock, fine loamy to fine silty (>15% sand), non contrasting horizon, pallid coloured soil matrix, absence of mottling.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2014
Feature Name: LUBAI series
Description: Soil developed on non-accreting alluvium deposit, fine loamy to fine silty (>15% sand), non contrasting horizon, pallid coloured soil matrix, absence of mottling.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2020
Feature Name: KERAIT series
Description: Residual soil derived from sedimentary rock, clay textured, non contrasting horizon, pallid coloured soil matrix, absence of mottling.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2021
Feature Name: AJOH series
Description: Residual soil derived from sedimentary rock, clay textured, non contrasting horizon, pallid coloured soil matrix, presence of mottling (>20%)
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2022
Feature Name:	SERAYAN series
Description:	Residual soil derived from sedimentary rock, clay textured, non contrasting horizon, soil matrix with hue >10YR, absence of mottling
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2030
Feature Name:	NYALAU series
Description:	Residual soil derived from sedimentary rock, coarse loamy or coarse silty, presence of albic horizon, yellowish soil matrix (10YR,2.5Y)
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2031
Feature Name:	MATANG series
Description:	Residual soil derived from sedimentary rock, coarse loamy or coarse silty, yellowish soil matrix (10YR,2.5Y)
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2032
Feature Name: SEBANGAN series
Description: Soil developed on non-accreting alluvium deposit, coarse loamy or coarse silty, yellowish soil matrix (10YR,2.5Y)
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2040
Feature Name: BEKENU series
Description: Residual soil derived from sedimentary rock, fine loamy to fine silty, yellowish soil matrix (10YR,2.5Y).
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2041
Feature Name: TUKAU series
Description: Soil developed on non-accreting alluvium, fine loamy to fine silty, yellowish soil matrix (10YR,2.5Y)
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2042
Feature Name:	BIAWAK series
Description:	Residual soil derived from metamorphic rock, fine loamy to fine silty, yellowish soil matrix (10YR,2.5Y).
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2043
Feature Name:	SARIKEI series
Description:	Residual soil derived from sedimentary rock, fine loamy to fine silty, reddish soil matrix (7YR,2.5Y).
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2060
Feature Name:	ABOK series
Description:	Residual soil derived from granitic rock, fine loamy to fine silty, yellowish soil matrix (10YR,2.5Y), low CEC (<24me/100g clay).
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2061
Feature Name: GUMBANG series
Description: Residual soil derived from non sedimentary rock, fine loamy to fine silty, yellowish soil matrix (10YR,2.5Y)..
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2062
Feature Name: ARIP series
Description: Residual soil derived from non sedimentary rock, fine loamy to fine silty, reddish soil matrix (7.5YR,2.5Y), CEC >24me/100g clay
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2063
Feature Name: SERIKIN series
Description: Soil developed on non-accreting alluvium, fine loamy to fine silty, yellowish soil matrix (10YR,2.5Y).
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2070
Feature Name: MERIT series
Description: Residual soil derived from shale, fine clay, yellowish soil matrix (10YR,2.5Y), CEC (>24me/100g clay).
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2071
Feature Name: LUPAR series
Description: Soil developed on non-accreting alluvium, fine clay, yellowish soil matrix (10YR,2.5Y)
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2072
Feature Name: STOM series
Description: Residual soil derived from shale, fine clay, yellowish soil matrix (10YR,2.5Y), CEC (>24me/100g clay, imperfectly drained.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2073
Feature Name:	BAGUNAN series
Description:	Residual soil derived from shale, fine clay, reddish soil matrix (7.5YR,2.5Y), CEC (<24me/100g clay).
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2074
Feature Name:	BEDUP series
Description:	Residual soil derived from shale, fine clay, yellowish soil matrix (10YR,2.5Y), CEC (16-24me/100g clay)
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2075
Feature Name:	JAKAR series
Description:	Residual soil derived from shale, fine clay, reddish soil matrix (7.5YR,2.5Y), CEC (>24me/100g clay).
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2090
Feature Name:	SEMONGGOK series
Description:	Residual soil derived from shale, very fine clay, yellowish soil matrix (10YR,2.5Y), presence of faint coloured mottles
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2091
Feature Name:	PADAWAN series
Description:	Residual soil derived from shale, very fine clay, yellowish soil matrix (10YR,2.5Y), CEC (>24me/100g clay), no mottles.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF2092
Feature Name:	STASS series
Description:	Residual soil derived from shale, very fine clay, reddish soil matrix (7.5YR,2.5Y), CEC (>24me/100g clay).
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2093
Feature Name: MELUGU series
Description: Residual soil derived from shale, very fine clay, yellowish soil matrix (10YR,2.5Y), CEC (<24me/100g clay).
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF2100
Feature Name: TRAGA series
Description: Residual soil derived from non sedimentary rock, very fine clay, reddish soil matrix (7YR,2.5Y)
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF3000
Feature Name: KATAI series
Description: Soil formed on alluvium derived from basic and ultrabasic igneous rocks, brownish in colour, fine loamy, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3010
Feature Name:	KINABUTAN series
Description:	Soil derived from basic and intermediate igneous rocks, yellowish brown in colour, clayey, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3020
Feature Name:	KUMANSI series
Description:	Soil derived from mudstone and shale, yellowish brown in colour, clayey, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3030
Feature Name:	LUMISIR series
Description:	Soil derived from sedimentary rocks, reddish in colour, clayey, well drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3040
Feature Name:	KOUNG series
Description:	Soil derived from tuffaceous rock, red-yellow in colour with grayish colour on the lower horizon, clayey, imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3050
Feature Name:	KAPILIT series
Description:	Soil derived from sandstone, red-yellow in colour, fine loamy, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3060
Feature Name:	MENSULI series
Description:	Soil derived from chert, red in colour, clayey, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF3070
Feature Name: PALIU series
Description: Soil on alluvium derived from sedimentary rocks, red-yellow in colour, fine loamy, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF3080
Feature Name: TANJONG LIPAT series
Description: Soil derived from sandstone and mudstone/shale, yellowish in colour, fine loamy, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF3090
Feature Name: INANAM series
Description: Soil on alluvium derived from sedimentary rocks, yellowish in colour with gray and red mottles, clayey, imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3100
Feature Name:	KIAU series
Description:	Soil derived from sandstone and mudstone/shale, yellowish in colour, fine silty, moderately well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3110
Feature Name:	SIPIT series
Description:	Soil derived from sandstone and mudstone/shale, reddish in colour, fine loamy, moderately well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3120
Feature Name:	BATANG series
Description:	Soil derived from mudstone, red-yellow in colour, fine loamy, moderately well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3130
Feature Name:	BERUANG series
Description:	Soil derived from intermediate and basic igneous rock, reddish in colour, clayey, moderately well to well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3140
Feature Name:	MASAUM series
Description:	Soil derived from mudstone/shale, yellowish in colour, clayey, imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SF3150
Feature Name:	GUNUNG ALAB series
Description:	Soil derived from sandstone and mudstone/shale, yellowish in colour, fine loamy, porly to imperfectly drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF3160
Feature Name: DAGAT series
Description: Soil derived from tuffaceous rock, reddish in colour, clayey, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SF3170
Feature Name: DAGAT series
Description: Soil derived from tuffaceous rock, reddish in colour, clayey, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

SG – MOLLISOLS

Feature Code: SG0000
Feature Name: MOLLISOLS
Description: Other soils that have (a) a mollic horizon and (b) a high base saturation > 50 percent throughout the soil to at least 180 cm or a lithic or paralithic contact, whichever is shallower
Feature Class: Polygon
Possible Attribute: Label(LBL), Area Measured in Hectares(ARH)

Feature Code: SG1000
Feature Name:
Description:
Feature Class: Polygon

Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SG2001
Feature Name: SARAWAK 1
Description:
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SG3001
Feature Name: SABAH
Description:
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

SH –ALFISOLS

Feature Code:	SH0000
Feature Name:	ALFISOLS
Description:	Other soils with (a) an argillic, a kandic, or a natric horizon or (b) a fragipan with clay films > 1 mm thick in some part. Usually enough moisture for crops in most years.
Feature Class:	Polygon
Possible Attribute:	Label(LBL), Area Measured in Hectares(ARH)

Feature Code:	SH1001
Feature Name:	BANTAL series
Description:	Soil derived from andesite rock, brownish in colour; clayey,high base saturation, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH1002
Feature Name:	BENTA series
Description:	Soil derived from mixed parent materials igneous rock, brownish in colour; clayey,high base saturation, well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH1003
Feature Name:	BERUIT
Description:	Soil derived from tuffaceous materials, brownish in colour; clayey,high base saturation, well drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile

Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1004
Feature Name: DAMAK series
Description: Soil derived from rhyolite, brownish in colour, fine loamy,high base saturation, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1005
Feature Name: HALU series
Description: Soil derived from sub recent alluvium, grayish in colour, fine loamy, poorly to somewhat poorly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1006
Feature Name: JAN series
Description: Soil derived from rhyolite, brownish in colour, coarse loamy,high base saturation, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil

	Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)
Feature Code:	SH1007
Feature Name:	JERANTUT series
Description:	Soil derived from tuffaceous materials, brownish in colour; clayey, high fine silt,high base saturation, well drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)
Feature Code:	SH1008
Feature Name:	KAKI BUKIT series
Description:	Soil derived from limestone and calcareous materials, brownish in colour, very fine clay, high base saturation, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)
Feature Code:	SH1009
Feature Name:	KENERING series
Description:	Soil derived from granite rock, brownish in colour, clayey with gravels, high base saturation, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil

Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1010
Feature Name: KERAK series
Description: Soil derived from tuffaceous materials reddish in colour; fine loamy,high base saturation, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1011
Feature Name: KIOL series
Description: Soil derived from tuffaceous materials, reddish in colour; clayey,high base saturation, well drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1012
Feature Name: KUMBANG series
Description: Soil derived from limestone and calcareous materials, olive brown in colour, clayey, presence of thick manganese band, moderately well to well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base

saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1013
Feature Name: LAYANG series
Description: Soil derived from limestone and calcareous materials, brownish in colour, clayey, presence of thick manganese band, moderately well to well drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1014
Feature Name: LEKOK series
Description: : Soil derived from tuffaceous material, reddish in colour soil with a mollic epipedon, clayey, high base saturation, high fine silt, moderately well to well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1015
Feature Name: MAT DALING series
Description: Soil derived from rhyolite, brownish in colour, fine loamy, high base saturation, well drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil

Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1016
Feature Name: MENTARA series
Description: Soil derived from limestone and calcareous materials, olive yellow in colour clayey, presence of thick manganese band, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1017
Feature Name: MERAPOH series
Description: Soil derived from limestone and calcareous materials, brownish in colour, very fine clay, high base saturation, moderately well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1018
Feature Name: MERHAMAH series
Description: Soil derived from limestone and calcareous materials, brownish in colour, clayey, presence of thick manganese band, moderately well to well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil

Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1019
Feature Name: NIRAM series
Description: Soil derived from limestone and calcareous materials, brownish in colour, clayey, presence of thin manganese nodules, moderately well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1020
Feature Name: RAKIT series
Description: Soil derived from limestone and calcareous materials, brownish in colour, clayey, moderately well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1021
Feature Name: RETANG series
Description: Soil derived from tuffaceous materials, brownish in colour, clayey, high base saturation, and well drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base

saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1022
Feature Name: SALAK series
Description: Soil derived from limestone and calcareous materials, brownish in colour, clayey, presence of thick manganese band, moderately well to well drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1023
Feature Name: SALANG series
Description: Soil derived from tuffaceous material, reddish in colour, clayey, high base saturation, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1024
Feature Name: SAT series
Description: Soil derived from shale, brownish in colour; clayey with high fine silt, high base saturation, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH1025
Feature Name:	SAWA series
Description:	Soil derived from granite, brownish in colour; fine loamy with angular quartz gravels, common red mottle,high base saturation, well drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH1026
Feature Name:	SELIMBER series
Description:	Soil derived from tuffaceous materials, yellowish in colour, fine loamy, high base saturation, well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH1027
Feature Name:	SELUT series
Description:	Soil derived from limestone and calcareous materials, brownish in colour, clayey, presence of thick manganese band, moderately well to well drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1028
Feature Name: TABAN series
Description: Soil derived from limestone and calcareous materials, strong brown in colour, clayey, presence of thick manganese band , moderately well to well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1029
Feature Name: TADA series
Description: Soil derived from tuffaceous materials, brownish in colour, clayey , high base saturation ,well drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1030
Feature Name: TAHAN series
Description: Soil derived from tuffaceous materials, brownish in colour, clayey , high base saturation ,well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1031
Feature Name: TAJENG series
Description: Soil derived from shale, brownish in colour, clayey, high base saturation, well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1032
Feature Name: TANGGANG series
Description: Soil derived from limestone and calcareous materials, olive yellow in colour, clayey, presence of thin manganese nodules, moderately well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1033
Feature Name: EKEK series
Description: Soil derived from mixed igneous parent materials, brownish in colour, coarse loamy, high base saturation, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1034
Feature Name: TEMAU series
Description: Soil derived from limestone and calcareous materials, brownish in colour, clayey, presence of thick manganese band, imperfectly to somewhat imperfectly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1035
Feature Name: TEMBELING series
Description: Soil derived from tuffaceous materials, brownish in colour, clayey, high base saturation, and well drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH1036
Feature Name: TERAH series
Description: Soil derived from limestone and calcareous materials, brownish in colour, very fine clay, high base saturation presence of thick manganese band, moderately well to well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH2000
Feature Name: KABULOH series
Description: Residual soil derived from calcareous shale, fine clay, yellow coloured soil matrix
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH2001
Feature Name: KARABUNGAN series
Description: Residual soil derived from calcareous shale, fine clay, red coloured soil matrix
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3000
Feature Name: BEESTON series
Description: Soil derived from basic igneous rock, reddish in colour, clayey, moderately well to well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3010
Feature Name: KOBOVAN series
Description: Soil derived from intermediate to basic igneous rock, reddish in colour, fine loamy, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3020
Feature Name: LIBONG series
Description: Soil derived from tuffaceous rock, brownish in colour, fine loamy, moderately well to well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3030
Feature Name: LUMERAU series
Description: Soil derived from mudstone/shale, red-yellow in colour, clayey, well drained, very deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3040
Feature Name: MALAWALI series
Description: Soil derived from ultrabasic igneous rock, brownish in colour, fine silty, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3050
Feature Name: SEMPORNA series
Description: Soil derived from limestone, yellowish in colour, clayey, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3060
Feature Name: TERANG series
Description: Soil derived from calcareous alluvium, red-yellow in colour, fine loamy, moderately well drained, moderately deep profile..
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3070
Feature Name: TINGKAYU series
Description: Soil derived from ultrabasic igneous rocks, brownish in colour, clayey, well drained, somewhat moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3080
Feature Name: PANTAGALUANG series
Description: Soil formed on alluvium derived from basic and ultrabasic igneous rocks, red-yellow in colour, fine loamy, moderately well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3090
Feature Name: BESAR series
Description: Soil derived from basic igneous rocks, reddish in colour, fine clayey, well drained, very deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3100
Feature Name: BURAN series
Description: Soil on alluvium derived from sedimentary rock, yellowish in colour, fine clayey, imperfectly well drained, very deep profile..
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3110
Feature Name: DARAU series
Description: Soil on alluvium derived from sedimentary rock, brownish in colour, fine silty, moderately well drained, very deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3120
Feature Name: MANGKAP series
Description: Soil formed on alluvium derived from basic and ultrabasic igneous rocks, red-yellow in colour, fine clayey, well drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH3130
Feature Name:	NANGOH series
Description:	Soil formed on alluvium derived from basic and ultrabasic igneous rocks, grayish in colour, fine clayey, poorly drained, very deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH3140
Feature Name:	LUNGPATAU series
Description:	Soil derived from calcareous alluvium, grayish in colour, very fine clayey, poorly drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH3150
Feature Name:	LUNPARAI series
Description:	Soil derived from mudstone/shale, grayish in colour, fine clayey, poorly drained, very deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH3160
Feature Name:	NUMATOI series
Description:	Soil formed on alluvium derived from basic and ultrabasic Igneous rocks, red-yellow in colour, fine clayey, moderately well to well drained, very deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH3170
Feature Name:	SABOR series
Description:	Soil formed on alluvium derived from mixed of sedimentary and, basic and ultrabasic igneous rocks, reddish in colour, fine clayey, moderately well to well drained, very deep profile..
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SH3180
Feature Name:	TALID series
Description:	Soil formed derived from tuffaceous rock, yellowish in colour, fine clayey, moderately well to well drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3190
Feature Name: TEGUPI series
Description: Soil formed derived from limestone, red-yellow in colour, fine clayey, well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SH3200
Feature Name: LUMPONGON series
Description: Soil formed derived from mudstone/shale, yellowish in colour, fine clayey, moderately well to well drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

SI –INCEPTISOLS

Feature Code: SI0000
Feature Name: INCEPTISOLS
Description: Other soils that have (a) no illuvial clay horizon but do have (i) a cambic horizon or (ii) aquic conditions within 50 cm or (iii) within 150cm the start of a calcic, petrocalcic, gypsic, petrogypsic, placic, duripan, fragipan, or oxic starting within 200cm, or sulfiric horizon within 150 cm, or (b) a histic, mollic, plaggen, or umbric horizon or ESP > 15 percent decreasing below 50 cm.
Feature Class: Polygon
Possible Attribute: Label (LBL), Area Measured in Hectares (ARH)

Feature Code: SI1001
Feature Name: BAKONG series
Description: Soil developed on old beach ridges, yellowish in colour, coarse loamy, moderately well drained, deep profile
Feature Class: Polygon

Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1002
Feature Name: BANAR series
Description: Soil derived from sub recent alluvium, brownish in colour, coarse loamy, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1003
Feature Name: BEMBAN series
Description: Soil derived from sub recent alluvium, brownish in colour, fine loamy, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1004
Feature Name: BEOH series
Description: Soil developed on old beach ridges, grayish in colour, sandy, imperfectly drained, deep profile.
Feature Class: Polygon

Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1005
Feature Name: BERIAH series
Description: Soil derived from marine alluvium, grayish in colour, clayey, dominantly yellow mottles, poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1006
Feature Name: BERNAM series
Description: Soil derived from marine alluvium, olive gray in colour, clayey, dominantly olive mottles, presence of slickenside,poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1007
Feature Name: BINJAI series
Description: Soil derived from recent riverine alluvium, grayish in colour, clayey, very poorly drained, deep profile
Feature Class: Polygon

Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1008
Feature Name: BURONG series
Description: Soil derived from marine alluvium, grayish in colour, clayey, low conductivity, poorly drained, shallow profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1009
Feature Name: CAREY series
Description: Soil derived from marine alluvium, grayish in colour, loamy, presence of jarosite material, poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1010
Feature Name: CHENAAM series
Description: Soil derived from marine alluvium, olive gray in colour, clayey, dominantly brown/yellow mottles,high conductivity, poorly drained, moderately deep profile
Feature Class: Polygon

Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1011
Feature Name: CHENERING series
Description: Soil derived from marine alluvium, grayish in colour, clayey,gravelly, having buried horizon,very poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1012
Feature Name: CERMIN series
Description: Soil derived from sub recent alluvium, brownish in colour, fine loamy, imperfectly to somewhat imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1013
Feature Name: GUGUT series
Description: Soil derived from recent riverine alluvium, yellowish in colour, clayey with high silt, imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS),

Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1014
Feature Name: IBAI series
Description: Soil derived from marine alluvium, grayish in colour, loamy,presence of weakly cemented spodic horizon ,imperfectly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1015
Feature Name: IDRIS series
Description: Soil derived from marine alluvium, gray in colour, clayey, dominantly red mottles, presence of plinthite, poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1016
Feature Name: JABIL series
Description: Soil derived from recent riverine alluvium, grayish in colour, clayey, poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC),

Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1017
Feature Name: JAWA series
Description: Soil derived from marine alluvium, brownish in colour, clay to heavy clay, presence of jarosite material, poorly drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1018
Feature Name: JENJARUM series
Description: Soil derived from brackish water deposits, brownish in colour, clayey, presence of sulfiric material, very poorly drained, moderately to deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1019
Feature Name: JONG series
Description: Soil derived from sub recent alluvium, grayish in colour, fine loamy, poorly to somewhat poorly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil

	Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)
Feature Code:	SI1020
Feature Name:	KAMPONG PERLIS series
Description:	Soil derived from marine alluvium, grayish in colour, clayey, dominantly brown/yellow mottles, poorly drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)
Feature Code:	SI1021
Feature Name:	KANGAR series
Description:	Soil derived from marine alluvium, grayish in colour, clayey, dominantly red mottles, presence of gypsum, poorly drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)
Feature Code:	SI1022
Feature Name:	KAYAN series
Description:	Soil derived from marine alluvium, grayish in colour, clayey, low conductivity, poorly drained, moderately deep A, BC, C profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base

Saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1023
Feature Name: KECHAI series
Description: Soil derived from marine alluvium, grayish in colour, clayey, dominantly brown/yellow mottles, poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1024
Feature Name: KEMANG series
Description: Soil derived from marine alluvium, brownish in colour, clayey to heavy clay, presence of sulfiric material, poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1025
Feature Name: KERPAH series
Description: Soil derived from marine alluvium, brownish in colour, sandy, imperfectly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1026
Feature Name:	KERPAI series
Description:	Soil derived from recent riverine alluvium, grayish in colour, clayey with high silt, very poorly drained, shallow profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1027
Feature Name:	KILAN series
Description:	Soil derived from sub recent alluvium, grayish in colour, clayey, common plinthite, somewhat poorly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1028
Feature Name:	KILIM series
Description:	Soil derived from sub recent alluvium, brownish in colour, fine loamy, well drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1029
Feature Name:	KOH series
Description:	Soil derived from recent riverine alluvium, grayish in colour, fine loamy, and imperfectly to somewhat imperfectly drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1030
Feature Name:	KUAU series
Description:	Soil derived from sub recent alluvium, brownish in colour, fine loamy, moderately well drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1031
Feature Name:	LALOH series
Description:	Soil derived from limestone and calcareous materials, grayish in colour, clayey, presence of thin manganese nodules,poorly to somewhat poorly drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1032
Feature Name: LEKIR series
Description: Soil derived from recent riverine alluvium, grayish in colour, fine loamy, and imperfectly to somewhat imperfectly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1033
Feature Name: LUBOK ITEK series
Description: Soil derived from recent riverine alluvium, yellowish in colour, clayey with buried horizon, very poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1034
Feature Name: LUBUK SENDONG series
Description: Soil derived from recent riverine alluvium, grayish in colour, clayey, somewhat very poorly drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1035
Feature Name:	LUNAS series
Description:	Soil derived from sub recent alluvium, grayish in colour, fine loamy, poorly to somewhat poorly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1036
Feature Name:	MANIK series
Description:	Soil derived from sub recent alluvium, grayish in colour, gravelly, poorly to somewhat poorly drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1037
Feature Name:	MAROH series
Description:	Soil derived from recent riverine alluvium, grayish in colour, fine loamy, poorly to somewhat poorly drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1038
Feature Name: MELAWI series
Description: Soil derived from marine alluvium, brownish in colour, sandy, somewhat imperfectly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1039
Feature Name: NERUS series
Description: Soil derived from marine alluvium, grayish in colour, clayey, having buried horizon, somewhat poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1040
Feature Name: NIBONG series
Description: Soil derived from marine alluvium, grayish in colour, loamy, having buried horizon, very poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1041
Feature Name:	PACHITAN series
Description:	Soil derived from marine alluvium, brownish in colour, clayey, dominantly brown/yellow mottles, poorly drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1042
Feature Name:	PARIT BOTAK series
Description:	Soil derived from marine alluvium, grayish in colour, clay to heavy clay, presence of jarosite material, poorly drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1043
Feature Name:	PASIR PUTEH series
Description:	Soil derived from recent riverine alluvium, grayish in colour, fine loamy, poorly to somewhat poorly drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1044
Feature Name: PENAGA series
Description: Soil derived from marine alluvium, grayish in colour, clayey,enriched with illuviated humus,having buried horizon, imperfectly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1045
Feature Name: PENAMBANG series
Description: Soil derived from recent riverine alluvium, brownish in colour, fine loamy, and moderately well to well drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1046
Feature Name: PEREPAT series
Description: Soil derived from marine alluvium, brownish gray in colour, clayey, dominantly brown/yellow mottles, poorly drained, shallow to moderately profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1047
Feature Name: PERMATANG series
Description: Soil derived from marine alluvium, brownish gray in colour, loamy, imperfectly drained, deep profile
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1048
Feature Name: PERSIT series
Description: Soil derived from limestone and calcareous materials, brownish in colour, very fine clay, presence of thick manganese band, poorly to somewhat poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1049
Feature Name: RESAM series
Description: Soil developed on old beach ridges, yellowish in colour, loamy, somewhat imperfectly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1050
Feature Name: SABRANG series
Description: Soil derived from marine alluvium, brownish in colour, clayey, dominantly brown/yellow mottles, poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1051
Feature Name: SABRANG A series
Description: Soil derived from brackish water deposits, brownish in colour, clayey, presence of sulfiric material, poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1052
Feature Name: SEDU series
Description: oil derived from marine alluvium, brownish in colour, clayey, presence of jarosite material, poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1053
Feature Name: SEGARI series
Description: Soil derived from sub recent alluvium, grayish in colour, fine loamy, poorly to somewhat poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1054
Feature Name: SEJACOB series
Description: Soil derived from recent riverine alluvium, grayish in colour, fine loamy, poorly to somewhat poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1055
Feature Name: SELANGOR series
Description: Soil derived from marine alluvium, brownish in colour, clayey, dominantly brown/yellow mottles, poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1056
Feature Name:	SELINGKAT series
Description:	Soil derived from recent riverine alluvium, grayish in colour, clayey with high silt, somewhat very poorly drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1057
Feature Name:	SENENG series
Description:	A deep, moderately well drained, fine loamy beach ridges soil.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1058
Feature Name:	SEPAYANG series
Description:	Inceptisols; recent riverine alluvium; silty clay; gray; somewhat poorly drained low base saturation
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1059
Feature Name:	SERKAT series
Description:	Soil derived from marine alluvium, brownish in colour, clayey, dominantly brown/yellow mottles, poorly drained, shallow profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1060
Feature Name:	SERKAT A series
Description:	Soil derived from brackish water deposits, brownish in colour, clayey, presence of sulfuric material, very poorly drained, shallow profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1061
Feature Name:	SERONG series
Description:	Soil derived from marine alluvium, greenish gray in colour, clayey, dominantly brown/yellow mottles, poorly drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1062
Feature Name: SETOL series
Description: Soil derived from recent riverine alluvium, grayish in colour, clayey with high silt, poorly drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1063
Feature Name: SIMPAH series
Description: Soil derived from sub recent alluvium, grayish in colour, clayey, poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1064
Feature Name: SUBANG series
Description: Soil derived from sub recent alluvium, brownish in colour, sandy, poorly to somewhat poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1065
Feature Name:	SUNGAI AMIN series
Description:	Soil derived from recent riverine alluvium, grayish in colour, fine loamy, poorly to somewhat poorly drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1066
Feature Name:	TAMBUN series
Description:	Soil derived from marine alluvium, brownish in colour, coarse sandy clay loam, presence of sulfiric material, poorly drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1067
Feature Name:	TEBUAN series
Description:	Soil derived from marine alluvium, brownish in colour, coarse sandy and loamy sand, presence of sulfiric material, poorly drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1068
Feature Name:	TELEMONG series
Description:	Inceptisols; recent riverine alluvium; fine sandy loam; yellowish brown;somewhat excessively drained;. low base saturation.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1069
Feature Name:	TELOK series
Description:	Soil derived from marine alluvium, grayish in colour, clay to heavy clay, presence of jarosite material, poorly drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI1070
Feature Name:	TERAS series
Description:	Soil derived from recent riverine alluvium, yellowish in colour, gravelly, somewhat excessively to excessively drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1071
Feature Name: TIMUN series
Description: Soil derived from brackish water deposits, grayish in colour, coarse sand to loamy sand, presence of sulfiric material, poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1072
Feature Name: TONGKANG series
Description: Soil derived from marine alluvium, grayish in colour, clay to heavy clay, presence of jarosite material, poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1073
Feature Name: TUALANG series
Description: Soil derived from marine alluvium, grayish in colour, clayey, dominantly brown mottles,poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI1074
Feature Name: MaNGKOK series
Description: Soil derived from marine alluvium, grayish in colour, clayey, dominantly brown/yellow mottles, poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3000
Feature Name: ANTULAI series
Description: Soil derived from sandstone, yellowish in colour, fine loamy, low base saturation, well drained, somewhat moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3010
Feature Name: DURIKONG series
Description: Soil derived from chert, brownish in colour, fine silty, low base saturation, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3020
Feature Name:	KELAWAT series
Description:	Soil derived from recent alluvium, yellowish in colour, fine loamy, low base saturation, moderately well drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3030
Feature Name:	LAAB series
Description:	Soil derived from sandstone and mudstone/shale, yellowish in colour, fine loamy, low base saturation, well drained, somewhat moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3040
Feature Name:	LUASONG series
Description:	Soil derived from sandstone and mudstone/shale, reddish in colour, fine loamy, low base saturation, well drained, somewhat moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3050
Feature Name: MANGKAWAGU series
Description: Soil formed on older alluvium and terraces, reddish in colour, coarse loamy, low base saturation, somewhat excessively drained, somewhat moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3060
Feature Name: NERELUD series
Description: Soil derived from intermediate and basic igeneous rock, yellowish in colour, fine loamy, low base saturation, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3070
Feature Name: SADOK series
Description: Soil derived from acid igeneous rock, red-yellow in colour, fine loamy, low base saturation, well drained, somewhat moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3080
Feature Name:	SILAD series
Description:	Soil derived from ultrabasic igeneous rock, brownish in colour, fine silty, low base saturation, well drained, somewhat moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3090
Feature Name:	TENGGARA series
Description:	Soil derived from tuffaceous rock, yellowish in colour, fine loamy, low base saturation, well drained, somewhat moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3100
Feature Name:	MALIAU series
Description:	Soil derived from ultrabasic igneous rock, yellowish in colour, coarse loamy, low base saturation, well drained, somewhat moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3110
Feature Name: KENINIPIR series
Description: Soil derived from acid igneous rock, yellowish in colour, coarse loamy, low base saturation, well drained, shallow profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3120
Feature Name: MANTAKI series
Description: Soil derived from granidiorite rock, brownish in colour, coarse loamy, low base saturation, well drained, somewhat moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3130
Feature Name: KINABALU series
Description: Soil derived from acid igneous rock, yellowish in colour, coarse loamy, low base saturation, well drained, shallow profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3140
Feature Name: LUBA series
Description: Soil derived from recent alluvium, yellowish in colour, coarse loamy, low base saturation, imperfectly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3150
Feature Name: BULANAT series
Description: Soil derived from recent alluvium, yellowish in colour, coarse loamy, high base saturation, well drained, very deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3160
Feature Name: KAWA series
Description: Soil derived from intermediate and basic igneous rock, brownish in colour, fine loamy, high base saturation, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3170
Feature Name: QUARRY series
Description: Soil derived from acid igneous rock, brownish in colour, fine loamy, high base saturation, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3180
Feature Name: BINUANG series
Description: Soil derived from ultrabasic rock, brownish in colour, fine loamy, high base saturation, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3190
Feature Name: BOMBALAI series
Description: Soil derived from intermediate and basic igneous rock, brownish in colour, fine loamy, high base saturation, well drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3200
Feature Name:	HATTON series
Description:	Soil derived from tuffaceous rock, yellowish in colour, fine loamy, high base saturation, well drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3210
Feature Name:	JUAK series
Description:	Soil derived from chert, reddish in colour, fine silty, high base saturation, well drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3220
Feature Name:	SINSULOD series
Description:	Soil formed on alluvium derived from ultrabasic and basic rock, brownish in colour, fine silty, high base saturation, imperfectly drained, moderately deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3230
Feature Name:	MADAI series
Description:	Soil derived from limestone, brownish in colour, fine clayey, high base saturation, well drained, shallow profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3240
Feature Name:	LOC SAMBUANG series
Description:	Soil derived from limestone, brownish in colour, fine loamy, high base saturation, well drained, shallow profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SI3250
Feature Name:	BENGAWAT series
Description:	Soil derived from recent alluvium deposits, grayish in colour, fine loamy, high base saturation, very poorly drained, very deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3260
Feature Name: METAH series
Description: Soil derived from sulphidic alluvium, grayish in colour, fine loamy, sulphidic horizon, low base saturation, somewhat poorly drained, shallow profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3270
Feature Name: KOYAH series
Description: Soil derived from recent alluvium deposits, grayish in colour, fine clayey, low base saturation, very poorly drained, very deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3280
Feature Name: LARI series
Description: Soil derived from calcareous alluvium, grayish in colour, fine loamy, saline soil, high base saturation, very poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SI3290
Feature Name: RASANG series
Description: Soil derived from mudflow, grayish in colour, fine loamy, high base saturation, very poorly drained, shallow profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

SK – ENTISOLS

Feature Code: SK0000
Feature Name: ENTISOLS
Description: Other soils with weak or no diagnostic horizons.
Feature Class: Polygon
Possible Attribute: Label (LBL), Area Measured in Hectares(ARH)

Feature Code: SK1001
Feature Name: ALOR SEMAT series
Description: Soil derived from marine alluvium, dark gray in colour, clayey, low conductivity, poorly drained, shallow to moderately deep A, BC, C profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)Feature Code: SK1001

Feature Code: SK1002
Feature Name: BAGING series
Description: Soil derived from marine alluvium, yellowish in colour, sandy, somewhat excessively drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK1003
Feature Name: BAKAU series
Description: Soil derived from marine alluvium, greenish gray in colour, clayey, low conductivity, poorly drained, shallow A, C profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK1004
Feature Name: BALIK PULAU series
Description: Soil derived from marine alluvium, greenish gray in colour, clayey, low conductivity, poorly drained, shallow A, C profile..
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK1005
Feature Name:	BANGGOL series
Description:	Soil derived from recent riverine alluvium, yellowish in colour, gravelly, and imperfectly to somewhat imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK1006
Feature Name:	BANJAR series
Description:	Soil derived from marine alluvium, greenish gray in colour, clayey, high conductivity, poorly drained, shallow A, BC, C profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK1007
Feature Name:	FIKRI series
Description:	Soil derived from marine alluvium, brownish in colour, sandy, imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK1008
Feature Name: GUAR series
Description: Soil derived from marine alluvium, brownish in colour, clay to heavy clay, presence of jarosite material, poorly drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK1009
Feature Name: JURU series
Description: Soil derived from marine alluvium, brownish in colour, clayey, presence of jarosite material, poorly drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK1010
Feature Name: KANGKONG series
Description: Soil derived from marine alluvium, olive gray in colour, clayey, dominantly olive mottles,poorly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH) Feature Code: SK1009

Feature Code:	SK1011
Feature Name:	KERANJI series
Description:	Soil derived from marine alluvium, grayish in colour, clayey to heavy clay, presence of sulfidic material, very poorly drained, shallow A, C profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)Feature Code: SK1004

Feature Code:	SK1012
Feature Name:	KUALA KEDAH series
Description:	Soil derived from marine alluvium, greenish gray in colour, clayey, low conductivity, poorly drained, shallow A, C profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK1013
Feature Name:	KUALA PERLIS series
Description:	Soil derived from marine alluvium, grayish in colour, clay to heavy clay, presence of jarosite material, poorly drained, shallow profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK1014
Feature Name: KUNDOR series
Description: Soil derived from marine alluvium, dark gray in colour, clayey, dominantly brown/yellow mottles,poorly drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK1015
Feature Name: LINAU series
Description: Soil derived from marine alluvium, brownish in colour, clayey to heavy clay, presence of sulfidic material, low conductivity, very poorly drained, shallow to moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK1016
Feature Name: MERBOK series
Description: Soil derived from marine alluvium, grayish in colour, clayey to heavy clay, presence of sulfidic material, very poorly drained, moderately deep A, C profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK1017
Feature Name:	MERCHANG series
Description:	Soil derived from marine alluvium, brownish in colour, sandy, enriched with illuviated humus, imperfectly drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK1018
Feature Name:	PAUH series
Description:	Soil developed on old beach ridges, brownish in colour, sandy, somewhat excessively drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK1019
Feature Name:	PERMATANG TIMBUL series
Description:	Soil developed on old beach ridges, brownish in colour, sandy, somewhat excessively drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK1020
Feature Name: ROMPIN series
Description: Soil derived from marine alluvium with riverine influence, brownish in colour, sandy, somewhat excessively drained, deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK1021
Feature Name: SEDAKA series
Description: Soil derived from marine alluvium, brownish in colour, clayey, dominantly olive mottles,presence of manganese concreations, poorly drained, moderately deep profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)Feature Code: SK1022

Feature Code: SK1022
Feature Name: SERKAM series
Description: Soil derived from marine alluvium, grayish in colour, clayey, poorly drained, shallow A, BC,C profile.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK1023
Feature Name:	SUNGAI BULOH series
Description:	Soil derived from sub recent alluvium, grayish in colour, sandy, somewhat excessively to excessively drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK1024
Feature Name:	TELAGA series
Description:	Soil derived from recent riverine alluvium, yellowish in colour, coarse loamy, and imperfectly to somewhat imperfectly drained, deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK1025
Feature Name:	ULAR series
Description:	Soil derived from marine alluvium, brownish in colour, sandy, enriched with illuviated humus, somewhat excessively drained, moderately deep profile.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2000
Feature Name: SEMILAJAU series
Description: Alluvial soil, coarse loamy, alluvium derived from acid volcanic rock, well drain, deep soil profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2001
Feature Name: JULAN series
Description: Alluvial soil, coarse loamy, alluvium derived from non-calcareous sedimentary, somewhat well drain, deep soil profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2002
Feature Name: SEBAKO series
Description: Alluvial soil, coarse loamy, alluvium derived from acid igneous rock, well drain, deep soil profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2010
Feature Name:	BEMANG series
Description:	Alluvial soil, fine loamy-fine silty, alluvium derived from non-calcareous sedimentary rock, well drain, deep soil profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2011
Feature Name:	DAPOI series
Description:	Alluvial soil, fine loamy to fine silty, alluvium derived from mixture of acid igneous and sedimenray rock, well drain, deep soil profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2012
Feature Name:	SEBAT series
Description:	Alluvial soil, fine loamy to fine silty, alluvium derived from acid igneous rock, well drain, deep soil profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2020
Feature Name:	SEDUAU series
Description:	Alluvial soil, yellow coloured, clayey, alluvium derived from non-calcareous sedimentary, well drain, deep soil profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2021
Feature Name:	MALANG series
Description:	Alluvial soil, reddish coloured, clayey, alluvium derived from non-calcareous sedimentary, well drain, deep soil profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	MALANG series
Feature Name:	PAKU series
Description:	Alluvial soil, clayey, alluvium derived from calcareous sedimentary rock, well drain, deep soil profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2023
Feature Name:	SEKATI series
Description:	Alluvial soil, clayey, alluvium derived from acid igneous rock, well drain, deep soil profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2024
Feature Name:	RAMUN series
Description:	Alluvial soil, clayey, derived from intermediate to basic igneous rock,present of rock fragments and gravel within the profile, well drain, deep soil profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2025
Feature Name:	TERBAT series
Description:	Alluvial soil, clayey, alluvium derived from intermediate to basic igneous rock, well drain, normally deep soil profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2030
Feature Name: TATAU series
Description: Gley soil derived from marine sand deposit, sand or loamy, greyish coloured soil matrix, poorly drained (waterlogged),non-saline, non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2031
Feature Name: TELOK series
Description: Gley soil derived from marine sand deposit, sand or loamy, greyish coloured soil matrix, poorly drained (waterlogged), moderately saline, non acid sulpahte.
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2032
Feature Name: NONOK series
Description: Gley soil derived from marine sand deposit, sand or loamy, greyish coloured soil matrix, poorly drained (waterlogged), strongly saline, non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2033
Feature Name: PLAN series
Description: Gley soil derived from riverine sandy deposit, sand or loamy, greyish coloured soil matrix, poorly drained (waterlogged),non-saline, non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2034
Feature Name: BOKAH series
Description: Gley soil derived from colluvium sandy deposit, sand or loamy, greyish coloured soil matrix, poorly drained (waterlogged),non-saline, non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2040
Feature Name: PAKAN series
Description: Gley soil derived from riverine sandy deposit, loamy textured (>35% clay), grayish coloured soil matrix, poorly drained (waterlogged),non-saline, non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2041
Feature Name: PIASAU series
Description: Gley soil derived from marine sand deposit, loamy textured (>35% clay), greyish coloured soil matrix, poorly drained (waterlogged), moderately saline, non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2042
Feature Name: SIRIK series
Description: Gley soil derived from marine sand deposit, loamy textured (>35% clay), greyish coloured soil matrix, poorly drained (waterlogged), strongly saline, non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2043
Feature Name: GONG series
Description: Gley soil derived from colluvium sandy deposit, loamy textured (>35% clay), greyish coloured soil matrix, poorly drained (waterlogged), non-saline, non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2050
Feature Name:	BIJAT series
Description:	Gley soil derived from riverine clay deposit, clayey, grey coloured soil matrix, poorly drained (waterlogged), non acid sulpahte
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2051
Feature Name:	SAMARAHAN series
Description:	Gley soil derived from riverine clay deposit, clayey, greenish grey coloured soil matrix, poorly drained (waterlogged), non acid sulpahte
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2052
Feature Name:	DANAU series
Description:	Gley soil derived from riverine clay deposit, clayey, dark grey coloured soil matrix, poorly drained (waterlogged), non acid sulpahte
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2053
Feature Name: MUNDAI series
Description: Gley soil derived from calcareous riverine clay deposit, clayey, grey coloured soil matrix, poorly drained (waterlogged), non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2054
Feature Name: KAKAI series
Description: Gley soil derived from riverine deposit (intermediate to basic igneous), clayey, grey coloured soil matrix, poorly drained (waterlogged)
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2055
Feature Name: JIWAN series
Description: Gley soil derived from riverine deposit (acid igneous), clayey, grey coloured soil matrix, poorly drained (waterlogged)
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2056
Feature Name: DARO series
Description: Gley soil derived from non calcareous marine deposit, clayey, greyish coloured soil matrix, poorly drained (waterlogged),non -saline, non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2057
Feature Name: PENDAM series
Description: Gley soil derived from non calcareous marine deposit, clayey, greyish coloured soil matrix, poorly drained (waterlogged),moderately saline, non acid sulphate
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2058
Feature Name: BELIUNG series
Description: Gley soil derived from non calcareous marine deposit, clayey, greyish coloured soil matrix, poorly drained (waterlogged), strongly saline, non acid sulphate
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2059
Feature Name: BUNTAL series
Description: Gley soil derived from calcareous marine deposit, clayey, greyish coloured soil matrix, poorly drained (waterlogged),strongly saline, non acid sulpahte
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2080
Feature Name: SEMADOH series
Description: Gley soil developed on sedimentary rock (residuum), clayey, greyish coloured soil matrix, poorly drained (waterlogged), normally found in the interior valley
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2081
Feature Name: TUMAU series
Description: Gley soil derived from colluvium deposit, clayey, greyish coloured soil matrix, poorly drained (waterlogged) normally found in the interior valley
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2082
Feature Name:	EMBANG series
Description:	Gley soil derived from colluvium, clayey, coloured soil matrix, poorly drained (waterlogged).
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2090
Feature Name:	KABONG series
Description:	Soil derived from marine deposit, no diagnostic horizon, sandy texture (>75% sand), yellowish coloured soil, absence of calcareous material
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2091
Feature Name:	CHUPIN series
Description:	Soil derived from marine deposit, no diagnostic horizon, sandy texture (>75% sand), yellowish coloured soil, absence of calcareous material
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2092
Feature Name: SIRU series
Description: Soil derived from marine deposit, no diagnostic horizon, sandy texture (>75% sand), yellowish coloured soil, absence of calcareous material, >6% weatherable mineral
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2093
Feature Name: RAMBUNGAN series
Description: Soil derived from marine deposit, no diagnostic horizon, sandy texture (>75% sand), red to dark red coloured soil, absence of calcareous material, presence of Mn in upper subsoil
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2094
Feature Name: SEMATAN series
Description: Soil derived from marine deposit, no diagnostic horizon, sand texture (>75% sand), red to dark red coloured soil, absence of calcareous materail
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2100
Feature Name:	KAYAN series
Description:	Soil derived from riverine deposit, no diagnostic horizon, sand texture (>75% sand), yellowish coloured soil
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2101
Feature Name:	SIAR series
Description:	Soil derived from riverine deposit, no diagnostic horizon, sand texture (>75% sand), red to dark red coloured soil
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2110
Feature Name:	TIKA series
Description:	Residual soil derived from sandstone, sand texture (>75% sand), pallid colour soil
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2111
Feature Name: KILONG series
Description: Soil developed from non accreting alluvium, sand texture (>75% sand), pallid colour soil
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2120
Feature Name: PENINJAU series
Description: Residual soil derived from sandstone, sand texture (>75% sand), yellow coloured soil
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2121
Feature Name: SEBAYA series
Description: Soil developed from non accreting alluvium, sand texture (>75% sand), yellowish coloured soil
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2130
Feature Name:	BELAT series
Description:	Acid sulphates oil derived from marine deposit, acid sulphate layer within 0-50cm, sandy, grayish coloured soil matrix, poorly drained (waterlogged), strongly saline
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2131
Feature Name:	PANDAK series
Description:	Soil derived from marine deposit, acid sulphate layer within 0-50cm, sandy, grayish coloured soil matrix, poorly drained (waterlogged), weakly saline
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2132
Feature Name:	MERSAN series
Description:	Soil derived from marine deposit, acid sulphate layer within 0-50cm, sandy, grayish coloured soil matrix, poorly drained (waterlogged), non - saline
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2140
Feature Name: PALOH series
Description: Soil derived from marine deposit, loamy, acid sulphate layer within 0-50cm, grayish coloured soil matrix, poorly drained (waterlogged), strongly saline
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2141
Feature Name: NAGOR series
Description: Soil derived from marine deposit, acid sulphate layer within 0-50cm, loamy, grayish coloured soil matrix, poorly drained (waterlogged), weakly saline
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2142
Feature Name: NANGKA series
Description: Soil derived from marine deposit, acid sulphate layer within 0-50cm, loamy, grayish coloured soil matrix, poorly drained (waterlogged), non - saline
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2150
Feature Name: RAJANG series
Description: Soil derived from marine deposit, clayey, acid sulphate layer within 0-50cm, grayish to greenish gray coloured soil matrix, poorly drained (waterlogged), strongly saline
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2151
Feature Name: RAMPANGI series
Description: Soil derived from marine deposit, clayey, acid sulphate layer within 0-50cm, grayish to greenish gray coloured soil matrix, poorly drained (waterlogged), weakly saline
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2152
Feature Name: PUNDA series
Description: Soil derived from riverine deposit, clayey, acid sulphate layer within 0-50cm, grayish to greenish gray coloured soil matrix, poorly drained (waterlogged), non- saline
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2160
Feature Name: KLUANG series
Description: Soil derived from marine deposit, clayey, acid sulphate layer within 50-100cm, greyish coloured soil matrix, poorly drained (waterlogged), non-saline
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2161
Feature Name: SEMERA series
Description: Soil derived from marine deposit, clayey, acid sulphate layer within 50-100cm,greyish coloured soil matrix, poorly drained (waterlogged), strongly saline
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2162
Feature Name: MOYAN series
Description: Soil derived from marine deposit, clayey, acid sulphate layer within 50-100cm,greyish coloured soil matrix, poorly drained (waterlogged), weakly saline
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2170
Feature Name:	MELUAN series
Description:	Shallow residual soil (<25 cm deep), clayey, sandy or loamy, derived from any type of igneous or sedimentary rock
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2171
Feature Name:	NGIAN series
Description:	Shallow residual soil (25-50 cm deep), clayey, sandy or loamy, derived insitu over acid igneous rock
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2172
Feature Name:	MAYANG series
Description:	Shallow residual soil (25-50 cm deep), clayey, sandy or loamy, derived insitu over intermediate to basic igneous boulders
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2180
Feature Name:	TUTOH series
Description:	Shallow residual soil (25-50 cm deep), clayey, sandy or loamy, derived from colluvium deposit of non-calcareous sedimentary rock.
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2181
Feature Name:	LUNDU series
Description:	Shallow residual soil (25-50 cm deep), clayey, sandy or loamy, derived from colluvium deposit of acid igneous rock
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2190
Feature Name:	KAPIT series
Description:	Shallow residual soil (25-50 cm deep), clayey, sandy or loamy, derived from any type of non-calcareous sedimentary rock
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2191
Feature Name: BURI series
Description: Shallow residual soil (25-50 cm deep), clayey, sandy or loamy, derived insitu over acid igneous rock
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2192
Feature Name: SEDONG series
Description: Shallow residual soil (25-50 cm deep), clayey, sandy or loamy, derived insitu over intermediate to basic igneous bedrock
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK2200
Feature Name: BINATANG series
Description: Shallow soil (25-50 cm deep), clayey, sandy or loamy, alluvial deposit over calcareous sedimentary rock
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2201
Feature Name:	KELUPU series
Description:	Shallow soil (25-50 cm deep), clayey, sandy or loamy, alluvial deposit over non-calcareous sedimentary rock
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK2202
Feature Name:	PADI series
Description:	Shallow soil (25-50 cm deep), clayey, sandy or loamy, alluvial deposit over calcareous sedimentary rock
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3000
Feature Name:	TAMANONG series
Description:	Soil derived from marine alluvium, yellowish in colour, sandy, low base saturation, imperfectly drained, very deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3010
Feature Name:	KABILI series
Description:	Soil derived from marine alluvium, yellowish in colour, sandy, low base saturation, imperfectly drained, very deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3020
Feature Name:	TANJONG LITA series
Description:	Soil derived from marine alluvium, yellowish in colour, sandy, high base saturation, imperfectly drained, very deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3030
Feature Name:	TANJONG series
Description:	Soil formed on alluvium derived from ultrabasic igneous rock, yellowish in colour, sandy, high base saturation, imperfectly drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK3040
Feature Name: PISAU series
Description: Soil formed on beach ridge, reddish in colour, sandy, low base saturation, well drained, very deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK3050
Feature Name: PANGARANGAN series
Description: Soil derived from sandstone, yellowish in colour, sandy, low base saturation, well drained, very deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK3060
Feature Name: USUKAN series
Description: Soil derived from calcareous marine alluvium, yellowish in colour, sandy, high base saturation, excessively drained, very deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK3070
Feature Name: SERAI series
Description: Soil formed on beach ridge, grayish in colour, sandy, low base saturation, excessively drained, very deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK3080
Feature Name: BERGOSONG series
Description: Soil derived from sulphidic alluvium, grayish in colour, fine silty, high base saturation, very poorly drained, deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code: SK3090
Feature Name: WESTON series
Description: Soil derived from sulphidic alluvium, grayish in colour, coarse loamy, low base saturation, poorly drained, moderately deep profile
Feature Class: Polygon
Possible Attribute: Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3100
Feature Name:	BERHALA series
Description:	Soil derived from calcareous marine alluvium, brownish in colour, sandy, high base saturation, very poorly drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3110
Feature Name:	GUAN series
Description:	Soil derived from recent alluvium, brownish in colour, fine clayey, low base saturation, very poorly drained, very deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3120
Feature Name:	KALIBONG series
Description:	Soil derived from marine alluvium, grayish in colour, fine clayey, high base saturation, poorly drained, very deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3130
Feature Name:	NUNUYAN series
Description:	Soil derived from calcareous marine alluvium, grayish in colour, coarse loamy, high base saturation, somewhat poorly drained, very deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3140
Feature Name:	LIBUR series
Description:	Soil derived from marine alluvium, grayish in colour, very fine clayey, high base saturation, somewhat poorly drained, very deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3150
Feature Name:	PEGALAN series
Description:	Soil derived from recent alluvium, yellowish in colour, coarse loamy, high base saturation, moderately well drained, very deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3160
Feature Name:	TENGHILAN series
Description:	Soil derived from recent alluvium, yellowish in colour, coarse loamy, low base saturation, moderately well to well drained, deep profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

Feature Code:	SK3170
Feature Name:	KIDUKAROK series
Description:	Soil derived from sandstone, grayish in colour, fine loamy, low base saturation, poorly drained, shallow profile
Feature Class:	Polygon
Possible Attribute:	Label (LBL), Soil Local Family Name (SLF), FAO-Unesco Legend (FAO), USDA Soil Taxonomy Subgroup (SSG), Soil Particle Size Class (SPS), Soil Minerology Class (SMN), Soil Temperature Regime (STM), Soil Parent Material (SPA), Soil Textural Class (STC), Soil Profile Development (SPD), Soil Colour Group(SCG), Soil Matrix Colour (SMC), Soil Drainage Class (SDC), Soil Depth to Pedological Features(SDP), Soil Pedological Features Type (SPF), Thickness of Pedological features type (STH), Abundance of Pedological features type(SFA), Thickness of Organic layer(STO), Soil Material Type Underlying Peat(SMP), Soil Terrain Class (STT), Soil Cation Exchange Capacity (CEC), Soil Base saturation (SBS), Soil pH-range(SPH), Soil Salinity(SSL), Area Measured in Hectares(ARH)

T - TRANSPORTATION

TA - Land Transportation

Feature Code:	**TA0010**
Feature Name:	Rail Line
Description:	A track on which trains run.
Feature Class:	Line
Possible Attribute:	Name (NAM), Rail Usage (RTU), Rail Tracking (RTR), Rail Track Function (RTF), Rail Track Electrification (RTE), Status (STA), Grade Location (GRL)
Feature Code:	**TA0020**
Feature Name:	Rail Station
Description:	A place where trains stop to load and unload passengers and goods including its associated buildings and facilities.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Rail Track Category (RTC), Status (STA), Grade Location (GRL), Rail Station Type (RST), Rail Usage (RTU)
Feature Code:	**TA0030**
Feature Name:	Rail Yard
Description:	A series of railway sidings at a station, terminal or depot where the activities of train formation is concentrated.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)
Feature Code:	**TA0040**
Feature Name:	Turntable
Description:	A structure that rotate railway vehicles and machineries.
Feature Class:	Point
Possible Attribute:	Name (NAM)
Feature Code:	**TA0050**
Feature Name:	Railway Gate
Description:	A gate for train to cross a road at grade level.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Railway Gate Type (RGT)
Feature Code:	**TA0060**
Feature Name:	Road
Description:	The center line of an established surface on the right of way for exclusive use of vehicles.
Feature Class:	Line
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Toll (TOL), Carriageway Type (CWT), Traffic Flow (RDF), Route Number (RTN), Number of Lane (LAN), Status (STA), Road Pavement Type (RPV), Custodian(CUS), Authority (AUT), Road Category (RDC), Road Service Area (RDS), Pavement Surface Type (PVT), Road Surface Composition (RSC) , Road Class (RCS), Road Level Height (RLH), Width of Lane (WLN), Level of Service (LVS), Capacity Value (CPV), Section Number (SEC), International Roughness Index (IRI)

Feature Code:	**TA0061**
Feature Name:	Road Edge
Description:	The edge of paved road which does not includes paved gutters and drainage ditches.
Feature Class:	Line
Possible Attribute:	Name (NAM), Carriageway Type (CWT), Route Number (RTN), Status (STA), Road Pavement Type (RPV), Road Service Area (RDS), Custodian (CUS), Authority (AUT), Road Category (RDC), Road Surface Composition (RSC), Pavement Surface Type (PVT).

Feature Code	**TA0062**
Feature Name	Road Surface Physical
Description	An established surface of the road between road edges
Feature Class	Polygon
Possible Attribute	Name (NAM), Area Measured (m^2)(ARM), Toll (TOL), Carriageway Type (CWT), Traffic Flow (RDF), Route Number (RTN), Number of Lane (LAN), Status (STA), Road Pavement Type (RPV), Custodian (CUS), Date of Maintenance Start (DMS), Date of Maintenance End (DME), Authority (AUT), Road Category (RDC), Road Service Area (RDS), Pavement Surface Type (PVT), Road Surface Composition (RSC), Road Class (RCS), Road Level Height (RLH), Width of Lane (WLN), Level of Service (LVS), Capacity Value (CPV), Section Number (SEC), International Roughness Index (IRI), Mean Sea Level (MSL), Federal Road Category (RCF)

Feature Code	**TA0063**
Feature Name	Road Line Edge Marking
Description	The white line marking at the edge of the road
Feature Class	Line
Possible Attribute	Name (NAM), Carriageway Type (CWT), Route Number (RTN), Status (STA), Road Pavement Type (RPV), Road Service Area (RDS), Custodian (CUS), Authority (AUT), Road Category (RDC),

Feature Code	**TA0064**
Feature Name	Road Line Marking
Description	The white line marking which divides the type of lanes.
Feature Class	Line
Possible Attribute	Name (NAM), Carriageway Type (CWT), Route Number (RTN), Status (STA), Road Pavement Type (RPV), Road Service Area (RDS), Custodian (CUS), Authority (AUT), Road Category (RDC),

Feature Code	**TA0065**
Feature Name	Road Lane
Description	An established surface of the road between road line marking.
Feature Class	Polygon
Possible Attribute	Name (NAM), Carriageway Type (CWT), Route Number (RTN), Status (STA), Road Pavement Type (RPV), Road Service Area (RDS), Custodian (CUS), Authority (AUT), Road Category (RDC), Type of Lane (TLN)

Feature Code	**TA 0066**
Feature Name	Motorcycle Lane
Description	As a part of road used by the motorcycle.
Feature Class	Polygon
Possible Attribute	Name (NAM), Road Surface Composition (RSC), Authority (AUT), Route Number (RTN), Status (STA), Custodian (CUS), Road Pavement Type (RPV), Road Category (RDC), Road Service Area (RDS), Section Number (SEC), Pavement Surface Type (PVT), Type of Cycle Lane (TCL)

Feature Code	**TA 0067**
Feature Name	Motorcycle Lane Edge
Description	The edge of motorcycle lane which does not includes paved gutters and drainage ditches .
Feature Class	Line
Possible Attribute	Name (NAM), Road Surface Composition (RSC), Custodian (CUS), Status (STA), Authority (AUT), Road Pavement Type (RPV), Route Number (RTN), Road Category (RDC), Road Service Area (RDS), Section Number (SEC), Pavement Surface Type (PVT)

Feature Code	**TA 0068**
Feature Name	Cycle Lane
Description	As a part of road used by the cyclist.
Feature Class	Polygon
Possible Attribute	Name (NAM), Road Surface Composition (RSC), Authority (AUT), Route Number (RTN), Status (STA), Custodian (CUS), Road Pavement Type (RPV), Road Category (RDC), Road Service Area (RDS), Route Number (RTN), Section Number (SEC), Pavement Surface Type (PVT),

Feature Code	**TA 0069**
Feature Name	Cycle Lane Edge
Description	The edge of cycle lane which does not includes paved gutters and drainage ditches .
Feature Class	Line
Possible Attribute	Name (NAM), Road Surface Composition (RSC), Custodian (CUS), Status (STA), Authority (AUT), Road Pavement Type (RPV), Route Number (RTN), Road Category (RDC), Road Service Area (RDS), Pavement Surface Type (PVT),

Feature Code	**TA0070**
Feature Name	Scupper Drain
Description	Water controlling beyond the roadway, including water coming from the roadway surface and out subsurface drains.
Feature Class	Point
Possible Attribute	Identification Number (IDN), Status (STA), Authority (AUT), Route Number (RTN), Project or Company Name (PRJ), Section Number (SEC),

Feature Code	**TA 0071**
Feature Name	Motorcycle Shelter
Description	A place at the side of the road designed for motorcyclist take shelter.
Feature Class	Point
Possible Attribute	Name (NAM), Authority (AUT), Route Number (RTN), Custodian (CUS), Status (STA), Date (DAT), Direction (DIR), Motorcycle Shelter Structure (MSS)

Feature Code:	**TA0080**
Feature Name:	Slip Road
Definition:	A short one-way road at junction connecting adjacent road to ease traffic flow.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Direction (DIR), Number of Lane (LAN), Status (STA), Road Surface Composition (RSC), Authority (AUT), Road Class (RCS), Pavement Surface Type (PVT), Road Level Height (RLH), Width of Lane (WLN). Road Surface Composition (RSC)

Feature Code:	**TA0090**
Feature Name:	Road Junction
Definition:	A point where two or more roads cross or meet.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Signalisation (SIG), Number of Direction (NOD), Identification Number (IDN), Route Number (RTN), Carriageway Type (CWT), Status (STA), Road Pavement Type (RPV), Custodian (CUS), Road Service Area (RDS),Authority (AUT), Road Category (RDC), Type of Road Junction (TJC), Section Number (SEC), Road Surface Composition (RSC), Pavement Surface Type (PVT).

Feature Code:	**TA0100**
Feature Name:	Round-about
Definition:	A road junction designed for movement of traffic in one direction around a central island.
Feature Class:	Polygon, Point
Possible Attribute:	Name (NAM), Identification Number (IDN), Signalisation (SIG), Number of Lane (LAN), Status (STA), Road Surface Composition (RSC), Authority (AUT), Route Number (RTN), Road Category (RDC), Carriageway Type (CWT), Traffic Flow (RDF), Custodian (CUS), Road Pavement Type (RPV), Road Service Area (RDS), Road Surface Composition (RSC), Section Number (SEC), Road Class (RCS), Pavement Surface Type (PVT), Width of Lane (WLN).

Feature Code:	**TA0110**
Feature Name:	Track
Description:	The path of travels other than roads.
Feature Class:	Line
Possible Attribute:	Name (NAM), Track Type (TCT), Track Category (TCC), Route Number (RTN), Pavement Surface Type (PVT),

Feature Code:	**TA0111**
Feature Name:	Track Edge
Description:	The edge of Track
Feature Class:	Line
Possible Attribute:	Track Type (TCT), Track Category(TCC)

Feature Code:	**TA0120**
Feature Name:	Interchange
Description:	A road crossing with a structure that is built to provide dispersion of traffic.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Interchange Type (ITT), Vertical Clearance (VTC), Route Number (RTN), Section Number (SEC), Road Level Height (RLH)

Feature Code:	**TA0130**
Feature Name:	Lay-by
Description:	A recession along the road for vehicles to pull over or along the highway for stops on 24/7 basis with basic facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Lay-by Usage (LAU), Route Number (RTN), Direction (DIR), Section Number (SEC)

Feature Code:	**TA0140**
Feature Name:	Overhead Crossing
Description:	A bridge that offers pedestrians and cyclists the safest means of crossing a road.
Feature Class:	Point, Line
Possible Attribute:	Name (NAM), Passage Usage (PAU), Vertical Clearance (VTC), Identification Number (IDN)

Feature Code:	**TA0150**
Feature Name:	Toll Plaza
Description:	A structure along highways where toll charges are collected.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Electronic Toll Collection (TEC), Toll Operating System (TOS)

Feature Code	**TA 0151**
Feature Name	Toll Plaza Complex
Description	An area comprising more than one building specifically built to be used for toll administrative office, prayer room, toilets and other needs
Feature Class	Polygon
Possible Attribute	Name (NAM), Area Measured (m^2) (ARM), Authority (AUT), Status (STA), Date (DAT), Direction (DIR)

Feature Code	**TA 0155**
Feature Name	Rest and Service Area
Description	A facility along the highway where users can refresh, take a rest and refill fuel on 24/7 basis.
Feature Class	Polygon
Possible Attribute	Name (NAM), Area Measured (m^2) (ARM), Authority (AUT), Status (STA), Date (DAT), Route Number (RTN), Direction (DIR), Information Kiosk (KSK)

Feature Code:	**TA0160**
Feature Name:	Subway
Description:	A passage below the surface of the road that offers pedestrians and cyclists the safest means of crossing a road.
Feature Class:	Point, Line
Possible Attribute:	Name (NAM), Passage Usage (PAU), Length (LEN), Width (WID), Vertical Clearance (VTC)

Feature Code:	**TA0170**
Feature Name:	Traffic Sign
Description:	A devise mounted on a fixed or portable support whereby a specific message is conveyed by means of word or symbols.
Feature Class:	Point
Possible Attribute:	Name (NAM), Traffic Sign Type (TRA), Route Number (RTN), Section Number (SEC), Road Regulartory Sign (RGS), Road Warning Sign (RWN), Road Guide Sign (RGU)

Feature Code	**TA 0175**
Feature Name	Variable Message Sign
Description	Location of LED (Light Emitting Diode) display board often used to display traffic related information.
Feature Class	Point
Possible Attribute	Name (NAM), Authority (AUT), Date (DAT), Status (STA), Route Number (RTN), Section Number (SEC), Type of VMS Structure (VMS), Type of Display Board (DBT), Direction (DIR)

Feature Code:	**TA0180**
Feature Name:	Kilometer Post
Description:	A post consists of information of destination and the distance to the destination installed at every kilometer spacing along a road.
Feature Class:	Point
Possible Attribute:	Name (NAM), Identification Number (IDN), Kilometer Post Type (KMT), Kilometer Post Type (KMT), Route Number (RTN), Kilometer Post Usage (KMU), Primary Destination_1 (PD1), Distance_1 (DS1), Secondary Distance_2 (SD2), Distance_2 (DS2)

Feature Code:	**TA0190**
Feature Name:	Traffic Light
Description:	A device electrically operated by which traffic is alternately directed to stop and permitted to proceed at road intersections.
Feature Class:	Point
Possible Attribute:	Name (NAM), Identification Number (IDN), Height (HEI), Length (LEN), Route Number (RTN), Traffic Light Pole Type (TLP), Traffic Light Cable Type (TLC), Quantity of Traffic Light Pole (TLQ), Type of Traffic Light Aspect (TLA)

Feature Code:	**TA0200**
Feature Name:	Pedestrian Crossing
Description:	A zone, usually painted in stripes, designed for pedestrian to cross a road.
Feature Class:	Point, Line
Possible Attribute:	Name (NAM), Signalisation (SIG), Identification Number (IDN), Route Number (RTN)

Feature Code:	**TA0210**
Feature Name:	Cable Car Route
Description:	A specific thoroughfare reserved for the use and operation of cable cars.
Feature Class:	Line
Possible Attribute:	Name (NAM), Authority (AUT), Cable Car Type (CCT), Route Number (RTN)

Feature Code:	**TA0220**
Feature Name:	Cable Car Station
Description:	A building at the end of a cable car route used for the administration and operation of cable cars.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**TA0230**
Feature Name:	Tunnel
Description:	An enclosed passage constructed at grade, underground or underwater, open at both ends, usually contains a road or railway or for flood mitigation or for multimode (flood and road).
Feature Class:	Point, Line
Possible Attribute:	Name (NAM), Tunnel Usage (TNU), Length (LEN), Width (WID), Vertical Clearance (VTC), Custodian (CUS), Authority (AUT), Air Quality Monitoring Tunnel (TQM)

Feature Code:	**TA0240**
Feature Name:	Bridge
Description:	A structure erected over a depression or an obstruction such as river, road or railway and having a passageway which allows traffic to cross from one side to the other.
Feature Class:	Point, Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Identification Number (IDN), Bridge Construction Material Type (BMT), Bridge Structural System Type (BST), Bridge Deck Type (BKT), Bridge Abutment Type (BAT), Bridge Swingability (BRS), Number of Bridge Span (NBS), Length (LEN), Width (WID), Vertical Clearance (VTC), Bridge Usage (BRU)

Feature Code:	**TA0250**
Feature Name:	Bridge Pier
Definition:	An intermediate support for bridge deck structures.
Feature Class:	Point
Possible Attribute:	Name (NAM), Identification Number (IDN), Height (HEI)

Feature Code:	**TA0260**
Feature Name:	Causeway
Description:	A raised road or rail track across wet or marshy ground, or water.
Feature Class:	Line, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Length (LEN), Route Number (RTN)

Feature Code:	**TA0270**
Feature Name:	Inland Port
Description:	A place located inland and equipped with facilities for loading and unloading of international cargo.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code	**TA0280**
Feature Name	Road Slope Protection
Description	A built up feature to stabilize slopes along the road
Feature Class	Line, polygon
Possible Attribute	Name (NAM), Authority (AUT), Date (DAT), Status (STA), Route Number (RTN), ection Number (SEC), Type of Slope Protection (TYP)

Feature Code	**TA0281**
Feature Name	Road Slope Drain
Description	A drain which carries disperse water from top to lower in order to maintain the stability of slope along the road.
Feature Class	Line
Possible Attribute	Name (NAM), Authority (AUT), Date (DAT), Status (STA), Drain Conveyance (DRV), Drain Usage (DRU), Drain Category (DRC), Drain Structure (DRS), Slope Drain Category (DSC)

Feature Code	**TA 0290**
Feature Name	Kerb
Description	A concrete border or row of joined stone forming parts of a gutter along the edge of the road.
Feature Class	Line
Possible Attribute	Name (NAM), Authority (AUT), Date (DAT), Status (STA), Route Number (RTN), Identification Name (IDN), Project Name (PRJ) , Section Number (SEC)

Feature Code	**TA 0300**
Feature Name	Road Median
Description	A dividing area either paved or landscape between opposing lanes of traffic on certain roads.
Feature Class	Line
Possible Attribute	Identification Name (IDN), Authority (AUT), Date (DAT), Status (STA), Route Number (RTN), Section Number (SEC), Type of Road Median (MED)

Feature Code	**TA0310**
Feature Name	Road Traffic Safety Barrier
Description	A safety feature built as a barrier to prevent vehicle from colliding with dangerous obstacle area such as height, drains, ditches, ravines and opposing carriage way
Feature Class	Line
Possible Attribute	Name (NAM), Length (LEN), Route Number (RTN), Custodian (CUS), Date (DAT), Status (STA), Section Number (SEC), Type of Traffic Safety Barrier (TSB)

Feature Code	**TA0311**
Feature Name	Road Noise Barrier
Description	A solid feature built between the highway and buildings to protect from noise pollution.
Feature Class	Line,
Possible Attribute	Name (NAM), Length (LEN), Route Number (RTN), Custodian (CUS), Date (DAT), Status (STA), Section_Number (SEC), Direction (DIR), Type of Road Noise Barrier (NBT), Road Noise Barrier Structure (NBR)

Feature Code	**TA 0312**
Feature Name	Road Traffic Safety Device
Description	A safety device built along the road or attached to the road surface as a guide to road users.
Feature Class	Point
Possible Attribute	Name (NAM), Date (DAT), Authority (AUT), Status (STA), Route Number (RTN), Section Number (SEC), Road Traffic Safety Devices Type (TSD)

Feature Code	**TA0313**
Feature Name	Road Pavement Marking
Description	Marking paint on the road pavement used to guide traffic movement and to provide visual information to the road users.
Feature Class	Point
Possible Attribute	Name (NAM), Route Number (RTN), Section Number (SEC), Location of Road Marking (RML), Road Marking Type (RMT)

Feature Code	**TA 0314**
Feature Name	Road Brake Failure Area
Description	An area at the side of the road designed to stop the vehicles with brake failure for safety proposes.
Feature Class	Polygon
Possible Attribute	Name (NAM), ARM, Date (DAT), Authority (AUT), Status (STA), Route Number (RTN), Section Number (SEC)

Feature Code	**TA 0320**
Feature Name	Weighting Station Complex
Description	A weigh station is a checkpoint along a highway to inspect vehicular weights
Feature Class	Polygon
Possible Attribute	Name (NAM), Date (DAT), Authority (AUT), ARM, Status (STA), Route Number (RTN), Section Number (SEC)

TB - Water Transportation

Feature Code:	**TB0010**
Feature Name:	Water Route
Description:	A route in a designated area within a define limits which have been accurately surveyed for clearance of sea bottom and submerged obstacle to a minimum indicated depth of water for safe passage of ships.
Feature Class:	Line
Possible Attribute:	Name (NAM), Water Route Usage (WRU)

U - UTILITY

UA - Electricity

Feature Code:	**UA0010**
Feature Name:	Power Line
Description:	Cables that carry electricity power.
Feature Class:	Line
Possible Attribute:	Name (NAM), Grade Location (GRL) Power Line Characteristics (PLC), Power Line Type (PLT), Voltage (VLT), Custodian (CUS), Number (NUM)

Feature Code:	**UA0011**
Feature Name:	Electricity Cable Depth
Description:	Point along electricity cable showing depth obtained through direct measurement or detection of any measuring or detecting equipment
Feature Class:	Point
Possible Attribute:	Name (NAM), Depth (DPT)

Feature Code:	**UA0012**
Feature Name:	Electricity Cable Marker
Description:	A marker attached to permanent structure or located on the ground that described the underground power cable route
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UA0020**
Feature Name:	Street Light
Description:	Structures that provide lighting to streets.
Feature Class:	Point
Possible Attribute:	Name (NAM), Street Light Category (SLC), Custodian (CUS), Number (NUM), Type of Street Light (TSL)

Feature Code	**UA0021**
Feature Name	Lamp Pole
Description	Structures that provide lighting to public places excluding street light
Feature Class	Point
Possible Attribute	Name (NAM) ,Custodian (CUS), Status (STA), Date (DAT), Lamp Pole Usage (LPU), Lamp Pole Type (LPT)

Feature Code	**UA 0022**
Feature Name	Highmast
Description	A lighting system for large areas in which masts giving a mounting height of 18m or more, normally carry cluster of luminaries.
Feature Class	Point
Possible Attribute	Name (NAM), Authority (AUT), Status (STA), Date (DAT), Height (HEI), Route Number (RTN), Road Location (RDL), Section Number (SEC), Highmast Usage (HMU), Aviation Light (AVL)

Feature Code	**UA 0023**
Feature Name	Underpass Lighting
Description	A lighting system which is installed at underpasses or tunnels for good visibility.
Feature Class	Point
Possible Attribute	Name (NAM), Custodian (CUS), Status (STA), Date (DAT), Route Number (RTN), Road Location (RDL), Section Number (SEC)

Feature Code:	**UA0030**
Feature Name:	Power Station
Description:	Installations that generate electricity power.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Power Station Type (PST)

Feature Code:	**UA0040**
Feature Name:	Substation & Switching Station
Description:	Installations that distribute or transform electric voltage from one level to another.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Substation Category (SSC), Custodian (CUS), Number (NUM), Substation Type (SST)

Feature Code:	**UA0050**
Feature Name:	Pole
Description:	Structure made of wood/~~iron~~ steel/concrete to support overhead cables.
Feature Class:	Point
Possible Attribute:	Name (NAM), Pole Usage (POU), Custodian (CUS), Number (NUM)

Feature Code:	**UA0060**
Feature Name:	Feeder Pillar
Description:	Equipments that branches low voltage underground cables single or dual to a multiple.
Feature Class:	Point
Possible Attribute:	Name (NAM), Custodian (CUS), Number (NUM)

Feature Code:	**UA0070**
Feature Name:	Pylon
Description:	Structure made of iron or concrete to support cables for electric power transmission and movement of cable cars.
Feature Class:	Point
Possible Attribute:	Name (NAM), Pylon Usage (PYU), Custodian (CUS), Number (NUM)

Feature Code:	**UA0080**
Feature Name:	Meter
Description:	A gadget used to record electricity flow and usage.
Feature Class:	Point
Possible Attribute:	Name (NAM), Custodian (CUS), Number (NUM)

Feature Code:	**UA0090**
Feature Name:	Electricity Manhole
Description:	End of the duct path where the underground power cable is interconnected.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UA0100**
Feature Name:	Electricity Traffic Light Sensor Cable
Description:	Wire embedded in the road's Surface used to sense traffic
Feature Class:	Point
Possible Attribute:	Name (NAM), Custodian (CUS)

Feature Code	**UA 0110**
Feature Name	Closed Circuit Television
Description	Camera system installed at the roadside or public places and use either for surveillance or observe traffic condition and collecting traffic data.
Feature Class	Point
Possible Attribute	Identification Number (IDN), Name (NAM), Custodian (CUS), Status (STA), Date (DAT), Route Number (RTN), Road Location (RDL), Section Number (SEC), Direction (DIR), Closed Circuit Television Type (CTV), Closed Circuit Television Usage (CTU), Closed Circuit Television Support (CTS), Camera Type (CTM)

UB – Telecommunication

Feature Code:	**UB0010**
Feature Name:	Telephone Exchange / Switch
Description:	Telephone Exchange Switch for remote area
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0020**
Feature Name:	Telecommunication Manhole
Description:	End of the duct path where the underground cable is interconnected.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0030**
Feature Name:	Pier Crossing
Description:	A structure crossing a small river or monsoon drain to support cable duct.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**UB0040**
Feature Name:	Telecommunication Tunnel
Description:	Replacement of the duct ways to cater for the high number of cables (more than 48 cables).
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**UB0050**
Feature Name:	Duct Way
Description:	A cylindrical conduit provided between two manholes to pull cables and prevent from mechanical damage.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**UB0060**
Feature Name:	Cabinet
Description:	A passive cross connection point of main cables and distribution cables and installed, mostly, at road junctions.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0070**
Feature Name:	Distribution Point
Description:	Distribution cables that start from Cabinet and end at the Distribution Point.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0080**
Feature Name:	Main Distribution Frame
Description:	Cable distribution frame installed at Exchange where copper cable starts and terminates at cabinet
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0090**
Feature Name:	Fibre Distribution Frame
Description:	Installed in the telephone exchanger or subscriber premises to interconnect external cable.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0100**
Feature Name:	Tap Block
Description:	Cable connecting exchange to exchange, cabinet to cabinet, or Distribution Point to Distribution Point.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0110**
Feature Name:	Fibre Optic Cable
Description:	Cable that carries the light signal.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**UB0120**
Feature Name:	Remote Terminal
Description:	Place to terminate the fibre optic cable where the light signal is converted to current on individual channel.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0130**
Feature Name:	Station / VSAT Station
Description:	Fixed satellite station / VSAT Station, which accommodates the parabolic antenna to receive/transmit signal from space satellite.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**UB0150**
Feature Name:	Cellular Radio Base Station
Description:	Radio Base Station which accommodates the telecommunication tower and base station
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**UB0160**
Feature Name:	Exchange Building
Description:	Building that accommodates the switching equipment and cables.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**UB0170**
Feature Name:	Hill Station
Description:	Hill Station that accommodates a tower station for transmitting and receiving radio signals.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**UB0180**
Feature Name:	Telecommunication Tower
Description:	Tower station where radio signal is transmitted / received
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0200**
Feature Name:	Transmitter / Receiver
Description:	Transmission / Receiving Equipment.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0220**
Feature Name:	Repeater
Description:	Repeater Equipment.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UB0250**
Feature Name:	Telecom Cable
Description:	Telecommunication cable belonging to telecommunication operators.
Feature Class:	Line
Possible Attribute:	Name (NAM), Telecommunication Operators (TCO)

Feature Code:	**UB0251**
Feature Name:	Telecom Cable Depth
Description:	Point along telecommunication cable showing depth obtained through direct measurement or detection of any measuring or detecting equipment.
Feature Class:	Point
Possible Attribute:	Name (NAM), Depth (DPT)

Feature Code:	**UB0300**
Feature Name:	Phone Booth
Description:	A small structure that is partly or completely enclosed, containing telephone for public use
Feature Class:	Point
Possible Attribute:	Name (NAM), Telecommunication Operators (TCO)

Feature Code:	**UB0310**
Feature Name:	Radio Antenna
Description:	Antenna for point to point radio communication where signal is transmitted /received
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code	**UB 0320**
Feature Name	Emergency Telephone
Description	A device for transmitting information between pre-established point located along the highway and the Traffic Control and Surveillance System (TCSS) room using a two way communication system.
Feature Class	Point
Possible Attribute	Name (NAM) , Custodian (CUS), Date (DAT), Status (STA), Route Number (RTN), Section Number (SEC), Direction (DIR), Emergency Telephone Structure (ETS), Emergency Telephone Network (ETN)

UC - Water Supply

Feature Code:	**UC0010**
Feature Name:	Bunded Storage
Description:	Storage facilities for storing water resources.
Feature Class:	Polygon, Point
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**UC0020**
Feature Name:	Water Treatment Plant
Description:	An engineering structure built for treatment of raw water.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**UC0030**
Feature Name:	Water Intakes
Description:	An engineering structure built for river water extraction.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UC0040**
Feature Name:	River Gate
Description:	An engineering structure built across a river to raise the water level for river water extraction.
Feature Class:	Point
Possible Attribute:	Name (NAM)

U - UTILITY

UC - Water Supply

Feature Code:	**UC0060**
Feature Name:	Reservoir
Description:	A structure used for storage and regulation of water
Feature Class:	Polygon, Point
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Reservoir Type (RVT), Custodian (CUS), Authority (AUT), Reservoir Usase (RVU), Reservoir/Water Tank Category (RWC)

Feature Code:	**UC0070**
Feature Name:	Water Pump
Description:	Equipment for pumping water.
Feature Class:	Point, Line
Possible Attribute:	Name (NAM), Water Pump Category (WPC), Water Pump Type (WPT)

Feature Code:	**UC0080**
Feature Name:	Pump House
Description:	Building constructed to house water pumps and its mechanical and electrical facilities.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Pump House Usage (PHU)

Feature Code:	**UC0100**
Feature Name:	Water Tank
Description:	Storage structure for storing water to be pumped.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Tank Type (TAT), Reservoir/Water Tank Category (RWC)

Feature Code:	**UC0110**
Feature Name:	Water Pipe
Description:	A string of-pipes use for the transporting raw or treated water.
Feature Class:	Line
Possible Attribute:	Name (NAM), Water Pipe Type (WIT), Grade Location (GRL), Water Pipe Material (WPM)

Feature Code:	**UC0111**
Feature Name:	Water Pipeline Depth
Description:	Point along water pipeline showing depth obtained through direct measurement or detection of any measuring or detecting equipment.
Feature Class:	Point
Possible Attribute:	Name (NAM), Depth (DPT)

Feature Code:	**UC0120**
Feature Name:	Water Valve
Description:	Water facilities for controlling water flow, air and pressure.
Feature Class:	Point
Possible Attribute:	Name (NAM), Water Valve Type (WVT)

Feature Code: **UC0130**
Feature Name: Fire Hydrant
Description: Water facilities along main pipes used for fighting fires
Feature Class: Point
Possible Attribute: Name (NAM)

Feature Code: **UC0140**
Feature Name: Water Meter
Description: Meter used to record water flow and usage.
Feature Class: Point
Possible Attribute: Name (NAM)

Feature Code: **UC0150**
Feature Name: Remote Terminal Unit
Description: Communication facilities for receiving and transmitting signals.
Feature Class: Point
Possible Attribute: Name (NAM)

Feature Code: **UC0160**
Feature Name: Water Quality Monitoring System
Description: Facilities to monitor water quality.
Feature Class: Point
Possible Attribute: Name (NAM)

Feature Code: **UC0170**
Feature Name: Chlorine Booster Station
Description: Facilities for boosting chlorine level.
Feature Class: Point
Possible Attribute: Name (NAM)

Feature Code: **UC0180**
Feature Name: Water Tunnel
Description: Underground aqueduct for raw water transmission.
Feature Class: Line
Possible Attribute: Name (NAM)

Feature Code: **UC0190**
Feature Name: Supply Zone
Description: Supply area of a service reservoir or a distribution main.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM), Supply Zone Type (SZT)

Feature Code: **UC0200**
Feature Name: Non-Revenue Water Control Zone
Description: A definite supply area where non-revenue water control measure is imposed.
Feature Class: Polygon, Point
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code: **UC0210**
Feature Name: Metering Zone
Description: An area representing a group of water meters.
Feature Class: Polygon, Point
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**UC0220**
Feature Name:	Water Supply Manhole
Description:	Chamber containing valve or flowmeter at various locations along water supply lines used for maintenance purposes.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM)

UD - Oil and Gas

Feature Code:	**UD0010**
Feature Name:	Processing Plant
Description:	A complex where raw oil/gas is processed.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Processing Plant Type (PRT)

Feature Code:	**UD0020**
Feature Name:	City Gate Station
Description:	A regulating and metering stn located just after a tee valve off the PGU pipeline owned by Petronas which links up to GMSB's gas pipeline distribution system where the gas pressure of 500 - 800 psi is reduced to 260 psi. It also acts as a Custody Transfer Point for natural gas, between PGB and GMSB.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**UD0030**
Feature Name:	Odoriser Station
Description:	An odorant dispensing facility located immediately after the City Gate Station where odorant is injected into the gas to odorise it so as to meet safety requirements before supplying to customers.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**UD0040**
Feature Name:	District Station
Description:	A regulating station where the feeder pipeline gas pressure is reduced from 260 psi to 60 psi before it enters GMSB's distribution pipeline.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**UD0050**
Feature Name:	Regulating Station
Description:	A regulating station where GMSB's distribution pipeline gas pressure of 60 psi is reduced to 4.3 psi before supply to the commercial customers.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**UD0060**
Feature Name:	Area Station
Description:	A regulating station where GMSB's distribution pipeline gas pressure of 60 psi is reduced to 0.43 psi before supply to residential customers.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**UD0070**
Feature Name:	Service Station
Description:	A station with gas measurement and pressure regulating facilities where gas is received directly from the gas pipeline distribution system and which thereafter delivers the gas through the customer owned internal piping to the gas appliances.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**UD0071**
Feature Name:	Gas Meter
Description:	A gadget to record gas flow and usage
Feature Class:	Point,
Possible Attribute:	Name (NAM),

Feature Code:	**UD0080**
Feature Name:	Oil Pipeline
Description:	A pipeline for transporting oil.
Feature Class:	Line
Possible Attribute:	Name (NAM), Grade Location (GRL)

Feature Code:	**UD0081**
Feature Name:	Oil Pipeline Depth
Description:	Point along oil pipeline showing depth obtained through direct measurement or detection of any measuring or detecting equipment.
Feature Class:	Point,
Possible Attribute:	Name (NAM), Depth (DPT)

Feature Code:	**UD0082**
Feature Name:	Oil Valve
Description:	Valve along oil pipelines for controlling oil flow
Feature Class:	Point,
Possible Attribute:	Name (NAM),

Feature Code:	**UD0083**
Feature Name:	Oil Tank
Description:	A large container use for storing oil
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Tank Type (TAT)

Feature Code:	**UD0084**
Feature Name:	Oil Pipe Marker
Description:	A marker attached to permanent structure or located on the ground that described the underground oil pipe route.
Feature Class:	Point,
Possible Attribute:	Name (NAM),

Feature Code: **UD0085**
Feature Name: Oil Derrick
Description: A large container on ground or tower used for storing of water.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM)

Feature Code: **UD0090**
Feature Name: Gas Pipeline
Description: A Pipeline for transporting gas
Feature Class: Line
Possible Attribute: Name (NAM), Grade Location (GRL), Gas Pipeline Type (GET)

Feature Code: **UD0091**
Feature Name: Gas Pipeline Depth
Description: Point along gas pipeline showing depth obtained through direct measurement or detection of any measuring or detecting equipment.
Feature Class: Point,
Possible Attribute: Name (NAM), Depth (DPT)

Feature Code: **UD0092**
Feature Name: Gas Valve
Description: Valve along gas pipelines for controlling gas flow
Feature Class: Point,
Possible Attribute: Name (NAM), Valve Material Type (VMT)

Feature Code: **UD0093**
Feature Name: Gas Tank
Description: A large container use for storing gas.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM), Area Measured (m^2) (ARM), Tank Type (TAT)

Feature Code: **UD0094**
Feature Name: Gas Pipe Marker
Description: A stone marker attached to permanent structure or located on the ground that marks the underground gas pipe route.
Feature Class: Point,
Possible Attribute: Name (NAM), Gas Marker Type (GMT)

Feature Code: **UD0095**
Feature Name: Gas Warning Signboard
Description: Signboard showing the location of an underground gas pipeline within the vicinity.
Feature Class: Point, Polygon
Possible Attribute: Name (NAM),

UE - Broadcasting

Feature Code:	**UE0010**
Feature Name:	Radio Station
Description:	A complex where signals for radio broadcasting is managed.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**UE0020**
Feature Name:	Television Station
Description:	A complex where signals for television broadcasting is managed.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**UE0030**
Feature Name:	Transmission Station
Description:	A complex where signals for radio or television broadcasting is transmitted.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**UE0040**
Feature Name:	Monitoring Station
Description:	Facility where off air signals are intercepted and processed to monitor its contents and quality.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**UE0050**
Feature Name:	Broadcasting Coverage Area
Description:	An area of coverage of certain band of signal.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

UF - Sewerage

Feature Code:	**UF0010**
Feature Name:	Sewerage Treatment Plant
Description:	Site that contains facilities for treating sewage.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM), Sewerage Treatment Plant Type (STT), Sewerage Treatment Plant Category (STP)

Feature Code:	**UF0020**
Feature Name:	Sewerage Pump Station
Description:	Site that contains facilities for pumping sewage to the sewerage treatment plant.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m²) (ARM)

Feature Code:	**UF0030**
Feature Name:	Sewerage Manhole
Description:	Opening at various locations along sewerage lines for maintenance purposes.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UF0040**
Feature Name:	Sewerage Pipe
Description:	Pipes that transport sewage.
Feature Class:	Line
Possible Attribute:	Name (NAM), Sewerage Pipe Diameter (SPD), Sewerage Pipe Material (SPM), Sewerage Pipe Type (SPT), Grade Location (GRL)

Feature Code:	**UF0041**
Feature Name:	Sewerage Pipeline Depth
Description:	Point along sewerage pipeline showing depth obtained through direct measurement or detection of any measuring or detecting equipment..
Feature Class:	Point,
Possible Attribute:	Name (NAM), Depth (DPT)

Feature Code:	**UF0050**
Feature Name:	Sewerage Transition Device
Description:	Device for joining pipe end or fittings
Feature Class:	Point,
Possible Attribute:	Name (NAM),

UG - Waste Management

Feature Code:	**UG0010**
Feature Name:	Transportation Route
Description:	A route taken to by transportation vehicles to transfer solid waste to its final disposal sites.
Feature Class:	Line
Possible Attribute:	Name (NAM), Waste Type (WAT)

Feature Code:	**UG0020**
Feature Name:	Waste Treatment Plant
Description:	An installation for processing of waste.
Feature Class:	Point
Possible Attribute:	Name (NAM), Waste Type (WAT)

Feature Code:	**UG0030**
Feature Name:	Transfer Station
Description:	A facility where waste is taken from smaller collection vehicles and placed in larger vehicles for transport, including truck trailers, railroad cars or barges to final disposal sites.
Feature Class:	Point
Possible Attribute:	Name (NAM), Waste Type (WAT)

Feature Code:	**UG0040**
Feature Name:	Incineration Plant
Description:	A facility in which solid waste is combusted.
Feature Class:	Point
Possible Attribute:	Name (NAM), Waste Type (WAT)

Feature Code:	**UG0050**
Feature Name:	Secured Landfill
Description:	A disposal facility, designed to permanently isolate wastes from the environment. This entails burial of the wastes in a landfill that includes clay and/or synthetic liners, leachate collection, gas collection (in cases where gas is generated), and an impermeable cover.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Waste Type (WAT)

Feature Code:	**UG0060**
Feature Name:	Collection Route
Description:	A path regularly followed by a collection vehicle to collect solid waste.
Feature Class:	Line
Possible Attribute:	Name (NAM)

Feature Code:	**UG0070**
Feature Name:	Bin House
Description:	A place where storage containers are placed for collection services of solid waste.
Feature Class:	Point, Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM),

Feature Code:	**UG0080**
Feature Name:	Recycling Centers
Description:	A facility to which individuals bring their recyclable items to be recycled.
Feature Class:	Point
Possible Attribute:	Name (NAM)

Feature Code:	**UG0090**
Feature Name:	Transfer Haulage Network
Description:	Supplemental transportation systems employed to reduce hauling costs by using semi - trailers, railroad cars, or barges to haul from a central point(s) within a jurisdiction to one or more distant solid waste management facilities. The act of transfer includes unloading collection vehicles at the transfer station, loading solid waste from the transfer station to the transfer vehicles, and hauling the solid waste to distant solid waste management facilities.
Feature Class:	Line
Possible Attribute:	Name (NAM)

UH – Meteorological

Feature Code:	**UH0010**
Feature Name:	~~Meteorological Station~~ Principal Station (41 stations)
Description:	Weather station that observe weather elements at surface level for 24 hours a day
Feature Class:	Point
Possible Attribute:	Name (NAM), Meteorological Station ~~Category~~ Type (MSC), Station Identification Number – WMO (IDN)

Feature Code:	**UH0011**
Feature Name:	Automated Station (141 stations)
Description:	An automated weather station that observe 24 hours of weathetr elements.
Feature Class:	Point
Possible Attribute:	Name (NAM), Meteorological Station ~~Category~~ Type (MSC), Station Identification Number – WMO (IDN), ISO Meteorological Amount Measured (IAM)

Feature Code:	**UH0012**
Feature Name:	Climatological Station (40 stations)
Description:	An Auxiliary Meteorological station that observe certain meteorological elements.
Feature Class:	Point
Possible Attribute:	Name (NAM), Meteorological Station ~~Category~~ Type (MSC), Station Identification Number – WMO (IDN), ISO Meteorological Amount Measured (IAM)

Feature Code:	**UH0013**
Feature Name:	Rainfall Station (153 stations)
Description:	An Auxiliary Meteorological station that observe rainfall.
Feature Class:	Point
Possible Attribute:	Name (NAM), Meteorological Station ~~Category~~ Type (MSC), Station Identification Number – WMO (IDN), ISO Meteorological Amount Measured (IAM)

V - VEGETATION

VA – Agriculture

Feature Code:	**VA0000**
Feature Name:	Agriculture
Description:	The science, art, practice and business of cultivating the soil, growing and harvesting crops,raising livestock, biofuel and other products used to sustain human life.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**VA1000**
Feature Name:	Perennials Crops
Description:	Land cultivated with long-term crops which do not have to be replanted for several years (such as cocoa and coffee); land under trees and shrubs producing flowers, such as roses and jasmine; and nurseries (except those for forest trees, which should be classified under "forest").
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**VA1010**
Feature Name:	Mix Traditional Farming
Description:	An area covered with mixture of fruit trees and other perennial crops inclusive of farmers settlement
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1020**
Feature Name:	Cocoa
Description:	An area planted primarily with cocoa which produce chocolate for industries. Cocoa is a tropical rain-forest tree cultivated for its beans which are contained in large numbers in ovoid pods growing directly on the trunk and on the large branches.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1030**
Feature Name:	Coconut
Description:	An area planted primarily with coconuts. Coconuts are classified as a fibrous one-seeded drupe. A drupe is a fruit with a hard stony covering enclosing the seed (like a peach or olive) and comes from the word drupa meaning overripe olive. At an immature stage, the fruit (water coconut) contains mainly water and a little jelly-like meat instead of the hard white flesh (meat - endosperm) found in mature coconuts
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1040**
Feature Name: Rubber (*Hevea brasiliensis*)
Description: An area primarily planted with rubber trees. Rubber tree is a tree in the family Euphorbiaceae and the most important member of the genus Hevea. The tree is economically important as the outcome as latex can be collected and is the primary source of rubber.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1050**
Feature Name: Coffee (*Coffea spp*.)
Description: An area planted primarily with coffee. Coffea is a genus of flowering plants whose seeds, called coffee beans, are used to make coffee. It is a member of the Rubiaceae family. They are shrubs or small trees native to tropical and southern Africa and tropical Asia. Coffee ranks as one of the world's most valuable and widely traded commodity crops and is an important export product of several countries..
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1060**
Feature Name: Oil Palm (*Elaeis guinensis*)
Description: An area planted primarily with oil palm. It is the principal source of palm oil and main crop in Malaysia at present. Oil is extracted from both the pulp of the fruit (palm oil, edible oil) and the kernel (palm kernel oil, used in foods and for soap manufacture)
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1070**
Feature Name: Tea (*Camellia sinensis*)
Description: An area planted primarily with tea. Tea is an evergreen plant of the Camellia genus.The tea plant has thick leaves, dark green in color, and a strong thick stem. The tea leaves are processed that gives us the different teas and their specific taste, color and scent.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1080**
Feature Name: Mangosteen (Garcinia mangostana)
Description: An area planted primarily with mangosteen tree which is typical seasonal fruit trees common in rural areas.The fruit of the mangosteen is sweet and tangy, juicy, and somewhat fibrous, with an inedible, deep reddish-purple colored rind (exocarp) when ripe
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1090**
Feature Name: Starfruit (*Averrhoa carambola*)
Description: An area planted primarily with starfruit tree which is a typical fruit trees for commercial farming. The fruit has distinctive ridges running down its sides (usually five, but can sometimes vary); in cross-section, it resembles a star, hence its name. The entire fruit is edible and is usually eaten out of hand.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1100**
Feature Name: Longan (*Dimocarpus longan*)
Description: An area planted primarily with longan tree. The commercial longan is a highly esteemed arilloid fruit species in Asia and belongs to the family of Sapindaceae. The longan resembles the lychee (Litchi chinensis) in that the tree is grown for its fleshy, translucent, white aril which surrounds a red brown to black seed from which it separates easily. Fruit can be eaten fresh, frozen, canned or dried.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1110**
Feature Name: Durian (*Durio zibethinus*)
Description: An area planted primarily with durian. Regarded by many people in southeast Asia as the "king of fruits". The fruit pulp is eaten fresh, cooked as a vegetable or in soups, made into a sauce, or processed into various products. It can be frozen, dried, fermented, salted or dried and boild with sugar.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1120**
Feature Name: Rose Apple (*Syzygium aqueum*)
Description: An area planted primarily with Rose Apple (water apple) tree. The rose apple is the least of the small group of somewhat similar fruits of the genus Syzygium (family Myrtaceae). This species, also known as watery rose apple. Grown mainly for the fruit, which is eaten fresh, used in salads or sometimes pickled or stewed..
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1130**
Feature Name: Pitaya (*Hylocereus sp*)
Description: An area planted primarily with pitaya tree. A pitaya or pitahaya is the fruit of several cactus species. "Pitaya" usually refers to fruit of the genus Stenocereus, while "Pitahaya" or "Dragonfruit" always refers to fruit of the genus Hylocereus. The fruit are more sour and refreshing, with juicier flesh and a stronger taste. This is the most commonly seen "dragon fruit".
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1140**
Feature Name: Guava (*Psidium guajava*)
Description: An area planted primarily with guava tree which produce fruit that can be eaten fresh or used for preserves, jam, jelly or juice. Leaves can be used for dyeing and tanning and in traditional medicine (against diarrhea)
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1150**
Feature Name: Soursop (*Annona muricata*)
Description: An area planted primarily with soursop tree. Which produce fruit, immature fruits can be eaten as vegetable, mature fruits fresh or made into juice, preserve, jam or jelly. Leaves and roots used for traditional medicinal purposes.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1160**
Feature Name: Jackfruit (*Artocarpus heterophyllus)*
Description: An area planted primarily with jackfruit tree. An Immature fruits can be eaten as vegetable, ripe fruit can be eaten fresh or made into various sweet dishes. Seeds can be eaten after boiling, roasting or drying. Young leaves can be used as livestock fodder while Tannin from bark and Dyes from wood particles.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1170**
Feature Name: Pomelo (*Citrus maxima*)
Description: An area planted primarily with pomelo trees which produce fruit. Mainly grown for the fruit, this can be eaten fresh or in salads or made into juice. Leaves, flowers, fruit and seeds are used for various medicinal purposes (including against coughs, fevers and stomach disorders)
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA1180**
Feature Name: Mandarin
Description: An area planted primarily with Mandarin trees. The fruit can be eaten fresh or process to fruit juice.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1190**
Feature Name:	Mango *(Mangifera indica L.)*
Description:	An area planted primarily with mango trees. The fruit can, depending on the cultivar, be eaten unripe green, ripe or processed into pickles, chutney, dried slices, juice or canned in syrup.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1200**
Feature Name:	Lime (Limau Nipis/Kasturi)
Description:	An area planted primarily with limau Nipis/Kasturi tree which produce fruit and popular for traditional medication. The fruits can also be used to add flavours of foods and beverages.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1210**
Feature Name:	Cempedak (*Artocarpus integer)*
Description:	An area planted primarily with cempedak trees. The fruit flesh surrounding the seeds are eaten fresh or cooked. The seeds can be eaten after roasting or boiling
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1220**
Feature Name:	Pulasan (*Nephelium mutabile* Blume*)*
Description:	An area planted primarily with pulasan trees. Pulasan is a tropical fruit closely allied to rambutan. While very similar to rambutan, the fruit lacks the hairy spines. The flesh is very sweet and juicy, and separates easily from the seed.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1230**
Feature Name:	Rambutan (*Nephelium lappaceum)*
Description:	An area planted primarily with rambutan trees. Sweet fruits are eaten fresh, can also be canned or made into jam
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1240**
Feature Name:	Salak (*Salacca zalacca*)
Description:	An area planted primarily with salak trees. Salak is a species of palm tree (family Arecaceae) native to Indonesia, Brunei and Malaysia. The fruit grows in clusters at the base of the palm, and are also known as snake fruit due to the reddish-brown scaly skin. They are about the size and shape of a ripe fig, with a distinct tip. The pulp is edible. The fruit inside consists of three lobes with the largest of the three containing a large inedible seed. The taste is usually sweet and acidic.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1250**
Feature Name:	Duku/Langsat/Dukung *(Lansium domesticum spp.)*
Description:	An area planted primarily with Duku/Langsat/Dokong trees which produce fruit that can be eaten fresh
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1260**
Feature Name:	Ciku *(Manilkara zapota)*
Description:	An area planted primarily with ciku trees which produce fruit that can be eaten fresh. The fruit has an exceptionally sweet, multi flavor. The unripe fruit is hard and contains high latex.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1270**
Feature Name:	Pepper *(Piper nigrum)*
Description:	An area planted primarily with pepper vines. Pepper is a flowering vine in the family Piperaceae, cultivated for its fruit, which is usually dried and used as spice and seasoning.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1280**
Feature Name:	Areca Palm *(Areca catechu)*
Description:	An area planted primarily with areca palms which produce areca nut. The palm is often called the betel tree because its fruit, the areca nut, is often chewed along with the betel leaf, a leaf from a vine of the Piperaceae family. The areca nut is also use for traditional medication.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1290**
Feature Name:	Rumbia *(Metroxylon sagu)*
Description:	An area planted primarily with sago palms.The palm is commonly found in tropical lowland forest and freshwater swamps which produce sago flour.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1300**
Feature Name:	Sugarcane (*Saccharum officinarum*)
Description:	Sugarcane type yellow (Tebu Kuning) is widely cultivated in Peninsular Malaysia. Mostly Tebu Kuning to be planted for juice production.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1301**
Feature Name:	Sugarcane (*Saccharum officinarum* L. hybrids)
Description:	Sugarcane for sugar production usually known in malaysia as *Tebu Gula*, a major industrial crop, is widely cultivated in tropical and subtropical regions. A few *Tebu Gula* type is like NCO31O from South Africa, F134 (Taiwan) and Ragnar (Australia) to be planted in plantations such as in Chuping northern Malaysia for sugar production. Sugar cane type NCO31O planted a lot because high yields although the tree easy to fall.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1310**
Feature Name:	Mixed Fruit Crops
Description:	An area planted with more than one type of fruit trees (orchard) normally durians, rambutans, mangosteen and duku.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Crop Mix (CRM), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA1320**
Feature Name:	Other fruit Crops
Description:	An area planted with other exotic tropical fruit trees.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA2000**
Feature Name:	Annual Crops
Description:	An area planted with the type of an annual crop. Crops that live for only one year and they must be planted every year from seed
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**VA2010**
Feature Name:	Vegetable
Description:	An area planted primarily with market vegetables
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA2020**
Feature Name:	Papaya (*Carica papaya)*
Description:	An area planted primarily with papaya. The ripe fruit is eaten fresh or used in salads, drinks, jam, candies. The green fruit can be cooked as a vegetable. Young leaves and flowers are also eaten in some areas. Carpaine, an alkaloid and papaine, an enzyme, are extracted for use in pharmaceutical, beverage and food industries.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA2030**
Feature Name:	Banana (*Musa* spp.)
Description:	An area planted primarily with banana trees which produce fruit that can be eaten fresh, processed as local cakes and chips . A banana plant belongs to the family Musaceae.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA2040**
Feature Name:	Watermelon (*Citrullus lanatus*)
Description:	An area planted primarily with watermelon plants. The sweet juicy pulp of the ripe fruit is red and yellow in colour and normally eaten fresh or as juice
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA2050**
Feature Name:	Pineapple (*Ananas comosus*)
Description:	An area planted primarily with pineapple. The fruit contain about 14% sugar, vitamins A, B, and C, and bromelin. It can be eaten fresh or canned as dessert, cooked in dishes, and used for juice
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VA2060**
Feature Name:	Paddy (*Oryza sativa*)
Description:	An area planted primarily with paddy under flooded or dry land condition.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Vegetation Water Management (VWM), Vegetation Paddy Type (VPT), Label (LBL),

Feature Code: **VA2070**
Feature Name: Tobacco (*Nicotiana tabacum*)
Description: An area planted primarily with tobaccos. The leaves are cured and dried and used for tobacco cigarettes and cigars, snuff, and as a source of nicotine for insecticides
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA2080**
Feature Name: Tuber Crop
Description: An area planted primarily with tuber crops. Tubers are various types of modified plant structures that are enlarged to store nutrients such as sweet potatoes, tapioca and potatoes..
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA2090**
Feature Name: Corn/Maize
Description: An area planted primarily with Corn/Maize. Sugar-rich varieties called sweet corn are usually grown for human consumption, while field corn varieties are used for animal feed and as chemical feed stocks.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA2110**
Feature Name: Mixed Annual Crops
Description: An area planted with more than one type of annual crops which cannot be separated into individual area.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code: **VA2120**
Feature Name: Other Annual Crops
Description: An area planted with other annual crops.
Feature Class: Polygon
Possible Attribute: Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

VB – Forest

Feature Code:	**VB0000**
Feature Name:	Forest
Description:	An area of land exceeding 0.5 hectares covered by trees with canopy cover of more than 10% of the area, normally having an average tree height of more than 5 meters at maturity except at higher altitudes.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH),

Feature Code:	**VB1000**
Feature Name:	Dryland Forest
Description:	Forest types consisting of mixed natural vegetation composition found inland from an elevation of 0 meter above sea level.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Dryland Forest Type (FTD)

Feature Code:	**VB1010**
Feature Name:	Sub Alpine Forest
Description:	Forests occurring over 3500 meters above sea level. Occuring only on Mount Kinabalu in Sabah.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB1020**
Feature Name:	Upper Montane Forest
Description:	A forest type normally dominated by tree shrubs of the Ericaceae family and generally occurring from 1,500 meters above sea level. Also known as Montane Ericaceous Forest. Note: In Sabah, this forest type occurs at elevation between 2,500 to 3,500 meters above sea level.The elevation above sea level where this forest changes to montane forest differs from one mountain to another. The recognizable altitudinal zonation in Peninsular Malaysia is obscured in Sabah and Sarawak..
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB1030**
Feature Name:	Lower Montane Forest
Description:	A forest type normally dominated by tree shrubs of the Fagaceae, Myrtaceae and Lauraceae families and generally occurring 1,200 to 1,500 meters above sea level. Also known as Montane Oak Forest. Note: In Sabah, this forest type occurs at elevation between 1,000 to 2,500 meters above sea level. The elevation above sea level where this forest changes to montane forest differs from one mountain to another. The recognizable altitudinal zonation in Peninsula Malaysia is obscured in Sabah and Sarawak.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB1040**
Feature Name:	Upper Hill Dipterocarp Forest
Description:	A forest type normally dominated by the indigenous Dipterocarpaceae family of predominant species such as Shorea platyclados (Meranti Bukit) occurring generally between about 800 – 1,300 meters above sea level.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB1050**
Feature Name:	Hill Dipterocarp Forest
Description:	A forest type normally dominated by the indigenous Dipterocarpaceae family of predominant species such as Shorea curtisii (Meranti Seraya) occurring generally between about 300 – 800 meter above sea level. Note: In Sabah, it is classified as Upland Dipterocarp Forest occurring at 500 to 1000 meter above sea level.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB1060**
Feature Name:	Lowland Dipterocarp Forest
Description:	A forest type normally dominated by the indigenous Dipterocarpaceae family predominant genus/genera such as Dipterocarpus(Keruing) and Shorea (Meranti) occurring generally between about 0 – 300 meter above sea level.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Status (FST), Forest Species Name (FSN),

Feature Code:	**VB1070**
Feature Name:	Heath Forest (Kerangas)
Description:	A forest type that develops mainly over coarse siliceous deposits which give rise to podzolic soils. It is dominated by dense, small and low canopy pole trees.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB1080**
Feature Name:	Limestone Forest
Description:	A forest type, mostly small tree species and scrubs, found on limestone rock, hills and surroundings.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB1090**
Feature Name:	Quartz Forest
Description:	A forest type, mostly scrubs found on quartz ridges and surroundings.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB1100**
Feature Name:	Beach Forest
Description:	A forest type found on coastal sandy plain areas.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB1110**
Feature Name:	Coastal Hill Forest
Description:	A forest type found on hills and cliffs of seacoast of islands.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB1120**
Feature Name:	Ultramafic Forest
Description:	A rare forest type found in areas with dark-coloured soil that contains a high level of heavy metal compounds (for example, nickel, chromium, iron and magnesium).The structure of an ultramafic forest depends on its elevation (i.e. height above sea level).In Sabah, protected ultramafic forests can be found on Mt. Kinabalu, Mt. Tawai near Telupid, and Mt. Silam and Mt. Danum near Lahad Datu (on the East Coast).
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB2000**
Feature Name:	Wetland Forest
Description:	A forest type characterized by the presence of natural vegetation where soil is at least periodically saturated or covered by water.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN),

Feature Code:	**VB2010**
Feature Name:	Mangrove Forest
Description:	A forest type that is salt tolerant and found on coastal or estuarine areas with muddy low-oxygen soil.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB2020**
Feature Name:	Peat Swamp Forest
Description:	A forest type occurring in waterlogged, nutrient poor, anaerobic and acidic peat soils.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB2030**
Feature Name:	Freshwater Swamp Forest
Description:	A forest type occurring along lower reaches of rivers and around freshwater lakes.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Status (FST), Forest Species Name (FSN),

Feature Code:	**VB2040**
Feature Name:	Riparian Forest
Description:	A forest type found on riverbanks and low-lying areas beyond the banks that are liable to flooding.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Forest Status (FST)

Feature Code:	**VB2050**
Feature Name:	Nipah
Description:	An area dominated by Nipah (Nypa fruticans), normally found along riverbanks, especially in estuarine habitats.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH),

Feature Code:	**VB3000**
Feature Name:	Planted Forest
Description:	An area planted with exotic or/and indigenous forest tree species and managed as forest plantation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Planted Forest Type ~~(PFT)~~ (FPF)

Feature Code:	**VB3010**
Feature Name:	Acacia
Description:	An area planted with acacia trees and managed as forest plantation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Year Planted (VYP), Forest Year Treated (FYT), Forest Year Harvested (FYH)

Feature Code:	**VB3020**
Feature Name:	Hevea
Description:	An area planted with rubber trees (Hevea brasiliensis) of the timber latex clone and managed as forest plantation..
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Year Planted (VYP), Forest Year Treated (FYT), Forest Year Harvested (FYH)

Feature Code:	**VB3030**
Feature Name:	Teak
Description:	An area planted with teak trees (Tectona grandis) and managed as forest plantation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Year Planted (FYP), Forest Year Treated (FYT), Forest Year Harvested (FYH)

Feature Code:	**VB3040**
Feature Name:	Sentang
Description:	An area planted with Sentang trees (Azaridachta excelsa) and managed as forest plantation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Year Planted (FYP), Forest Year Treated (FYT), Forest Year Harvested (FYH)

Feature Code:	**VB3050**
Feature Name:	Pine
Description:	An area planted with pine trees (Pinus spp.) and managed as forest plantation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Year Planted (FYP), Forest Year Treated (FYT), Forest Year Harvested (FYH)

Feature Code:	**VB3060**
Feature Name:	Eucalyptus
Description:	An area planted with Eucalyptus (Eucalyptus spp.) and managed as forest plantation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Year Planted (FYP), Forest Year Treated (FYT), Forest Year Harvested (FYH)

Feature Code:	**VB3070**
Feature Name:	Kelampayan
Description:	An area planted with Kelampayan (*Anthocephalus cadamba*) and managed as forest plantation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Year Planted (FYP), Forest Year Treated (FYT), Forest Year Harvested (FYH)

Feature Code:	**VB3080**
Feature Name:	Karas
Description:	An area planted with Karas (Aquilaria spp) and managed as forest plantation for its agarwood (gaharu).
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Year Planted (FYP), Forest Year Treated (FYT), Forest Year Harvested (FYH)
.	

Feature Code:	**VB3090**
Feature Name:	Mixed
Description:	An area planted with mixed tree species and managed as forest plantation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Year Planted (FYP), Forest Year Treated (FYT), Forest Year Harvested (FYH)

Feature Code:	**VB3100**
Feature Name:	Others
Description:	An An area planted with other tree species and managed as forest plantation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Forest Species Name (FSN), Year Planted (FYP), Forest Year Treated (FYT), Forest Year Harvested (FYH)

VC – Miscellaneous

Feature Code:	**VC0000**
Feature Name:	Miscellaneous Vegetation
Description:	Various plant unlisted in agriculture category or forestry
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**VC1010**
Feature Name:	Bamboo
Description:	An area dominated by bamboo. Bamboo is a tribe of flowering perennial evergreen plants in the grass family Poaceae, subfamily Bambusoideae, tribe Bambuseae. There are parts of the bamboo plant can be taken for food. Bamboo shoot often taken and in ensiled / orange and made of materials so delicious cuisine. Bamboos are of notable economic and cultural significance in South Asia, Southeast Asia and East Asia, being used for building materials, as a food source, and as a versatile raw product.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**VC1020**
Feature Name:	Screw Pine (Mengkuang)
Description:	An area grown with plants of the screw pine. Screw pine is a stilt - rooted woody plant with long 'cane-like' leaves which grows in some coastal areas. The leaves are harvested, boiled green then dried in sun prior to processing. The major products are small square souvenir baskets with cover which are sold to tourist and locals; hats, bags, floor etc
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**VC1030**
Feature Name:	Herbs
Description:	An area planted primarily with herbs. Generally, herbs are any plant used for flavoring, food, medicine, or perfume. Herbs have a variety of uses including culinary, medicinal, and in some cases spiritual usage.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VC1040**
Feature Name:	Ornamental Plant
Description:	An area planted primarily for flowers, foliage & landscape plant
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VC1050**
Feature Name:	Jatropha *(Jatropha curcas)*
Description:	An area planted by Jatropha trees (Jarak). The seeds are used for biofuel.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VC1060**
Name:	Kenaf (*Hibiscus cannabinus)*
Description:	An area planted primarily with kenaf plants which is cultivated for its fibre
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VC1070**
Feature Name:	Fibre Crops
Description:	An area planted primarily with fibre crops. Fibre crops are field crops grown for their fibre, which are traditionally used to make paper, cloth, or rope. Fibre crops are generally harvestable after a single growing season.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH), Vegetation Year Planted (VYP), Scientific Name (SCN), Vegetation Variety (VVY), Vegetation Status (VGS), Yield Production (VEP), Label (LBL),

Feature Code:	**VC1080**
Feature Name:	Agroforestry
Description:	An area planted with forest trees, agricultural crops and/or with livestock.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH),

Feature Code:	**VC1090**
Feature Name:	Scrub/shrub
Description:	An area covered by mixed shrub/scrub vegetation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**VC1100**
Feature Name:	Riung
Description:	An area covered by Riung (*Saccharum arundinaceum*)..
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**VC1110**
Feature Name:	Grass
Description:	An area dominated by grass either natural (lalang, wild grass) or planted (turf grass)
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**VC1120**
Feature Name:	Barren Land
Description:	An area occurring naturally without vegetation or other cover.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

Feature Code:	**VC1130**
Feature Name:	Cleared Land
Description:	An area cleared of vegetation.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (h) (ARH)

X - SPECIAL USE (Dataset-specific)

XA - Terrain Analysis Dataset (Pinda ke RA – Hypsography)

Feature Code:	**XA0010**
Feature Name:	Disturbed Soil
Description:	An area that has been so disturbed by human activity that no single soil type can be accurately identified. These areas may include built-up areas, strip mines, landfills, railroad yards, etc.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

Feature Code:	**XA0020**
Feature Name:	Slope Polygon
Description:	An area enclosing a group of slope values falling within a set range.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM), Route Number (RTN), Length (LEN), Slope Designation (SLD),Type of Berm (TBE), Nos of Berm (NBE)

Feature Code:	**XA0030**
Feature Name:	Aspect Polygon
Description:	An area enclosing a group of aspect values falling within a set range.
Feature Class:	Polygon
Possible Attribute:	Name (NAM), Area Measured (m^2) (ARM)

XB - Meteorological Dataset

Feature Code:	**XB0010**
Feature Name:	~~Temperature Isoline~~ Isotherm
Description:	~~A line of the same temperature values~~. A contour that connect points of equal temperature
Feature Class:	Line
Possible Attribute:	~~Name (NAM),~~ ISO Meteorological Amount Measured (IAM)

Feature Code:	**XB0011**
Feature Name:	Max Isotherm
Description:	A contour that connect points of equal maximum temperature
Feature Class:	Line
Possible Attribute:	ISO Meteorological Amount Measured (IAM)

Feature Code:	**XB0012**
Feature Name:	Min Isotherm
Description:	A contour that connect points of equal minimum temperature
Feature Class:	Line
Possible Attribute:	ISO Meteorological Amount Measured (IAM)

Feature Code:	**XB0013**
Feature Name:	Mean Isotherm
Description:	A contour that connect points of equal mean temperature
Feature Class:	Line
Possible Attribute:	ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0020**
Feature Name: ~~Wind Speed Isoline~~ Isotach
Description: ~~A line of the same wind speed values.~~ A contout that connect points of equal wind speed values.
Feature Class: Line
Possible Attribute: ~~Name (NAM),~~ ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0021**
Feature Name: Gust Isotach
Description: A contour that connect points of equal wind gust values.
Feature Class: Line
Possible Attribute: ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0022**
Feature Name: Mean Isotach
Description: A contour that connect points of equal mean wind speed values.
Feature Class: Line
Possible Attribute: ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0030**
Feature Name: Relative Humidity Isoline
Description: ~~A line of the same humidity values.~~ A contour that connect points of equal mean relative humidity values
Feature Class: Line
Possible Attribute: ~~Name (NAM),~~ ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0031**
Feature Name: Mean Relative Humidity Isoline
Description: A contour that connect points of equal mean relative humidity values.
Feature Class: Line
Possible Attribute: ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0040**
Feature Name: Evaporation Isoline
Description: ~~A line of the same evaporation values.~~ A contour that connect points of equal evaporation values.
Feature Class: Line
Possible Attribute: ~~Name (NAM),~~ ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0041**
Feature Name: Mean Evaporation Isoline
Description: A contour that connect points of equal mean evaporation values..
Feature Class: Line
Possible Attribute: ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0050**
Feature Name: ~~Total Rainfall Isoline~~ Isohyet
Description: ~~A line of the same total rainfall values.~~ A contour that connect points of equal total rainfall values
Feature Class: Line
Possible Attribute: ~~Name (NAM),~~ ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0051**
Feature Name: Daily Isohyet
Description: A contour that connect points of equal daily total rainfall values..
Feature Class: Line
Possible Attribute: ISO Amount Measured (IAM),

Feature Code: **XB0052**
Feature Name: Monthly Isohyet
Description: A contour that connect points of equal monthly total rainfall values..
Feature Class: Line
Possible Attribute: ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0060**
Feature Name: Isobar
Description: A contour that connect points of equal pressure values..
Feature Class: Line
Possible Attribute: ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0061**
Feature Name: MSLP Isobar
Description: A contour that connect points of equal MSLP values..
Feature Class: Line
Possible Attribute: ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0070**
Feature Name: Total Global Solar Radiation
Description: A contour that connect points of equal total global solar radiation values..
Feature Class: Line
Possible Attribute: ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0071**
Feature Name: Total Global Solar Radiation per Hour
Description: A contour that connect points of equal total global solar radiation per Hour values.
Feature Class: Line
Possible Attribute: ISO Meteorological Amount Measured (IAM)

Feature Code: **XB0072**
Feature Name: Total Global Solar Radiation per Day
Description: A contour that connect points of equal total global solar radiation per Day values.
Feature Class: Line
Possible Attribute: ISO Meteorological Amount Measured (IAM)

XC - DATASET-MODELING

Feature Code: **XC0010**
Feature Name: Digital Surface Model
Description: represents the earth's surface and includes all objects on it.
Feature Class:
Possible Attribute: Name (NAM)

Feature Code: **XC0020**
Feature Name: Digital Terrain Model
Description: represents the bare ground surface without any objects like plants and buildings.
Feature Class:
Possible Attribute: Name (NAM)

Feature Code: **XC0030**
Feature Name: Mosaic
Description: a compilation of two or more individual photographs that provides a complete photograph of the area involved.
Feature Class:
Possible Attribute: Name (NAM)

Feature Code: **XC0040**
Feature Name: Orthophoto
Description: An aerial photograph geometrically corrected (orthorectified) such that the scale is uniform: the photo has the same lack of distortion as a map.
Feature Class:
Possible Attribute: Name (NAM)

Feature Code: **XC0050**
Feature Name: Orthorectified Satellite image
Description: a satellite image of the earth's surface that has been corrected to remove geometric distortions caused by terrain.
Feature Class:
Possible Attribute: Name (NAM)

Feature Code: **XC0060**
Feature Name: Orthorectified RADAR image
Description: A grayscale RADAR image of the earth's surface that has been corrected to remove geometric distortions caused by terrain.
Feature Class:
Possible Attribute: Name (NAM)

Feature Code: **XC0070**
Feature Name: Aerial Photograph
Description: An aerial photograph is a picture of the Earth's surface taken with a specialized camera mounted in an airplane.
Feature Class:
Possible Attribute: Name (NAM)

Feature Code: **XC0080**
Feature Name: Contours Generated
Description: Contours line generated by the interpolation of a Digital Terrain Model
Feature Class:
Possible Attribute: Name (NAM)

Z - GENERAL

ZA - Control Point

Feature Code:	**ZA0010**
Feature Name:	Global Positioning System (GPS) Station
Description:	Control points established by GPS survey.
Feature Class:	Point
Possible Attribute:	Name (NAM), Global Position System Active Station (GAS), Monument Station (MOS), Global Position Station System Class (GPC), Z Ellipsoidal (ZEL), Z Orthometric (ZOR), Z Global Positioning System (ZGP), Station Identification Number (IDN), Pillar Status (PIL)

Feature Code:	**ZA0020**
Feature Name:	Survey Point
Description:	Control points established by survey techniques other than GPS.
Feature Class:	Point
Possible Attribute:	Name (NAM), Survey Point Type (SUT), Z Orthometric (ZOR), Z Global Positioning System (ZGP), Station Identification Number (IDN), Pillar Status (PIL)

Feature Code:	**ZA0030**
Feature Name:	Laplace Station
Description:	Control points established by astronomical observations.
Feature Class:	Point
Possible Attribute:	Name (NAM), Station Identification Number (IDN), Pillar Status (PIL)

Feature Code:	**ZA0040**
Feature Name:	Trigonometry Station
Description:	Survey stations established through trigonometric observation in the triangulation network.
Feature Class:	Point
Possible Attribute:	Name (NAM), Trigonometry Station Type (TST), Z Orthometric (ZOR), Z Global Positioning System (ZGP), Station Identification Number (IDN), Pillar Status (PIL)

Feature Code:	**ZA0050**
Feature Name:	Height Point
Description:	Points with height values.
Feature Class:	Point
Possible Attribute:	Name (NAM), Height Point Type (HPT), Z Orthometric (ZOR), Z Global Positioning System (ZGP), Station Identification Number (IDN), Pillar Status (PIL)

Feature Code:	**ZA0060**
Feature Name:	Gravity Reference Point
Description:	Control points established using gravimeter and tied to IGNS.
Feature Class:	Point
Possible Attribute:	Name (NAM), Gravity Reference Point (GRP), Z Orthometric (ZOR), Z Global Positioning System (ZGP), Station Identification Number (IDN), Pillar Status (PIL)

Feature Code:	**ZA0070**
Feature Name:	Base Point
Description:	Control points established at the outer most limit of a country for the purpose of defining its maritime boundaries.
Feature Class:	Point
Possible Attribute:	Name (NAM), Station Identification Number (IDN), Pillar Status (PIL)

Feature Code:	**ZA0080**
Feature Name:	International Boundary Marker
Description:	Boundary markers established in a joint survey to demarcate the international boundary between the countries concerned.
Feature Class:	Point
Possible Attribute:	Name (NAM), Marker Type (MKT), Z Orthometric (ZOR), Pillar Status (PIL)

Feature Code:	**ZA0090**
Feature Name:	State Boundary Marker
Description:	Boundary markers established to demarcate the boundary between states.
Feature Class:	Point
Possible Attribute:	Name (NAM), Marker Type (MKT), Z Orthometric (ZOR), Pillar Status (PIL)

ZB – Label of Geographical Name

Feature Code	**ZB0010**
Feature Name	Label of Settlement
Description	A point to label a settlement such as city, town, pekan or village
Feature Class	Point
Possible Attribute	Name (NAM), Settlement Type (STE), Capital Status (STS)

Feature Code	**ZB0020**
Feature Name	Label of feature
Description	A point to label a geographical feature such as sea, straits, gulf, river mouth, beach, cape, hill, mountain, abandoned village, harbour/port, swamp, pit, farm and country name
Feature Class	Point
Possible Attribute	Name (NAM)

ZC – Environmental Control

Feature Code	**ZC0010**
Feature Name	EIA Study Area
Description	An area where environmental impact assessment study has been carried out including the natural, social, economic aspects etc
Feature Class	Point, polygon
Possible Attribute	Name (NAM), Date (DAT), Status (STA), Area Measured (m) (ARM), EIA Index (EIA),

Feature Code	**ZC0020**
Feature Name	Environmental Complaint
Description	A point to provide quality service through comprehensive environmental protection and to enhance our natural surroundings such as air, water and land
Feature Class	Point

Possible Attribute	Name (NAM), Date (DAT), Status (STA), Area Measured (m) (ARM), Environmental Quality Type (EQT)

Annex B
(normative)

Attribute Codes

AAE **Anomaly Area Element**

A set of characters which enables an element(s) to be uniquely identified

AAE	0	Actual Value		
Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

ADC **Agricultural Drainage Category**

Tabulates the size of drain

ADC	1	Main/Primary
ADC	2	Secondary
ADC	3	Collector/ Feeder

ADS **Agricultural Drainage Structures Purpose**

Purpose of structures

ADS	1	Drainage Control
ADS	2	Drainage Crossing
ADS	3	Drainage Control cum Crossing
ADS	4	Drainage Protection

ADT **Approval Date**

Approval date for Planning Permission

ADT	0	Actual Value		
Units	Format	Range	Increment	Maximum Character
Date	yyyy /mm/ dd			

AEL **Anomaly elevation**

Anomaly derived from airborne or ground survey

AEL	1	Ground survey
AEL	2	Airborne survey

AIA **Airspace Identification Attributes**

A set of characters which enables an individual airspace to be uniquely identified

AIA	0	Actual Value		
Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			12 Characters

ALN **Air Route Segment Length**

Length of an individual air route segment measured in nautical miles

ALN	0	Actual Value		
Units	Format	Range	Increment	Maximum Character
NM	Short Integer			

AMT **Armour Type**

Type of materials used as a breakwater

AMT	1	Concrete
AMT	2	Rock
AMT	3	Steel
AMT	4	Wood
AMT	5	Mixed

ANN **Anomaly Number**

Reference number for anomaly identified

AIA	0	Actual Value		
Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			

ANP **Animal Type**

Type of animal for livestock

ANP	0	Actual Value		
Units	Format	Range	Increment	Maximum Character
Text String	Text			20 Characters

ANT **Anomaly Type**

Type of an anomaly

ANT	1	Stream sediment
ANT	2	Stream concentrate
ANT	3	Water
ANT	4	Rock
ANT	5	Soil
ANT	6	Gravity
ANT	7	Magnetic
ANT	8	Electromagnetic
ANT	9	Radiometric

APE **Area in Periods**

Age of a feature measured in periods

APE	L (Period - Period)	Actual Value

Units	Format	Range	Increment	Maximum Character
Periods	ASCII Text			80 Characters

APT **Airfield Type**

Type of an airfield

APT	1	Major Airfield
APT	2	Minor Airfield
APT	3	Light/General Aviation Aircraft Operating Only
APT	4	Seaplane Base
APT	5	Glider Site
APT	6	Hang Glider Site
APT	7	Winch Launched Hang Glider Site
APT	8	Helicopter Site
APT	9	Emergency
APT	10	Short Take-off and Landing (STOL)

AQD **Aquifer Depth**

Identifies the depth of an aquifer

ALN	0	Actual Value

Units	Format	Range	Increment	Maximum Character
Meters	Floating			

AQM **Aquifer Material**

Identifies the host materials in an aquifer

AQM	1	Sand
AQM	2	Gravel
AQM	3	Pebble
AQM	4	Alluvial
AQM	5	Peat
AQM	6	Hardrock

AQP **AquacultureType**

Type of aquaculture

AQP	0	Actual Value		
Units	Format	Range	Increment	Maximum Character
Text String	Text			20 Characters

AQT **Aquifer Type**

Type of an aquifer

AQT	1	Confined
AQT	2	Semi confined
AQT	3	Unconfined
AQT	4	Semi unconfined

ARH **Area Measure (hectares)**

The area within the delineation of a feature, in hectares

ARH	0	Actual Value		
Units	Format	Range	Increment	Maximum Character
Hectares	Floating			

ARK **Area Measure (km²)**

The area within the delineation of a feature, in sq. kilometers

ARK	0	Actual Value		
Units	Format	Range	Increment	Maximum Character
Sq. Kilometers	Floating			

ARM Area Measure (m²)

The area within the delineation of a feature, in sq. meters

ARM	0	Actual Value			
Units	Format	Range	Increment	Maximum Character	
Sq. meters	Floating				

ART Arenaceous Rock Type

Type of an arenaceous rock

ART	1	Sandstone
ART	2	Quartzose Sandstone

ARU Airspace Route Usage

A specified route designed for channeling the flow of a traffic as necessary for the provision of air traffic services

ARU	1	Airway
ARU	2	Air Route
ARU	3	Royal Low Level Corridor
ARU	4	Advisory
ARU	5	Direct
ARU	6	Military
ARU	7	Oceanic
ARU	8	Helicopter Route
ARU	9	Area Navigation
ARU	10	Low Flying Route
ARU	11	Royal Helicopter Route

ASC Air Space Category

Category of an air space

ASC	1	Controlled
ASC	2	Uncontrolled
ASC	3	Advisory
ASC	4	Flight Information Region (FIR)
ASC	5	Control Zone (CTR)
ASC	6	Terminal Control Area (TMA)
ASC	7	Air Traffic Zone (ATZ)

AUL Airspace Use Limitations

Airspace where activities must be confined because of their nature and/or where limitations may be imposed upon aircraft operations

AUL	1	Danger Area
AUL	2	Prohibited Area
AUL	3	Restricted Area
AUL	4	Alert Area
AUL	5	Warning Area
AUL	6	Defense Area
AUL	7	Controlled Firing Area
AUL	8	Parachute Drop Zone
AUL	9	Hazard to Aircraft
AUL	10	Gas Venting Station
AUL	11	Air Exercise Area
AUL	12	Bird Sanctuary
AUL	14	Bird Hazard Area
AUL	15	Health Resorts/Medical Establishments
AUL	16	Low Flying Avoidances
AUL	17	Military Operating Area
AUL	18	Non-free Flying Area
AUL	19	Caution Area
AUL	20	Flying Training Area

AUT Authority

Identifies the managing authority of a feature such as road, quarry authorized area, quarry permit area, mineral exploration block, geological mapping area, etc.

AUT 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			

AVL Aviation Light

Availability of Aviation Light

AVL	1	Yes
AVL	2	No

BA1 Building Name

The name of a building

BA1 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

BA2 Building Number

The number of a building on a street of an address

BA2 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

BA3 Street Name

The name of a building

BA3 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

BA4 Post Code

Post code of an address

BA4 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			5 Characters

BA5 State Name

The name of a state of an address

BA5 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

BAT Bridge Abutment Type

Type of end supports of a bridge

BAT	1	Bank Seat
BAT	2	Retaining Wall
BAT	3	Pile Bents
BAT	4	R.E. Walls
BAT	5	Multi-Columns
BAT	6	Hammer Head

BBS Billboard Structure

Type of Billboard Structure

BBS	1	Unipole - Maximum area of 223mp, clearance height of pole 8m (minimum)
BBS	2	Twinpole
BBS	3	Minipole
BBS	4	Free Standing – Rectangular in shape (Max. width of 15m x Max. height of5m)
BBS	5	Parapet – Maximum height of 2m
BBS	6	Container Display
BBS	7	i-Board
BBS	8	Light Box

BBZ BillBoard Size

A measuring size of billboard

BBZ 0 Actual Value

Units	Format	Range	Increment	Maximum Character
	Alphanumeric			24 Characters

BCR Bridge Crossing

Identifies the feature the bridge crosses

BCR	1	Road
BCR	2	Railway
BCR	3	River

BDS Boundary Status

Status of Boundary

BDS	1	Finalised
BDS	2	Unfinalised

BDT Boundary Type

Type of a boundary

BDT	1	Land Boundary
BDT	2	Maritime Boundary

BET Beach Type

Classification of an unconsolidated material found at a beach

BET	1	Pebbles
BET	2	Sand
BET	3	Mud

BJT Bedding and Jointing Type

Type of a bedding or jointing

BJT	1	Inclined
BJT	2	Horizontal
BJT	3	Vertical

BKT Bridge Deck Type

Type of slab and beams or girders used to form the flooring system of a bridge

BKT	1	Reinforced Concrete Beam
BKT	2	Pre-cast Reinforced Concrete Beam
BKT	3	Pre-Stressed Concrete Beam
BKT	4	Pre-Stressed Inverted Tee Beam
BKT	5	Reinforced Concrete Slab
BKT	6	Voided Concrete Slab
BKT	7	Concrete Box Girder
BKT	8	Steel Beam and Concrete Slab
BKT	9	Steel Beam Encased and Slab
BKT	10	Steel Buckle Plate
BKT	11	Steel Trough
BKT	12	Timber Deck
BKT	13	Riverbed slab

BMA Bus Stop Material Type

Type of the material

BMA	1	Stainless Steel
BMA	2	Glasses
BMA	3	Concrete
BMA	4	Iron
BMA	5	Aluminium
BMA	999	Others

BMT Bridge Construction Material Type

Type of construction materials used in the construction of a bridge

BMT	1	Concrete
BRT	2	Steel
BMT	3	Masonry
BMT	4	Timber

BRS Bridge Swingability

Identifies whether or not a bridge can be swung in a horizontal or vertical plane for safe passage of tall vessels

BRS	1	Bridge can be swung
BRS	2	Bridge cannot be swung

BRU Bridge Usage

Use of bridge

BRU	1	For railway crossing
BRU	2	For road crossing
BRU	3	For railway and road crossing
BRU	4	Pedestrian bridge

BST Bridge Structural System Type

Type of structural system used the construction of a bridge

BST	1	Simply Supported
BST	2	Continuous
BST	3	Cantilever
BST	4	Frame
BST	5	Arches
BST	6	Trusses
BST	7	Suspension
BST	8	Cabled-Stayed
BST	9	Culverts

BUP Buoy Pattern Category

The color breakdown of pattern of a buoy

BUP	1	Checkered
BUP	2	Diagonal Bands
BUP	3	Single Color
BUP	4	Horizontal Bands
BUP	5	Vertical Stripes
BUP	6	Squared
BUP	7	Horizontal bands from top to bottom

BUT Buoy Type

Type of a buoy

BUT	1	Conical
BUT	2	Can
BUT	3	Spherical
BUT	4	Pillar
BUT	5	Spar

BWM Breakwater Material

Type of materials used as a breakwater

BWM	1	Concrete
BWM	2	Rock
BWM	3	Steel
BWM	4	Wood

BWT Breakwater Type

Type of a breakwater

BWT	1	Attached
BWT	2	Detached

CAF Canal Function

Function of a canal

CAF	1	Conveyance
CAF	2	Regulating
CAF	3	Protective
CAF	4	Water Measuring
CAF	5	Energy Dissipators
CAF	6	Transportation

CAT Canal Type

Type of a canal

CAT	1	Earth
CAT	2	Concrete

CBT Commercial Building Type

Type of buildings used for commercial related activities

CBT	1	Detached
CBT	2	Semi Detached
CBT	3	Terrace/Link
CBT	4	Multi Storey
CBT	5	Complex
CBT	6	Lock-up

CBU Commercial Building Usage

Type of usage of a commercial building

CBU	1	Apartel
CBU	2	Bank
CBU	3	Cineplex
CBU	4	Entertainment Center
CBU	5	Hotel
CBU	6	Market
CBU	7	Office
CBU	8	Restaurant
CBU	9	Retail
CBU	10	Shop House
CBU	11	Shop Office
CBU	12	Stall
CBU	13	Supermarket/Hypermarket
CBU	14	Shopping Arcade/Stall
CBU	15	Petrol Station
CBU	16	Parking

CCT Cable Car Type

Type of a cable car

CCT	1	Track
CCT	2	Suspended

CEC Soil Cation Exchange Capacity

The cation exchange capacity of a soil is a measure of the quantity of such cations that can be adsorbed or held by a soil. The clay and humus content of a soil determine its exchange capacity, since these are the only two soil components with a negative charge or Cation exchange capacity (CEC) is a measure of the number of adsorption sites in a soil and is an important indicator of the soil's ability to retain and supply cations for plant use.

CEC	1	Very low	(< 5 cmol(+) per kg soil)
CEC	2	Low	(5 -10 cmol(+) per kg soil)
CEC	3	Moderate	(10 – 20 cmol(+) per kg soil)
CEC	4	High	(> 20 cmol(+) per kg soil)

CES Coastal Erosion Status

Status of a coastal erosion

CES	1	Requires immediate protection works
CES	2	Requires protection works in 5 to 10 years time
CES	3	No protection works required

CLI Contour Line Index

Identifies whether or not a contour line is an index line

CLI	1	Yes
CLI	2	No

CLT Contour Line Type

Type of line for a contour line

CLT	1	Firmline
CLT	2	Formline

CLV Contour Line Value

Value of a contour line

CLV	0	Actual Value

Units	Format	Range	Increment	Maximum Character
Meters	Short Integer			

COL Collector

Name of a sampling collector

COL	0	Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

COR Rock

Category of Rock

COR	1	Stone
COR	2	Gravel
COR	3	Pebbles
COR	4	Coral
COR	5	Boulder

COP Category of Pile

Category of Pile

COP	0	Actual Value

Units	Format	Range	Increment	Maximum Character
	Alphanumeric			24 Characters

COT Coast Type

Type of the edge margin of land next to the sea

COT	1	Cliff
COT	2	Steep
COT	3	Flat
COT	4	Rocky

CPV Capacity Value

The capacity value of passenger car per unit (PCU) during design stage.

CPV	0	Actual Value

Units	Format	Range	Increment	Maximum Character
Pcu/hr	Real Number			24 Characters

CRA Restricted Area

Category of Restricted Area

CRA	1	Anchoring
CRA	2	Fishing
CRA	3	Dredging
CRA	4	No Entry Area

CRM Crop Mix

Identifies the mix of crops in an area

CRM 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

CST Construction Suitability Class Type

Type of construction suitability classes

CST	1	Class I
CST	2	Class II
CST	3	Class III
CST	4	Class IV

CTM Camera Type

Type of camera

CTM	1	Surveillance
C TM	2	Enforcement

CTS Closed Circuit Television Support

Type of Closed Circuit Television Support

CTS	1	Owned Pole
CTS	2	Sharing with street light pole
CTS	3	Sharing with gantry signboard/ VMS

CTU Closed Circuit Television Usage

Type of Closed Circuit Television Usage

CTU	1	Public security/general surveillance
CTU	2	Traffic Obsevation
CTU	3	Traffic Data Collection
CTU	4	Automatic Number Plate Recognition (ANPR)

CTV Closed Circuit Television Type

Type of Closed Circuit Television

CTV	1	Telephoto Camera
CTV	2	Dome Camera
CTV	3	Fixed Camera

CUS Custodian

The individual, government or organisation which is the custodian of the structures or facilities.

CUS	1	Federal Government Department
CUS	2	State Government Agency
CUS	3	Local Authority
CUS	4	Cooperative
CUS	5	Private

CUT Commercial and Services Landuse Type

Type of a commercial and services landuse zone

CUT	1	Wholesale
CUT	2	Retail
CUT	3	Services
CUT	4	Others

CWL Water Level

Category of Water Level

CWL	1	Partly submerged at high water
CWL	2	Always dry
CWL	3	Always Under Water
CWL	4	Awash

CWT Carriageway Type

Type of a carriageway

CWT	1	Single - without divider
CWT	2	Dual - with divider

DAE Date of an event/maintenance End

Identifies the end date of an event/maintenance

DAE 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Date	yyyy /mm/ dd			

DAS **Date of an event/maintenance Start**

Identifies the starting date of an event/maintenance

DAS 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Date	yyyy /mm/ dd			

DAT **Date**

Identifies the date of an event

DAT 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Date	yyyy /mm/ dd			

DBT **Display Board**

Type of Display Board

DBT 1 Message Display Board
DBT 2 Message Display Board and Pictogram Display Board

DEV **Developer**

The name of the developer

DEV 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			50 Characters

DIP **Dip**

Angle of slope measured from a horizontal plane

DIP 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Degree	Floating			

DIR **Direction**

Direction of traffic flow

DIR	1	North
DIR	2	South
DIR	3	West
DIR	4	East

DIS **Discharge**

The release or extraction of water from an aquifer

DIS I Actual Value

Units	Format	Range	Increment	Maximum Character
m3/hour	Integer			

DMS **Dam Structures**

The various types of structure constructed within the dam area

DMS	1	Spillway
DMS	2	Tunnel
DMS	3	Outlet
DMS	4	Saddle Dam

DMT **Dam Type**

Main materials used for the construction of a dam

DMT	1	Earth
DMT	2	Rockfill
DMT	3	Concrete

DMU **Dam Usage**

Function or usage of a dam

DMU	1	Irrigation
DMU	2	Water Supply
DMU	3	Electricity
DMU	4	Flood Mitigation
DMU	5	Multi Usage

DPT **Depth**

Vertical distance measured downward

DPT 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Meters	Floating			

DRC Drain Category

Category of a drain

DRC	1	Main
DRC	2	Secondary
DRC	3	Tertiary
DRC	4	Roadside

DRG Drainage Gate

Category of drainage gate

DRG 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			20 Characters

DRM Drill Method

The method of making inclined or vertical holes for logging and sample collection

DRM	1	Augering
DRM	2	Jetting
DRM	3	Drilling

DRS Drain Structures

Type of Structures

DRS	1	Outfall
DRS	2	Manhole
DRS	3	Traps/Screens
DRS	4	Culverts
DRS	5	Control Gate

DRU Drain Usage

Function of a drain

DRU	1	Flood Mitigation
DRU	2	Solid Waste Disposal
DRU	3	Effluent Quality Control

DRV Drain Conveyance

A conduit or channel for conveying surplus water away

DRV	1	Surface
DRV	2	Subsurface

DS1 Distance_1

Distance value display on kilometre post

DS1 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Alphanumeric	1 to 10			24 Characters

DS2 Distance_2

Distance value display on kilometre post

DS2 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Alphanumeric	1 to 10			24 Characters

DSC Slope Drain Category

Category of slope drain

DSC	1	Toe Drain
DSC	2	Berm Drain
DSC	3	Inceptor Drain
DSC	4	Bench Drain

EDB Educational Boarding Facilities

Identifies whether an educational set up has a full or semi boarding facility

EDB	1	Full Boarding
EDB	2	Semi Boarding

EDC Educational Category

Category of an educational institution

EDC	1	Government
EDC	2	Private

EDL Educational Level

The level of an educational institution

EDL	1	Pre School
EDL	2	Primary
EDL	3	Secondary
EDL	4	College
EDL	5	University College
EDL	6	University

EDS Educational Stream

The stream of an educational institution

EDS	1	Technical
EDS	2	Vocational
EDS	3	Religious
EDS	4	Science
EDS	5	Military College
EDS	6	Special/Spastic
EDS	7	National
EDS	8	Chinese
EDS	9	Tamil
EDS	10	International

EDT Educational Building Type

Type of an educational building

EDT	1	Detached
EDT	2	Semi Detached
EDT	3	Terrace/Link
EDT	4	Multi Storey
EDT	5	Complex

EHP Exploration Hole Purpose

Identifies the purpose of an exploration hole

EHP	1	Downhole logging
EHP	2	Sampling

EIA EIA Index

Number of EIA index

EIA 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String				24 Characters

EMP Embankment Purpose

Identifies the purpose of the embankment

EMP	1	Flood
EMP	2	Salt Water Intrusion
EMP	3	Road
EMP	4	Railway

EMT Earth Material Type

Type of clay and sand extracted

EMT	100	Clay
EMT	110	Ball clay
EMT	120	Marine clay
EMT	130	Montmorilonite
EMT	140	Kaolin
EMT	200	Shale
EMT	300	Sand
EMT	310	Construction sand
EMT	320	Silica sand
EMT	330	Feldsphatic sand

END Environment of Deposition

Type of environment of deposition

END	100	Continental
END	101	Alluvial
END	102	Aeolian (Desert)
END	103	Fluvial (River)
END	104	Lacustrine (Lake)
END	105	Glacial
END	200	Transitional
END	201	Deltaic
END	202	Estuarine (Tidal)
END	203	Lagoonal
END	204	Beach
END	300	Marine
END	301	Continental shelf
END	302	Continental slope and rise
END	303	Abyssal plain
END	304	Reef

EQT Environmental Quality Type

Type of environmental quality

EQT	1	Air
EQT	2	Water
EQT	3	Land
EQT	4	Industrial
EQT	999	Others

EST Erosion Type

Type of an erosion

EST	1	Sheet
EST	2	Rill
EST	3	Gully

ETC **Electronic Toll Collection**

Type of ETC

ETC	1	Touch N Go
ETC	2	Smart Tag
ETC	3	Mixed mode
ETC	999	Others

ETN **Emergency Telephone Network**

Type of emergency telephone network

ETN	1	Fibre Optic
ETN	2	Wireless (GSM)
ETN	3	CAT6 Cable

ETS **Emergency Telephone Structure**

Type of Emergency Telephone Structure

ETS	1	Solar Power System
ETS	2	Electric Power System

FAO **FAO-Unesco Legend**

FAO Unesco Legend

FAO	0	Actual Value

Units	Format	Range	Increment	Maximum Character
Text	ASCII			24 Characters

FEM **Fence Material**

FEM	1	Concrete
FEM	2	Steel
FEM	3	Rock
FEM	4	Wood
FEM	999	Others

FET **Fence Type**

Type of fence used to surround a piece of land

FET	1	Electrified
FET	2	Non Electrified

FLT **Folding Type**

Type of a folding

FLT	1	Anticline
FLT	2	Syncline
FLT	3	Overturned
FLT	4	Recumbent
FLT	5	Boxfold

FNO **Field Number**

Non unique reference number of a feature, usually assigned to an area or a project

FNO 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

FOH **Fossil Habitat**

Reflect the living environment of a fossil

FOH	1	Marine
FOH	2	Brackish water
FOH	3	Fresh water
FOH	4	Continental

FOP **Fold Plunging Angle**

Angle of plunge with respect to horizontal plane

FOP I Actual Value

Units	Format	Range	Increment	Maximum Character
Degree	Integer			

FOS **Fossils**

Assemblage of fossils found in a lithological unit

FOS 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			80 Characters

FOT **Fossil Type**

Type of a fossil

FOT	1	Fauna
FOT	2	Flora
FOT	3	Trace
FOT	4	Fossil mixed

FOX **Fold Axis Direction**

The direction of fold axis with respect to north in clockwise direction

FOS I Actual Value

Units	Format	Range	Increment	Maximum Character
Degree	~~Floating~~ Integer			

FRT **Forest Landuse Type**

Type of a forest landuse zone

FRT 1 Permanent Land Forest Reserve
FRT 2 State Land Forest Reserve
FRT 3 Protected Land Forest Area
FRT 4 Permanent *Bencah* Forest Reserve
FRT 5 State *Bencah* Forest Reserve
FRT 6 Protected *Bencah* Forest Area
FRT 7 Cleared Forest

FSN **Forest Species Name**

Name of the species

FSN 0 Actual Value

Units	Format	Range	Increment	Maximum Character
	Text			24 Characters

FST **Forest Status**

Human or natural intervention status of the forested area

FST 1 Virgin and undisturbed
FST 2 Primary, logged >=30 years
FST 3 Secondary, logged < 30 years
FST 4 Poor due to activities other than logging.

FTD **Dryland Forest Type**

Type of dryland forest

FTD 0 Actual Value

Units	Format	Range	Increment	Maximum Character
	Text			24 Characters

FTT **Fishing Trap Type**

A fence or enclosure set in water to catch fish

FTT	1	Kelong
FTT	2	Stackers

FTY **Faulting Type**

Type of a faulting

FTY	1	Normal
FTY	2	~~Wrench~~ Reverse
FTY	3	Strike slip
FTY	4	Thrust
FTY	5	Transcurrent with displacement

FYH **Forest Year Harvested**

Identifies the year of forest harvested

FYH 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Year	yyyy			

FYT **Forest Year Treated**

Identifies the year of forest treated

FYT 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Year	yyyy			

GAC **Geological Accuracy**

Degree of accuracy of a geological boundary or feature

GAC	1	Observed
GAC	2	Defined
GAC	3	Approximate
GAC	4	Inferred

GAS **Global Position System Active Station (MASS)**

Primary class Global Positioning System reference stations tied to the International GPS framework whose data can be downloaded through JUPEM's web site for GPS post-processing

GAS	1	Active
GAS	2	Not Active

GAM / GAX **Minimum / Maximum Geological Age in Period or Epoch**

Minimum / Maximum geological age of a feature measured in Period or Epoch

GAM / GAX	100	RECENT
CENOZOIC		
GAM / GAX	210	QUATERNARY
GAM / GAX	211	Holocene
GAM / GAX	212	Pleistocene
GAM / GAX	220	TERTIARY
GAM / GAX	221	Neogene
GAM / GAX	222	Pliocene
GAM / GAX	223	Miocene
GAM / GAX	224	Palaeogene
GAM / GAX	225	Oligocene
GAM / GAX	226	Eocene
GAM / GAX	227	Paleocene
MESOZOIC		
GAM / GAX	310	CRETACEOUS
GAM / GAX	311	Late Cretaceous
GAM / GAX	312	Early Cretaceous
GAM / GAX	320	JURASSIC
GAM / GAX	321	Late Jurassic
GAM / GAX	322	Middle Jurassic
GAM / GAX	323	Early Jurassic
GAM / GAX	330	TRIASSIC
GAM / GAX	331	Late Triassic
GAM / GAX	332	Middle Triassic
GAM / GAX	333	Early Triassic
PALAEOZOIC		
GAM / GAX	410	PERMIAN
GAM / GAX	411	Lopingian
GAM / GAX	412	Guadalupian
GAM / GAX	413	Cisuralian
GAM / GAX	420	CARBONIFEROUS
GAM / GAX	421	Pennsylvanian
GAM / GAX	422	Late Pennsylvanian
GAM / GAX	423	Middle Pennsylvanian
GAM / GAX	424	Early Pennsylvanian
GAM / GAX	425	Mississippian
GAM / GAX	426	Late Mississippian
GAM / GAX	427	Middle Mississippian
GAM / GAX	428	Early Mississippian
GAM / GAX	430	DEVONIAN
GAM / GAX	431	Late Devonian
GAM / GAX	432	Middle Devonian
GAM / GAX	433	Early Devonian
GAM / GAX	440	SILURIAN
GAM / GAX	441	Late Silurian
GAM / GAX	442	Pridoli
GAM / GAX	443	Ludlow
GAM / GAX	444	Early Silurian
GAM / GAX	445	Wenlock
GAM / GAX	446	Llandovery
GAM / GAX	450	ORDOVICIAN

GAM / GAX	451	Late Ordovician
GAM / GAX	452	Middle Ordovician
GAM / GAX	453	Early Ordovician
GAM / GAX	460	CAMBRIAN
GAM / GAX	461	Late Cambrian
GAM / GAX	462	Middle Cambrian
GAM / GAX	463	Early Cambrian

PROTEROZOIC AND ARCHEAN

GAM / GAX	510	PRECAMBRIAN

GDS Road Guide Sign

GDS	G.11	Bus Stop (Perhentian Bas)
GDS	G.13	Public Phone (Telefon Awam)
GDS	G.14	Parking Area (Tempat Letak Kenderaan)
GDS	G.15	Health Centre (Pusat Kesihatan)
GDS	G.16	Hospital
GDS	G.17	Petrol Station (Stesen Minyak)
GDS	G.18	Dead End (Jalan Mati)
GDS	G.19	U-Turn Sign (Dibenarkan Berpusing Balik)
GDS	T.1	Road Works (Jalan Sedang Diperbaiki)
GDS	T.8a	Detour Sign (Lencongan)
GDS	Gd.1	Distance To Reach Destination (Papan Tanda Tempat Tuju/Destinasi)
GDS	Gd.2	Distance To Reach Destination (Papan Tanda Tempat Tuju/Destinasi)
GDS	Gt.1	Intersection Direction Sign (Papan Tanda Tunjuk Arah)
GDS	Gt.2	Signboard Show Direction With Tourism Area Signboard (Papan Tanda Tunjuk Arah Dengan Papan Tanda Kawasan Perlancongan)
GDS	Gt.3	Signboard Show Direction With Signboard Show Direction To Highway (Papan Tanda Tunjuk Arah Dengan Papan Tanda Ke Lebuh Raya)
GDS	Gt.4	Signboard Show Circular Path (Papan Tanda Tunjuk Arah Bulatan)
GDS	Gt.5	Directions Signboard On Gantry (Papan Tanda Panduan Arah Di Atas Gantri)
GDS	Gt.6	Direction Signboard On Highways (Papan Tanda Panduan Arah Di Lebuhraya)
GDS	Gx.1	Distance Signboard (for 2 Routes) (Papan Tanda Jarak)
GDS	Gx.2	Distance Signboard (for 1 Route) (Papan Tanda Jarak)

GDT Gazette Date

Identifies the date of gazette area

GDT 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Date	yyyy /mm/ dd			

GEO Geologist(s)

Name of the person in charge of the work

GEO 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

GEP **Geochemical Survey Area Purpose**

Identifies the purpose of a geochemical survey area

GEP	1	Mineral
GEP	2	Environment

GET **Gas Pipeline Type**

Type of a gas pipeline

GET	1	Transmission
GET	2	Distribution

GFD **Geological Feature Description**

Detailed description of geological feature(s)

GFD	A	Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			200 Characters

GHS **Geohazard Status**

Identifies the status of a geohazard

GHS	1	Occurred
GHS	2	Potential

GHT **Geohazard Type**

Type of a geohazard

GHT	1	Landslide
GHT	2	Sinkhole
GHT	3	~~Settlement~~ Land Subsidence
GHT	4	Rockfall
GHT	5	Erosion

~~**GFN** **Geological Formation Name**~~ **GLN** **Geological Lithostratigraphic / Lithodemic Name**

~~Identifies the name of a geological formation~~
Stratigraphic name of a geological lithostratigraphic or lithodemic unit

GLN	L	Actual Value
	Geographic Name<space> Rank or lithology	Uppercase First Letter (Rank/Lithology) for Formal formation/unit such as Semantan Formation or Chuping Limestone Lowercase First Letter (rank/lithology) for informal formation/unit such as Kenny Hill formation or Tiang schist

Units	Format	Range	Increment	Maximum Character

Text String	ASCII Text	80 Characters

GLL ***Geological Lithostratigraphic / Lithodemic Label**

Unique label (Geo-text) of a stratigraphical unit used in geological map

GLL	S	Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			12 Characters

GLR **Geological Lithostratigraphic / Lithodemic Rank**

Identifies the rank or stratigraphic level of each defined unit

GLR	400	Complex	Unranked, but equals to Suite or Supersuite (Volcanic & Structure Complexes)
GLR	100	Supergroup	Lithostratigraphic Classes Rank (Sedimentary & Pyroclastic tuff)
GLR	200	Group	
GLR	300	Formation	
GLR	310	Member	
GLR	320	Bed	
GLR	330	Flow	
GLR	340	Informal formation	
GLR	350	Informal member	
GLR	105	Supersuite	Lithodemic Classes Rank (Intrusive, Extrusive-Lavaflows & Highly metamorphosed)
GLR	205	Suite	
GLR	305	Lithodeme	

GLS **Geological Lithostratigraphic / Lithodemic Type**

Identifies type of a stratigraphic unit

GLS	100	Unconsolidated Sediments
GLS	110	Clay
GLS	120	Mud
GLS	130	Silt
GLS	140	Loess

GLS	150	Sand
GLS	160	Gravel
GLS	170	Peat
GLS	180	Volcanic ash
GLS	190	Coral
GLS	195	Shell
GLS	200	Sedimentary Rocks
GLS	210	Argillaceous
GLS	220	Arenaceous
GLS	230	Rudaceous
GLS	240	Calcareous
GLS	250	Siliceous
GLS	260	Carbonaceous
GLS	270	Evaporites
GLS	280	Extrusive – pyroclastic
GLS	300	Metamorphic Rocks
GLS	310	Regional
GLS	320	Contact
GLS	330	Dynamic
GLS	340	Impact
GLS	400	Igneous Rocks
GLS	410	Intrusive
GLS	420	Extrusive igneous - Lavaflows
GLS	430	Metamorphic - Highly metamorphosed

GLT Groundwater Limit Type

Type of a groundwater limit

GLT	1	Salt-water interface
GLT	2	Hydraulic isopach

GMT Gas Marker Type

Type of Gas Pipe Marker

GMT	1	Type A
GMT	2	Type B
GMT	3	Flush Type

GNU Gazette References Number

References number for gazette area

GNU 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			

GPC Global Position Station System Class

Class of GPS point accuracy

GPC	1	Primary Global Position System Station
GPC	2	Secondary Global Position System Station
GPC	3	Tertiary Global Position System Station
GPC	4	Base Point Reference Station

GPM Geophysical Method

Method of geophysical investigation

GPM	1	Seismic
GPM	2	Surface gravity
GPM	3	Aeromagnetic
GPM	4	Surface magnetic
GPM	5	Electrical
GPM	6	Electromagnetic
GPM	7	Radiometric
GPM	8	Airborne electromagnetic
GPM	9	Airborne Radiometric
GPM	10	Airborne gravity
GPM	11	Downhole logging

GPT Grass Polutant Type

GPT	1	Grass Polutant Type 1
GPT	2	Grass Polutant Type 2
GPT	3	Grass Polutant Type 3

GRC Groundwater Potential Class

Identifies the class of a groundwater potential

GRC	1	A1
GRC	2	A2
GRC	3	B1
GRC	4	B2

GRL Grade Location

Identifies the location of a feature with respect to the ground

GRL	1	On ground
GRL	2	Underground
GRL	3	Elevated
GRL	4	Buried Underwater
GRL	5	Exposed Underwater

GRP Gravity Reference Point

Class of a gravity point accuracy

GRP	1	Absolute
GRP	2	First Order
GRP	3	Second Order
GRP	4	Third Order

GSC Geological Structure Category

Category of a geological structure

GSC	1	Foliation
GSC	2	Schistocity
GSC	3	Cleavage
GSC	4	Unconformity
GSC	5	Disconformity
GSC	6	Gneissosity

GSS Land Subsidence Site Type

Type of land subsidence

GSS	0	Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

GST Groundwater Station Type

Type of a groundwater station

GST	1	Piezometer
GST	2	Settlement gauge

GWP Groundwater Potential Class

Indentifies the class of a groundwater potential

GWP	1	Very high
GWP	2	High
GWP	3	Medium
GWP	4	Low

GWQ Groundwater Quality

Determine the quality of water extracted from a tube well

GWQ	1	Fresh, generally potable
GWQ	2	Slight saline, marginally potable
GWQ	3	Moderately saline, suitable for live stock
GWQ	4	Highly saline, generally unsuitable for live stock

HEI Height

Height of a feature, in meters

HEI 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Meters	Floating			

HMU Highmast Usage

Type of Highmast Usage

HMU	1	Park/Recreational
HMU	2	Bridge
HMU	3	Stadium
HMU	4	Street/Highway
HMU	5	Airport
HMU	6	Rest and Service Area (RSA)
HMU	7	Toll Plaza
HMU	8	Interchanges
HMU	999	Others

HNT Hydrogeological Natural Feature Type

Type of a hydrogeological natural feature

HNT	1	Spring
HNT	2	Artesian

HOR Host Rock

The type of rock in which groundwater accumulated

HOR 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			200 Characters

HPT Height Point Type

Type of point with height measurement

HPT	1	Spot Height (derived by photogrammetric method)
HPT	2	Bench Mark
HPT	3	Ground control point (derived by ground survey method)
HPT	4	Relative height point (derived by photogrammetric method)
HPT	5	Tide Gauge Station (STAPS)

HSC Historical Site Category

Category of a historical site

HSC	1	Archaeological
HSC	2	Fort
HSC	3	Castle
HSC	4	Grave
HSC	5	Well
HSC	6	Cave
HSC	7	Heritage

HST Hydrological Station Type

Type of a hydrological station

HST	1	Rainfall Station
HST	2	Water Level Station
HST	3	Telemetric Station
HST	4	Water Quality Station
HST	5	Stream flow Station
HST	6	Tidal Station
HST	7	Suspended Sediment Station
HST	8	Evaporation Station

HZT Hydrogeological Zone Type

Type of a hydrogeological zone

HZT	1	Well field
HZT	2	Aquifer zone
HZT	3	Protection zone
HZT	4	Vulnerability zone

IAM ISO Meteorological Amount Measured (IAM)

Meteorological amount measured to calculate the value of temperature, rainfall, humidity, wind speed, sunshine hour, solar radiation, evaporation and pressure.

IAM	0	Actual Value

Units	Format	Range	Increment	Maximum Character
	ASCII Text			12 Characters

ICC **Irrigation Canal Category**

Category of canals used for a water distribution

ICC	1	Main
ICC	2	Secondary
ICC	3	Tertiary
ICC	4	Quaternary

ICS **Irrigation Canal Structures Purpose**

Purpose of structures

ICS	1	Conveyance
ICS	2	Regulating
ICS	3	Water Measuring

IDC **Category of Industry**

Category of an industry

IDC	1	Light Industry
IDC	2	Medium Industry
IDC	3	Heavy Industry
IDC	4	Service Industry
IDC	5	Special Industry
IDC	6	Mining and Quarry

IDL **Industry Permit Status**

Identifies whether or not an industry is operating with a permit

IDL	1	With Permit
IDL	2	Without Permit

IDN **Identification Number**

Official number assigned to a feature for identification purpose

IDN	0	Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			12 Characters

IDP Industrial Planned Category

Identifies whether or not an industry is planned

IDP	1	Planned
IDP	2	Unplanned

IDS Industry Tax Status

Identifies the tax status of an industry

IDS	1	Tax Free
IDS	2	Non Tax Free

IDT Industrial Building Type

Type of building used for industrial activities

IDT	1	Detached
IDT	2	Semi Detached
IDT	3	Terrace/Link
IDT	4	Multi Storey
IDT	5	Complex

IDU Industrial Usage

Type of uses of an industrial building

IDU	1	Workshop
IDU	2	Warehouse or Godown
IDU	3	Factory
IDU	4	Explosive Magazine

IGC Irrigation Scheme Category

Category of irrigation scheme

IGC	1	Granary
IGC	2	Mini Granary
IGC	3	Small Scheme

IGT Irrigation Scheme Type

Type of irrigation scheme

IGT	1	Gravity
IGT	2	Pumping
IGT	3	Mixed

INC Institutional Category

Category of an institution

INC	1	Government
INC	2	Private

INT Institutional Building Type

Identifies the type of building used for institutional purposes

INT	1	Detached
INT	2	Semi Detached
INT	3	Terrace/Link
INT	4	Multi-Storey
INT	5	Complex

INU Institutional Usage

Type of institutional uses of a building

INU	1	Airport Terminal
INU	2	Detention Center
INU	3	Foreign Diplomatic Mission
INU	4	Fire Station
INU	5	Government Office
INU	6	Handicapped Home
INU	7	Hospital
INU	8	Hostel
INU	9	Library/Archive
INU	10	Memorial
INU	11	Multi Purpose Hall
INU	12	Army Camp
INU	13	Museum
INU	14	Old Folk Home
INU	15	Parliament House
INU	16	Phone Booth
INU	17	Police Station
INU	18	Police Training Center
INU	19	Police Beat (Pondok Polis)
INU	20	Port
INU	21	Post Office
INU	22	Prison
INU	23	Army Training Center
INU	24	Public Toilet

INU	25	Immigration Detention Center (Pusat Tahanan Imigresen)
INU	26	Railway Station
INU	27	Rehabilitation Center
INU	28	Research Station/Laboratory
INU	29	Science Center
INU	30	State Assembly Hall
INU	31	Taxi Stand
INU	32	Bus Stop
INU	33	Bus Station
INU	34	Town Hall
INU	35	Art Theatre (National Theatre)
INU	36	Welfare Home
INU	37	Youth Club
INU	38	Youth Hostel
INU	39	Community Hall (Balai Raya)
INU	40	Clinic
INU	41	Club House
INU	42	Court
INU	43	Orphanage
INU	44	Palace

IRC **Irrigation Drain Category**

Category of an irrigation drain

IRC	1	Main
IRC	2	Secondary
IRC	3	Field

IRG **Igneous Rock Group**

Identifies the group of igneous rocks based on genesis type

IRG	1	Intrusive type
IRG	2	Extrusive - Lavaflows type
IRG	3	Extrusive - Pyroclastic type

IRI **International Roughness Index**

Measurement of the degree of roughness of a pavement surface adopting REAM guidelines

IRI	1	0 m/km – 5 m/km (true planar surface)
IRI	2	6 m/km – 11 m/km (moderately rough paved roads)
IRI	3	12 m/km – 19 m/km (extremely rough paved roads with potholes & patches)
IRI	4	≥ 20 m/km (extremely rough unpaved roads)

IRP **Igneous Rock Composition Type**

Type of an igneous rock based on origin magmatic composition

IRP	1	Acid
IRP	2	Intermediate
IRP	3	Basic
IRP	4	Ultrabasic

IRS **Irrigation Drain Structures**

Type of Structures

IRS	1	Drainage Control
IRS	2	Drainage Crossing
IRS	3	Drainage Control cum Crossing
IRS	4	Drainage Protection

IRT **Igneous Rock Type**

Type of an igneous rock

~~IRT~~	~~1~~	~~Acid~~
~~IRT~~	~~2~~	~~Intermediate~~
~~IRT~~	~~3~~	~~Basic~~
~~IRT~~	~~4~~	~~Ultrabasic~~

ACID INTRUSIVE

IRT	401	Granite
IRT	402	Dolerite
IRT	403	Aplite
IRT	404	Pegmatite

INTERMEDIATE INTRUSIVE

IRT	501	Syenite
IRT	502	Granodiorite
IRT	503	Diorite
IRT	504	Monzonite
IRT	505	Monzodiorite
IRT	506	Tonalite
IRT	507	Adamelite

BASIC INTRUSIVE

IRT	601	Gabbro
IRT	602	Gabbronorite
IRT	603	Anorthosite
IRT	604	Lamprophyre

ULTRABASIC INTRUSIVE

IRT	701	Dunite
IRT	702	Lherzolite
IRT	703	Harzburgite
IRT	704	Pyroxenite
IRT	705	Peridotite
IRT	706	Hornblendite

ACID EXTRUSIVE - FLOW

IRT	101	Rhyolite
IRT	102	Rhyodacite
IRT	103	Ignimbrite

INTERMEDIATE EXTRUSIVE - FLOW

IRT	201	Andesite

IRT 202 Dacite
IRT 203 Trachyte
IRT 204 Latite

BASIC EXTRUSIVE - FLOW
IRT 301 Basalt
IRT 302 Splite

EXTRUSIVE - PYROCLASTIC
IRT 801 Tuff
IRT 802 Lapili-stone
IRT 803 Agglomerate
IRT 804 Volcanic bomb

GLASSY ACID TO BASIC EXTRUSIVE – FLOW & OTHERS
IRT 901 Pumice
IRT 902 Scoria
IRT 903 Obsidian
IRT 904 Vitrophyre
IRT 905 Volcanic breccias

ISC Intrusive Structure Composition

Composition of an intrusive structure

ISC L Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

IST Intrusive Structure Type

Type of an intrusive structure

IST 1 Reef
IST 2 Dyke
IST 3 Sill
IST 4 Vein
IST 5 Batholith
IST 6 Lacolith
IST 7 Lopolith
IST 8 Phacolith
IST 9 Stock
IST 10 Diapir

ITT Interchange Type

Type of a road interchange

ITT 1 Trumpet

ITT	2	Ramps in one quadrant
ITT	3	Diamond interchange
ITT	4	Partial clover leaf
ITT	5	Full clover leaf

IUT Irrigation Structure Type

Structures constructed in an irrigation area to regulate and remove excess water for paddy cultivation

IUT	1	Drainage Control
IUT	2	Drainage Crossing
IUT	3	Drainage Control cum Crossing
IUT	4	Drainage Protection

JYC Jetty Category

Category of a jetty

JYC	1	Passenger
JYC	2	Freight
JYC	3	Fishery

KCT Kampung Coverage Type

Category of a kampung Coverage Type

KCT	1	Traditional
KCT	2	Fishing
KCT	3	Tersusun
KCT	4	Atas Air
KCT	5	Aboriginal
KCT	6	Group Settlement
KCT	7	New Village
KCT	8	Squatters
KCT	9	Estate

KMT Kilometer Post/ Marker Type

Type of a kilometre post/marker

KMT	A	kilometer post/marker assigned by JKR at every 5 kilometres
KMT	B	kilometre post/marker assigned by JKR at every 1 kilometre
KMT	C	kilometre post/marker assigned by LLM at every 100 metres
KMT	D	kilometre post/marker assigned by LLM at every 1 kilometre

KMU Kilometer Post Usage

Usage of a kilometer post

KMU 1 Road
KMU 2 Railway

KSK Information Kiosk

Availability of information Kiosk

KSK 1 Yes
KSK 2 No

LAN Number of Lane

Number of travel lane on a road surface

LAN 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Lane	Short Integer			24 Characters

LAU Lay-by Usage

Usage of a lay-by

LAU 1 Taxi
LAU 2 Bus
LAU 3 Emergency

LBL Label

Label on the item

LBL 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

LBT Landing Base Type

Type of a landing base for helicopters

LBT 1 On Building
LBT 2 On Ground
LBT 3 Deck

LCC Light Characteristic Category

The sequence, grouping and distinctive character of light

LCC	1	Alternating
LCC	2	Flashing
LCC	3	Long-Flashing
LCC	4	Occulting
LCC	5	Ultra Quick
LCC	6	Quick
LCC	8	Very Quick
LCC	9	Group
LCC	10	Composite Group
LCC	11	Morse Code
LCC	12	Isophase
LCC	13	Lighted
LCC	14	Unlighted
LCC	15	Interrupted
LCC	16	Fixed
LCC	17	Intensified
LCC	18	Directional

LEN Length

Value of a contour line

LEN 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Meters	Floating			

LIF Lift Facilities

Identifies whether or not a building has lift

LIF	1	Has Lift
LIF	2	Has No Lift

LIP Lineament Dip Inclination

Inclination of lineament derived from aerial photographs or remotely sensed data.

LIP	1	Low angle (<30 degrees)
LIP	2	Moderate angle (30-60 degrees)
LIP	3	Steep angle (>60 degrees)

LPT Lamp Pole Type

LPT 1 Accent Light

LPT	2	Bollard Light
LPT	3	Underwater Light
LPT	4	Floor Uplight
LPT	5	Irideon Light
LPT	6	Spot Light
LPT	7	Flood Light
LPT	8	Uplight
LPT	9	Wall Light
LPT	999	Others

LPU Lamp Pole Usage

Type of lamp pole usage

LPU	1	Recreational Park
LPU	2	Sport Complex
LPU	3	Public Area
LPU	4	Residential Area
LPU	5	Commercial Area
LPU	999	Others

LST Landslide Type

Type of a landslide

LST	1	Circular
LST	2	Translational
LST	3	Compound
LST	4	Debris flow
LST	5	Mudflow

LTY Lineament Type

Type of lineament

LTY	1	Lineament positive
LTY	2	Lineament negative
LTY	3	Scarp

LUT Land Use Type

Type of land use activities for development plan, planning control and regulatory.

LUT	**TBA 000**	**Built Up (Tepu Bina)**
LUT	**TRM 000**	**Residential (Kediaman)**
LUT	TRM 100	Planned Housing (Perumahan Terancang)
LUT	TRM 101	Planned Housing – Strata Housing (Perumahan Terancang – Perumahan Strata)

LUT	TRM 102	Planned Housing – Non-Strata Housing (Perumahan Terancang – Perumahan Bukan Strata)
LUT	TRM 103	Planned Housing – Staff Housing (Perumahan Terancang - Perumahan Kakitangan)
LUT	TRM 104	Planned Housing – Organized village (Perumahan Terancang - Kampung Tersusun)
LUT	TRM 105	Planned Housing - Felda village (Perumahan Terancang – Kampung Felda)
LUT	TRM 106	Planned Housing – New village (Perumahan Terancang – Kampung Baru)
LUT	TRM 107	Planned Housing - Estate Housing (Perumahan Terancang - Perumahan Ladang / Estet)
LUT	**TRM 200**	**Unplanned Housing (Perumahan Tidak Terancang)**
LUT	TRM 201	Unplanned Housing – Tradisional village (Perumahan Tidak Terancang – Kampung Tradisi)
LUT	TRM 202	Unplanned Housing – Fisherman village (Perumahan Tidak Terancang - Kampung Nelayan)
LUT	TRM 203	Unplanned Housing – Water village Perumahan Tidak Terancang – Kampung Atas Air)
LUT	TRM 204	Unplanned Housing – Aboriginal village (Perumahan Tidak Terancang - Kampung Orang Asli)
LUT	TRM 205	Unplanned Housing - Squatter village (Perumahan Tidak Terancang - Kampung Setinggan)

LUT	**TIN 000**	**Industry Industri**
LUT	**TIN 100**	**Planned Industry (Industri Terancang)**
LUT	TIN 101	Planned Industry - Light (Industri Terancang - Ringan)
LUT	TIN 102	Planned Industry - Medium (Industri Terancang – Sederhana)
LUT	TIN 103	Planned Industry - Heavy (Industri Terancang - Berat)
LUT	TIN 104	Planned Industry - Specific (Industri Terancang – Khas)
LUT	TIN 105	Planned Industry – Sevice (Industri Terancang – Perkhidmatan)
LUT	TIN 106	Planned Industry - Cottage /Country (Industri Terancang - Kotej/Desa)
LUT	**TIN 200**	**Unplanned Industry (Industri Tidak Terancang)**
LUT	TIN 201	Unplanned Industry - Light (Industri Tidak Terancang – Ringan)
LUT	TIN 202	Unplanned Industry - Medium (Industri Tidak Terancang – Sederhana)
LUT	TIN 203	Unplanned Industry – Heavy (Industri Tidak Terancang - Berat)
LUT	TIN 204	Unplanned Industry - Specific (Industri Tidak Terancang – Khas)
LUT	TIN 205	Unplanned Industry - Sevice (Industri Tidak Terancang – Perkhidmatan)
LUT	TIN 206	Unplanned Industry - Cottage / Country (Industri Tidak Terancang - Kotej/Desa)
LUT	TIN 300	Mine / quarry (Lombong / Kuari)
LUT	TIN 301	Mine / quarry – Active mine (Lombong / Kuari - Perlombongan Aktif)
LUT	TIN 302	Mine / quarry – Active quarry (Lombong / Kuari - Kuari Aktif)
LUT	**TPD 000**	**Commecial and Services (Perniagaan dan Perkhidmatan)**
LUT	**TPD 100**	**Planned commercial (Perniagaan Terancang)**
LUT	TPD 101	Planned commercial - Shop (Perniagaan Terancang - Perkedaian)
LUT	TPD 102	Planned commercial - Business complex – (Perniagaan Terancang Kompleks Perniagaan)
LUT	TPD 103	Planned commercial - Entertainment Centre (Perniagaan Terancang –Pusat Hiburan)
LUT	TPD 104	Planned commercial - Accommodation building (Perniagaan Terancang – Bangunan Penginapan)
LUT	TPD 105	Planned commercial - Financial Centre

			(Perniagaan Terancang – Pusat Kewangan)
LUT	TPD	106	Planned commercial - Booth / Bazaar (Perniagaan Terancang –Gerai / Bazar)
LUT	TPD	107	Planned commercial - Market (Perniagaan Terancang – Pasar)
LUT	TPD	108	Planned commercial - Food court (Perniagaan Terancang - Pusat Makanan/Medan Selera)
LUT	TPD	109	Planned commercial - Petrol pam station (Perniagaan Terancang – Stesen Minyak)
LUT	TPD	110	Planned commercial - Private institutions (clinics, hospitals, schools etc) (Perniagaan Terancang - Institusi Swasta (Klinik, Hospital, Sekolah dll)
LUT	TPD	111	Planned commercial - others (Perniagaan Terancang - Lain-lain)
LUT	**TPD**	**200**	**Unplanned commercial (Perniagaan Tidak Terancang)**
LUT	TPD	201	Unplanned commercial - Shop (Perniagaan Tidak Terancang – Perkedaian)
LUT	TPD	202	Unplanned commercial - Business complex (Perniagaan Tidak Terancang – Kompleks Perniagaan)
LUT	TPD	203	Unplanned commercial - Entertainment Centre (Perniagaan Tidak Terancang - Pusat Hiburan)
LUT	TPD	204	Unplanned commercial - Accommodation building (Perniagaan Tidak Terancang - Bangunan Penginapan)
LUT	TPD	205	Unplanned commercial - Financial Centre (Perniagaan Tidak Terancang - Pusat Kewangan)
LUT	TPD	206	Unplanned commercial - Booth / Bazaar (Perniagaan Tidak Terancang - Gerai / Bazar)
LUT	TPD	207	Unplanned commercial - Market (Perniagaan Tidak Terancang - Pasar)
LUT	TPD	208	Unplanned commercial - Food court (Perniagaan Tidak Terancang - Pusat Makanan/Medan Selera)
LUT	TPD	209	Unplanned commercial - Petrol pam station (Perniagaan Tidak Terancang - Stesen Minyak)
LUT	TPD	210	Unplanned commercial - Private institutions (clinics, hospitals, schools etc) (Perniagaan Tidak Terancang - Institusi Swasta (Klinik, Hospital, Sekolah dll)
LUT	TPD	211	Unplanned commercial - others (Perniagaan Tidak Terancang - Lain-lain)
LUT	**TIS**	**000**	**Institution and Public Amenity (Institusi dan Kemudahan Masyarakat)**
LUT	**TIS**	**100**	**Education (Pendidikan)**
LUT	TIS	101	Education - Kindergarten (Pendidikan - Tadika)
LUT	TIS	102	Education – Primary school (Pendidikan - Sekolah Rendah)
LUT	TIS	103	Education – Secondary school (Pendidikan - Sekolah Menengah)
LUT	TIS	104	Education - Religious Schools (Pendidikan - Sekolah Agama)
LUT	TIS	105	Education – Intergrated school (Pendidikan - Sekolah Bersepadu)
LUT	TIS	106	Education - Special Education Schools (Pendidikan - Sekolah Pendidikan Khas)
LUT	TIS	107	Education - College / Institute / Polytechnic (Pendidikan - Kolej/Maktab/Politeknik)
LUT	TIS	108	Education – Higher Education Institute (Pendidikan - Institut Pendidikan Tinggi)
LUT	TIS	109	Education – Research Centre (Pendidikan - Pusat Penyelidikan)
LUT	TIS	110	Education – Training Institute (Pendidikan - Institut Latihan)
LUT	TIS	111	Education - Others (Pendidikan - Lain-lain)
LUT	**TIS**	**200**	**Health (Kesihatan)**
LUT	TIS	201	Health - Rural Clinic (Kesihatan - Klinik Desa)
LUT	TIS	202	Health - Health Clinic (Kesihatan - Klinik Kesihatan)
LUT	TIS	203	Health - Dental Clinic (Kesihatan - Klinik Pergigian)
LUT	TIS	204	Health - Hospital (Kesihatan - Hospital)

LUT	TIS 205	Health - others (Kesihatan - Lain-lain)
LUT	**TIS 300**	**Religious (Keagamaan)**
LUT	TIS 301	Religious - Prayers room (Keagamaan - Surau)
LUT	TIS 302	Religious - Mosque (Keagamaan - Masjid)
LUT	TIS 303	Religious - Temple (kuil) (Keagamaan - Kuil)
LUT	TIS 304	Religious - Temple (tokong) (Keagamaan - Tokong)
LUT	TIS 305	Religious - Church (Keagamaan - Gereja)
LUT	TIS 306	Religious - Others (Keagamaan - Lain-lain)
LUT	**TIS 400**	**Cemetery (Perkuburan)**
LUT	TIS 401	Cemetery - Moslem (Perkuburan - Islam)
LUT	TIS 402	Cemetery - Sepulcher Chinese / Buddhist (Perkuburan - Jirat Cina/Buddha)
LUT	TIS 403	Cemetery - Christian (Perkuburan - Kristian)
LUT	TIS 404	Cemetery - Hindu / Sikh (Perkuburan - Hindu / Sikh)
LUT	TIS 405	Cemetery - Crematorium (Perkuburan - Krematoria)
LUT	TIS 406	Cemetery - Others (Perkuburan - Lain-lain)
LUT	**TIS 500**	**Security (Keselamatan)**
LUT	TIS 501	Security - Police Beat (Keselamatan - Pondok Polis)
LUT	TIS 502	Security - Police Station (Keselamatan - Balai Polis)
LUT	TIS 503	Security - State Police Headquarters / District (Keselamatan - Ibu Pejabat Polis Negeri / Daerah)
LUT	TIS 504	Security - Fire and Rescue Station (Keselamatan - Balai Bomba dan Penyelamat)
LUT	TIS 505	Security - Prison (Keselamatan - Penjara)
LUT	TIS 506	Security - Immigration Detention Centre / Special (Keselamatan – Pusat Tahanan Imigresen / Khas)
LUT	TIS 507	Security - Drug Rehabilitation Centre (Keselamatan - Pusat Serenti Dadah)
LUT	TIS 508	Security - Training Centre for Military / Police / Fire fighter (Keselamatan - Pusat Latihan Tentera / Polis / Bomba)
LUT	TIS 509	Security - Military camp (Keselamatan - Kem Tentera)
LUT	TIS 510	Security - Others (Keselamatan - Lain-lain)
LUT	**TIS 600**	**Welfare Home (Rumah Kebajikan)**
LUT	TIS 601	Welfare Home - The Orphanage (Rumah Kebajikan - Rumah Anak Yatim)
LUT	TIS 602	Welfare Home - Elderly home (Rumah Kebajikan - Rumah Warga Emas)
LUT	TIS 603	Welfare Home - Disabilities Persons House / Special (Rumah Kebajikan - Rumah Orang Kurang Upaya / Istimewa)
LUT	TIS 604	Welfare Home - Association / Organization Houses (Rumah Kebajikan - Rumah Persatuan / Pertubuhan)
LUT	TIS 605	Welfare Home - Rehabilitation Centre (Rumah Kebajikan - Pusat Pemulihan Akhlak)
LUT	TIS 606	Welfare Home - Others (Rumah Kebajikan - Lain-lain)
LUT	**TIS 700**	**Use of government / statutory body (Kegunaan Kerajaan / Badan Berkanun)**
LUT	TIS 701	Use of government / statutory body - Palace (Kegunaan Kerajaan / Badan Berkanun - Istana)
LUT	TIS 702	Use of government / statutory body - Museum (Kegunaan Kerajaan / Badan Berkanun - Muzium)
LUT	TIS 703	Use of government /statutory body - Government Office/Government Agencies

		(Kegunaan Kerajaan / Badan Berkanun - Pejabat Kerajaan / Agensi Kerajaan)
LUT	TIS 704	Use of government / statutory body - Statutory Bodies (Kegunaan Kerajaan / Badan Berkanun - Badan Berkanun)
LUT	TIS 705	Use of government / statutory body - Others (Kegunaan Kerajaan / Badan Berkanun - Lain-lain)
LUT	**TIS 800**	**Other Community Facilities (Lain-Lain Kemudahan Masyarakat)**
LUT	TIS 801	Other Community Facilities - Public Multipurpose Hall (Lain-Lain Kemudahan Masyarakat - Dewan Serbaguna Awam)
LUT	TIS 802	Other Community Facilities - Public Hall (Lain-Lain Kemudahan Masyarakat - Dewan Orang Ramai)
LUT	TIS 803	Other Community Facilities - hall (Lain-Lain Kemudahan Masyarakat - Balai Raya)
LUT	TIS 804	Other Community Facilities - Public Library (Lain-Lain Kemudahan Masyarakat - Perpustakaan Awam)
LUT	TIS 805	Other Community Facilities – Post Office (Lain-Lain Kemudahan Masyarakat - Pejabat Pos)
LUT	TIS 806	Other Community Facilities – Others (Lain-Lain Kemudahan Masyarakat - Lain-lain)
LUT	**TLR 000**	**Open Space and Recreation (Tanah Lapang dan Rekreasi)**
LUT	**TLR 100**	**Open Space (Tanah Lapang)**
LUT	TLR 101	Open Space - Playground lot (Tanah Lapang - Lot Permainan)
LUT	TLR 102	Open Space - Playground (Tanah Lapang - Padang Permainan)
LUT	TLR 103	Open Space - Neighbourhood fields (Tanah Lapang - Padang Kejiranan)
LUT	TLR 104	Open Space - Local parks (Tanah Lapang - Taman Tempatan)
LUT	TLR 105	Open Space - Municipal parks (Tanah Lapang - Taman Bandaran)
LUT	TLR 106	Open Space - Provincial parks / State (Tanah Lapang - Taman Wilayah / Negeri)
LUT	TLR 107	Open Space - National parks (Tanah Lapang - Taman Nasional)
LUT	TLR 108	Open Space - Botanical parks (Tanah Lapang - Taman Botani)
LUT	TLR 109	Open Space - Special parks (Tanah Lapang - Taman Khas)
LUT	TLR 110	Open Space - Others (Tanah Lapang - Lain-lain)
LUT	**TLR 200**	**Sports and Recreation Facilities (Kemudahan Sukan dan Rekreasi)**
LUT	TLR 201	Sports and Recreation Facilities - Stadium (Kemudahan Sukan dan Rekreasi - Stadium)
LUT	TLR 202	Sports and Recreation Facilities - Sports complex (Kemudahan Sukan dan Rekreasi - Kompleks Sukan)
LUT	TLR 203	Sports and Recreation Facilities - Racing circuit (Kemudahan Sukan dan Rekreasi - Litar Lumba Kereta/Motosikal)
LUT	TLR 204	Sports and Recreation Facilities – Games Arena (Kemudahan Sukan dan Rekreasi - Gelanggang Permainan)
LUT	TLR 205	Sports and Recreation Facilities - Golf course (Kemudahan Sukan dan Rekreasi - Padang Golf)
LUT	TLR 206	Sports and Recreation Facilities - Polo fields/Aquastrian/Horse racing circuit (Kemudahan Sukan dan Rekreasi - Padang Polo/Aquastrian/Lumba kuda)
LUT	TLR 207	Sports and Recreation Facilities - Go-Cart circuit (Kemudahan Sukan dan Rekreasi - Gelanggang Go-Kart)
LUT	TLR 208	Sports and Recreation Facilities - Shooting range (Kemudahan Sukan dan Rekreasi - Lapang Sasar)
LUT	TLR 209	Sports and Recreation Facilities - Theme park (Kemudahan Sukan dan Rekreasi - Taman Tema)
LUT	TLR 210	Sports and Recreation Facilities - Zoo (Kemudahan Sukan dan Rekreasi - Zoo)

LUT	TLR 211	Sports and Recreation Facilities - Others (Kemudahan Sukan dan Rekreasi - Lain-lain)
LUT	**TLR 300**	**Green Area (Kawasan Hijau)**
LUT	TLR 301	Green Area - Development excess area (Kawasan Hijau - Kawasan Lebihan Pembangunan)
LUT	TLR 302	Green Area - Vacant land surround water bodies (Kawasan Hijau - Tanah Kosong Sekitar Badan Air)
LUT	TLR 303	Green Area - Buffer zone (Kawasan Hijau - Zon Penampan)
LUT	**TTK 000**	**Vacant Land (Tanah Kosong)**
LUT	**TTK 100**	**Natural Vacant Land (Tanah Kosong Semulajadi)**
LUT	TTK 101	Natural Vacant Land - shrub (Tanah Kosong Semulajadi - Belukar)
LUT	TTK 102	Natural Vacant Land - Turf / Weeds (Tanah Kosong Semulajadi - Tanah Berumput / Lalang)
LUT	**TTK 200**	**Made Vacant Land (Tanah Kosong Buatan)**
LUT	TTK 201	Made Vacant Land - Abandoned Project Site (Tanah Kosong Buatan - Tapak Projek Terbengkalai)
LUT	TTK 202	Made Vacant Land – Construction Project site (Tanah Kosong Buatan - Tapak Projek Dalam Pembinaan)
LUT	TTK 203	Made Vacant Land - infill site (Tanah Kosong Buatan - Tapak Infill)
LUT	TTK 204	Made Vacant Land - Former Mine Land (Tanah Kosong Buatan - Tanah Bekas Lombong)

LUT	**IUU 000**	**Transportation, Infrastructure and Utility (Pengangkutan, Infastruktur dan Utiliti)**
LUT	**IPG 000**	**Transportation (Pengangkutan)**
LUT	**IPG 100**	**Road (Jalan)**
LUT	IPG 101	Road – Highways (Jalan – Lebuhraya)
LUT	IPG 102	Road – Federal roads (Jalan – Jalan Persekutuan)
LUT	IPG 103	Road – State roads (Jalan – Jalan Negeri)
LUT	IPG 104	Road – Municipal roads (Jalan – Jalan Bandaran)
LUT	IPG 105	Road – Others (Jalan – Lain-lain)
LUT	**IPG 200**	**Platform (Landasan)**
LUT	IPG 201	Platform – Railways (Landasan – Landasan Keretapi)
LUT	IPG 202	Platform – Monorail track (Landasan – Landasan Monorail)
LUT	IPG 203	Platform – LRT/MRT track (Landasan – Landasan LRT/MRT)
LUT	IPG 204	Platform – Runway (Landasan – Landasan Terbang)
LUT	IPG 205	Platform – Others (Landasan – Lain-lain)
LUT	**IPG 300**	**Transportation Facilities (Kemudahan Pengangkutan)**
LUT	IPG 301	Transportation Facilities – Airport (Kemudahan Pengangkutan – Lapangan Terbang)
LUT	IPG 302	Transportation Facilities – Seaport (Kemudahan Pengangkutan – Pelabuhan Laut)
LUT	IPG 303	Transportation Facilities – Inland port (Kemudahan Pengangkutan – Pelabuhan Darat)
LUT	IPG 304	Transportation Facilities – Marina centre (Kemudahan Pengangkutan – Pusat Marina)
LUT	IPG 305	Transportation Facilities – Terminal / Bus station

(Kemudahan Pengangkutan – Terminal / Stesen Bas)

LUT IPG 306 Transportation Facilities – Terminal / Taxi station
(Kemudahan Pengangkutan – Terminal / Stesen Teksi)

LUT IPG 307 Transportation Facilities – Terminal / Train station / LRT/MRT
(Kemudahan Pengangkutan – Terminal /Stesen Keretapi/LRT/MRT)

LUT IPG 308 Transportation Facilities – Bus Depot
(Kemudahan Pengangkutan – Depot Bas

LUT IPG 309 Transportation Facilities – Train depot / LRT
(Kemudahan Pengangkutan – Depot Keretapi / LRT)

LUT IPG 310 Transportation Facilities – Truck depot / Heavy equipment
(Kemudahan Pengangkutan – Depot Lori / Jentera Berat)

LUT IPG 311 Transportation Facilities – Terminal / Ferry Jetty
(Kemudahan Pengangkutan – Terminal / Jeti Feri)

LUT IPG 312 Transportation Facilities – Terminal / Boat Jetty
(Kemudahan Pengangkutan – Terminal / Jeti Bot)

LUT IPG 313 Transportation Facilities – Intergrated transport terminal
(Kemudahan Pengangkutan – Terminal Pengangkutan Bersepadu)

LUT IPG 314 Transportation Facilities – Jetty - fisherman
(Kemudahan Pengangkutan – Jeti Nelayan)

LUT IPG 315 Transportation Facilities – Ship repair centre
(Kemudahan Pengangkutan – Pusat Membaiki Kapal)

LUT IPG 316 Transportation Facilities – Parking
(Kemudahan Pengangkutan – Tempat Letak Kereta)

LUT IPG 317 Transportation Facilities – Stesen Pemindahan Kargo
(Kemudahan Pengangkutan – Stesen Pemindahan Kargo)

LUT IPG 318 Transportation Facilities - Cargo transfer station
(Kemudahan Pengangkutan – Lain-lain)

LUT IFU 000 Infrastructure and Utility (Infrastruktur dan Utiliti)

LUT IFU 100 Electricity Supply (Bekalan Elektrik)

LUT IFU 101 Electricity Supply – Transmission line 500 kv
(Bekalan Elektrik – Talian Rentis 500 kv)

LUT IFU 102 Electricity Supply – Transmission line 275 kv
(Bekalan Elektrik – Talian Rentis 275 kv)

LUT IFU 103 Electricity Supply – Transmission line 132 kv
(Bekalan Elektrik – Talian Rentis 132 kv)

LUT IFU 104 Electricity Supply – Transmission line 66 kv
(Bekalan Elektrik – Talian Rentis 66 kv)

LUT IFU 105 Electricity Supply – Electric power plant
(Bekalan Elektrik – Loji Janakuasa Elektrik)

LUT IFU 106 Electricity Supply – Hydro power plant
(Bekalan Elektrik – Loji Janakuasa Hidro)

LUT IFU 107 Electricity Supply – Substation main divider (PPU)
(Bekalan Elektrik – Pencawang Masuk Utama (PMU))

LUT IFU 108 Electricity Supply – Substation main divider (PPU)
(Bekalan Elektrik – Pencawang Pembahagi Utama (PPU))

LUT IFU 109 Electricity Supply – Electrical substation (PE)
(Bekalan Elektrik – Pencawang Elektrik (PE))

LUT IFU 200 Gas suplly (Bekalan Gas)

LUT IFU 201 Gas suplly – Gas pipeline Gas PGU I
(Bekalan Gas – Laluan Paip Gas PGU I)

LUT IFU 202 Gas Supply – Gas pipeline Gas PGU II
(Bekalan Gas – Laluan Paip Gas PGU II)

LUT IFU 203 Gas Supply –Gas pipeline PGU III
(Bekalan Gas – Laluan Paip Gas PGU III)

LUT IFU 204 Gas Supply –City Gates Bekalan Gas – City Gates
LUT IFU 205 Gas Supply – Gas distributor station .
(Bekalan Gas – Stesen Pengagih Gas)
LUT IFU 206 Gas Supply – Others (Bekalan Gas – Lain-lain)

LUT IFU 300 Water Supply (Bekalan Air)
LUT IFU 301 Water Supply – Dam (Bekalan Air – Empangan)
LUT IFU 302 Water Supply – Inter-state / Countries water flow pipe
(Bekalan Air – Paip Pengaliran Air Antara Negara / Negeri)
LUT IFU 303 Water Supply – District water flow pipe
(Bekalan Air – Paip Pengaliran Air Antara Daerah)
LUT IFU 304 Water Supply – Water treatment plant
(Bekalan Air – Loji Rawatan Air)
LUT IFU 305 Water Supply – Water plant (Bekalan Air – Loji Air)
LUT IFU 306 Water Supply – Water intake (Bekalan Air – Takat Pengambilan Air)
LUT IFU 307 Water Supply – Groundwater intake
(Bekalan Air – Takat Pengambilan Air Bawah Tanah)
LUT IFU 308 Water Supply – Water pump house
(Bekalan Air – Rumah Pam Bekalan Air)
LUT IFU 309 Water Supply – Water Tanks (Bekalan Air – Tangki Air)
LUT IFU 400 Irrigation and Drainage (Pengairan dan Perparitan)
LUT IFU 401 Irrigation and Drainage – Pool Reservoir
(Pengairan dan Perparitan – Kolam Takungan)
LUT IFU 402 Irrigation and Drainage – Detention pond
(Pengairan dan Perparitan – Kolam Tahanan)
LUT IFU 403 Irrigation and Drainage – Pump Station
(Pengairan dan Perparitan – Stesen Pam)

LUT IFU 404 Irrigation and Drainage – Agricultural Drainage
(Pengairan dan Perparitan – Saliran Pertanian)
LUT IFU 405 Irrigation and Drainage – Drainage System Network
(Pengairan dan Perparitan – Rangkaian Sistem Perparitan)

LUT IFU 500 Telecommunication (Telekomunikasi)
LUT IFU 501 Telecommunication – Earth satellite (Telekomunikasi – Satelit Bumi)
LUT IFU 502 Telecommunication – VSAT Station (Telekomunikasi – Stesen VSAT)
LUT IFU 503 Telecommunication – Cellular radio station
(Telekomunikasi – Stesen Radio Selular)
LUT IFU 504 Telecommunication – Exchange building
(Telekomunikasi – Bangunan Ibu Sawat)
LUT IFU 505 Telecommunication – Hill station (Telekomunikasi – Stesen Bukit)
LUT IFU 506 Telecommunication – Radio station (Telekomunikasi – Stesen Radio)
LUT IFU 507 Telecommunication – Radar tower / Antenna
(Telekomunikasi – Menara Radar / Antena)
LUT IFU 508 Telecommunication – IT Hub (Telekomunikasi – IT Hub)
LUT IFU 509 Telecommunication – Telecommunications transmission tower
(Telekomunikasi – Menara Pemancar Telekomunikasi)
LUT IFU 510 Telecommunication – Telecommunications network
(Telekomunikasi – Rangkaian Telekomunikasi)

LUT IFU 600 Solid Waste Disposal (Pelupusan Sisa Pepejal)
LUT IFU 601 Solid Waste Disposal – Solid waste transfer site
(Pelupusan Sisa Pepejal – Pusat Pemindahan)
LUT IFU 602 Solid Waste Disposal – Solid waste disposal site
(Pelupusan Sisa Pepejal – Tapak Pelupusan)
LUT IFU 603 Solid Waste Disposal – Solid waste collection site

(Pelupusan Sisa Pepejal – Tapak Pusat Pengumpulan)

LUT	**IFU 700**	**Toxic Waste Disposal Pelupusan Sisa Toksid**
LUT	IFU 701	Toxic Waste Disposal – Toxic waste treatment plant - Chemical / Hazardous (Pelupusan Sisa Toksid – Loji Rawatan – Kimia / Berbahaya)
LUT	IFU 702	Toxic Waste Disposal – Toxic waste exchange site - Chemical / Hazardous (Pelupusan Sisa Toksid – Pusat Pertukaran – Kimia / Berbahaya)
LUT	IFU 703	Toxic Waste Disposal – Toxic waste incinerator plant - Chemical / Hazardous (Pelupusan Sisa Toksid – Loji Incinerator – Kimia / Berbahaya)
LUT	IFU 704	Toxic Waste Disposal – Under control toxic waste buried site – Chemical/ Hazardous (Pelupusan Sisa Toksid – Timbus Terkawal – Kimia / Berbahaya)
LUT	IFU 705	Toxic Waste Disposal – Toxic waste treatment plant - Clinical (Pelupusan Sisa Toksid – Loji Rawatan – Klinikal)
LUT	IFU 706	Toxic Waste Disposal – Toxic waste exchange site - Clinical (Pelupusan Sisa Toksid – Pusat Pertukaran – Klinikal)
LUT	IFU 707	Toxic Waste Disposal – Toxic waste incinerator plant - Clinical (Pelupusan Sisa Toksid – Loji Incinerator – Klinikal)
LUT	IFU 708	Toxic Waste Disposal – Under control toxic waste buried site - Clinical (Pelupusan Sisa Toksid – Timbus Terkawal – Klinikal)
LUT	IFU 709	Toxic Waste Disposal – Toxic waste treatment plant- Radioactive (Pelupusan Sisa Toksid – Loji Rawatan – Radioaktif)
LUT	IFU 710	Toxic Waste Disposal – Toxic waste treatment centre - Radioactive (Pelupusan Sisa Toksid – Pusat Rawatan – Radioaktif)
LUT	IFU 711	Toxic Waste Disposal – Toxic waste buried site - Radioactive (Pelupusan Sisa Toksid – Timbus – Radioaktif)

LUT	**IFU 800**	**Sewerage (Pembentungan)**
LUT	IFU 801	Sewerage – Sewerage treatment plant (Pembentungan – Loji Rawatan Kumbahan)
LUT	IFU 802	Sewerage – Range pump system (Pembentungan – Stesen Pump Rangkaian)
LUT	IFU 803	Sewerage – Oxidation ponds (Pembentungan – Kolam Oksidasi)
LUT	IFU 804	Sewerage – Others (Pembentungan – Lain-lain)

LUT	**PTA 000**	**Agriculture (Pertanian)**
LUT	**PTA 100**	**Rubber (Getah)**
LUT	PTA 101	Rubber Estate (Ladang Getah)
LUT	PTA 102	Smallholdings rubber (Kebun Kecil Getah)
LUT	PTA 103	Others – Rubber (Lain-lain – Getah)
LUT	**PTA 200**	**Oil palm (Kelapa Sawit)**
LUT	PTA 201	Oil Palm Plantations (Ladang Kelapa Sawit)
LUT	PTA 202	Smallholdings Oil Palm (Kebun Kecil Kelapa Sawit)
LUT	PTA 203	Others – Oil Palm (Lain-lain – Kelapa Sawit)
LUT	**PTA 300**	**Paddy (Padi)**
LUT	PTA 301	Rice Irrigation Scheme (Skim Perairan Padi)
LUT	PTA 302	Non-Rice Irrigation Scheme (Luar Skim Perairan Padi)
LUT	**PTA 400**	**Other Types of Agriculture (Lain-lain Jenis Pertanian)**
LUT	PTA 401	Other Types of Agriculture – orchard (Lain-lain Jenis Pertanian – Dusun)
LUT	PTA 402	Other Types of Agriculture – forest Planting
.		(Lain-lain Jenis Pertanian – Hutan Tanam)

LUT	PTA	403	Other Types of Agriculture – Coffee (Lain-lain Jenis Pertanian – Kopi)
LUT	PTA	404	Other Types of Agriculture – Coco (Lain-lain Jenis Pertanian – Koko)
LUT	PTA	405	Other Types of Agriculture – Tea (Lain-lain Jenis Pertanian – Teh)
LUT	PTA	406	Other Types of Agriculture – Pine (Lain-lain Jenis Pertanian – Mengkuang)
LUT	PTA	407	Other Types of Agriculture – Pineapple (Lain-lain Jenis Pertanian – Nenas)
LUT	PTA	408	Other Types of Agriculture – Tobacco (Lain-lain Jenis Pertanian – Tembakau)
LUT	PTA	409	Other Types of Agriculture – Sugar Cane (Lain-lain Jenis Pertanian – Tebu)
LUT	PTA	410	Other Types of Agriculture – Tapioca (Lain-lain Jenis Pertanian – Ubi Kayu)
.			
LUT	PTA	411	Other Types of Agriculture – Banana (Lain-lain Jenis Pertanian – Pisang)
LUT	PTA	412	Other Types of Agriculture – Rice Paddy (Lain-lain Jenis Pertanian – Padi Bukit)
LUT	PTA	413	Other Types of Agriculture – Black Pepper (Lain-lain Jenis Pertanian – Lada Hitam)
LUT	PTA	414	Other Types of Agriculture – Vegetables (Lain-lain Jenis Pertanian – Sayur-sayuran)
LUT	PTA	415	Other Types of Agriculture – Cash Crops (Lain-lain Jenis Pertanian – Cash Crops)
LUT	PTA	416	Other Types of Agriculture – Spice (Lain-lain Jenis Pertanian – Rempah)
LUT	PTA	417	Other Types of Agriculture – Coconut (Lain-lain Jenis Pertanian – Kelapa)
LUT	PTA	418	Other Types of Agriculture – Others (Lain-lain Jenis Pertanian – Lain-lain)
LUT	**PTA**	**500**	**Vacant Land (Tanah Terbiar)**
LUT	PTA	501	Vacant Land – Not in Operation Agricultural Land (Tanah Terbiar – Tanah Pertanian Tidak Diusahakan)
LUT	PTA	502	Vacant Land – Undevelop Land
.			(Tanah Terbiar – Tanah Tidak Diusahakan)
LUT	**PAA**	**000**	**Livestock and Aquaculture (Penternakan dan Akuakultur)**
LUT	**PAA**	**100**	**Livestock (Penternakan)**
LUT	PAA	101	Livestock – Poultry (Penternakan – Ternakan Ayam)
LUT	PAA	102	Livestock – Cattle farm (Penternakan – Ladang Lembu)
LUT	PAA	103	Livestock – Dairy farm (Penternakan – Ladang Tenusu)
LUT	PAA	104	Livestock – Pig farm (Penternakan – Ladang Babi)
LUT	PAA	105	Livestock – Mixed livestock (Penternakan – Ternakan Campuran)
LUT	PAA	106	Livestock – Duck (Penternakan – Itik)
LUT	PAA	107	Livestock – goose (Penternakan – Angsa)
LUT	PAA	108	Livestock – Kambing (Penternakan – Kambing)
LUT	PAA	109	Livestock – Sheep (Penternakan – Biri-biri)
LUT	PAA	110	Livestock – Grazing (Penternakan – Padang Ragut)
LUT	PAA	111	Livestock – Others (Penternakan – Lain-lain Ternakan)

LUT	**PAA 200**	**Aquaculture (Akuakultur)**
LUT	PAA 201	Aquaculture – Salt Water (Akuakultur Air Masin)
LUT	PAA 202	Aquaculture – Fresh Water (Akuakultur Air Tawar)
LUT	PAA 203	Aquaculture - brackish water (Akuakultur Air Payau)
LUT	**HTA 000**	**Forest (Hutan)**
LUT	**HTA 100**	**Forest Land (Hutan Darat)**
LUT	HTA 101	Forest Land – Reserve forest (Hutan Darat – Hutan Simpan Kekal)
LUT	HTA 102	Forest Land – State reserve forest (Hutan Darat – Hutan Simpan Negeri)
LUT	HTA 103	Forest Land – Protected forest zone (Hutan Darat – Kawasan Hutan Perlindungan)
LUT	**HTA 200**	**Wetlands Forest (Hutan Tanah Lembap)**
LUT	HTA 201	Wetlands Forest – Reserve forest (Hutan Tanah Lembap – Hutan Simpan Kekal)
LUT	HTA 202	Wetlands Forest – State reserve forest (Hutan Tanah Lembap – Hutan Simpan Negeri)
LUT	HTA 203	Wetlands Forest – Protected forest zone (Hutan Tanah Lembap – Kawasan Hutan Perlindungan)
LUT	**HTA 300**	**Peat forests (Hutan Tanah Gambut)**
LUT	HTA 301	Peat forests – Reserve forest (Hutan Tanah Gambut – Hutan Simpan Kekal)
LUT	HTA 302	Peat forests – State reserve forest (Hutan Tanah Gambut – Hutan Simpan Negeri)
LUT	HTA 303	Peat forests – Protected forest zone (Hutan Tanah Gambut – Kawasan Hutan Perlindungan)
LUT	**HTA 400**	**Cleared Forest (Hutan Yang Dibersihkan)**

LUT	**BAA 000**	**Water Body (Badan Air)**
LUT	**BAA 100**	**Natural Water Bodies (Badan Air Semulajadi)**
LUT	BAA 101	Natural Water Bodies – River (Badan Air Semulajadi – Sungai)
LUT	BAA 102	Natural Water Bodies – Lake (Badan Air Semulajadi – Tasik)
LUT	BAA 103	Natural Water Bodies – Swamp (Badan Air Semulajadi – Paya)
LUT	BAA 104	Natural Water Bodies – Lagoon / cape (Badan Air Semulajadi – Lagun / Tanjung)
LUT	BAA 105	Natural Water Bodies – Sea (Badan Air Semulajadi – Laut)
LUT	**BAA 200**	**Made Water Bodies (Badan Air Buatan)**
LUT	BAA 201	Made Water Bodies – Fomer mining site (Badan Air Buatan – Bekas Lombong)
LUT	BAA 202	Made Water Bodies – Recreational lake (Badan Air Buatan – Tasik Rekreasi)
LUT	BAA 203	Made Water Bodies – Dam lake (Badan Air Buatan – Tasik Empangan)
LUT	**PNA 000**	**Coast (Pantai)**
LUT	**PNA 100**	**Natural Coast (Pantai Semulajadi)**
LUT	PNA 101	Natural Coast – Public Coast (Pantai Semulajadi – Pantai Awam)
LUT	PNA 102	Natural Coast – coast Forest (Pantai Semulajadi – Pantai Hutan)
LUT	**PNA 200**	**Causeway coast (Pantai Tambak)**
LUT	PNA 201	Causeway coast – Public Coast (Pantai Tambak – Pantai Awam)
LUT	PNA 202	Causeway coast – coast Forest (Pantai Tambak – Pantai Hutan)

LVS **Level of Service**

Operating conditions (freedom to maneuver) at the time the traffic is at the design hour volume

LVS	A	Free Flow with low volumes, densities and high speeds. Drivers can maintain their disered desire speeds with little or no delay.
LVS	B	Stable Flow. Operating speeds beginning to be restricted somewhat by traffic conditions. Some slight delay.
LVS	C	Stable Flow. Speeds and maneuverability are more closely controlled by higher volumes. Acceptable delay.
LVS	D	Approaching Unstable Flow. Tolerable operating speeds which are considerably affected by operating conditions. Tolerable delay.
LVS	E	Unstable Flow. Yet lower operating speeds and perhaps stoppages of momentary duration. Volumes are at or near capacity congestion and intolerable delay.
LVS	F	Forced Flow. Speeds and volume can drop to zero. Stop pages can occur for long periods. Queues of vehicles backing up from, a restriction downstream.

MAE **Mineral Anomaly Elements**

Identifies the elements of a mineral anomaly

MAE 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

MDF **Mixed Dipterocarp Forest Type**

Type of a mixed dipterocarp forest

MDF	1	Upper Dipterocarp
MDF	2	Hill Dipterocarp
MDF	3	Lowland Dipterocarp

MED **Road Median**

Type of Road Median

MED	1	Concrete
MED	2	Safety Barrier
MED	3	Drain Median
MED	4	Vegetation Cover

MET **Mineral Exploration Block Type**

Type of a mineral exploration block

MET	1	Geological
MET	2	Geochemical
MET	3	Geophysical
MET	4	Prospecting
MET	5	Geological Remote Sensing

MET	6	Environmental Geology
MET	7	Hydrogeology
MET	8	Engineering Geology

MFT Montane Forest Type

Type of a montane forest

MFT	1	Upper Montane Forest
MFT	2	Lower Montane Forest

MIC Mineral Category

Identifies the category of a mineral

MIC	1	Occurrence
MIC	2	Prospect
MIC	3	Deposit
MIC	4	Reserve

MIG Mineral Group

Identifies the group of minerals

MIG	1	Metallic minerals
MIG	2	Non-metallic minerals
MIG	3	~~Precious minerals~~ Fertilizer minerals
MIG	4	Energy minerals
MIG	5	Mixed minerals

MIN Mineral Name

Identifies the name of a mineral

	PRECIOUS METAL	
MIN	111	Gold
MIN	112	Silver
MIN	113	Platinum
MIN	114	Titanium
	BASE METAL	
MIN	121	Copper
MIN	122	Lead
MIN	123	Zink
MIN	124	Antimony
MIN	125	Mercury

MIN	126	Bismuth
MIN	127	Galena
MIN	128	Barite
MIN	129	Barite/Zink

LIGHT METAL

MIN	131	Bauxite
MIN	132	Ilmenite
MIN	133	Beryllium
MIN	134	Lithium

IRON & FERROUS ALLOY

MIN	141	Iron
MIN	142	Manganese
MIN	143	Tungsten
MIN	144	Chromium
MIN	145	Cobalt
MIN	146	Molybdenum
MIN	147	Nickel
MIN	148	Columbite-tantalum
MIN	149	Magnesium

TIN & ASSOCIATED MINERAL

MIN	151	Tin
MIN	152	Tin/Cassiterite
MIN	153	Tin/cassiterite & cobaltium

RARE METALS

MIN	161	Niobium-tantalum
MIN	162	Zirconium
MIN	163	Yttrium/Thorium
MIN	164	Monazite
MIN	165	Xenotime
MIN	166	Xenotime/Monazite
MIN	167	Allanite

CLAY-BASED

MIN	211	Common clay
MIN	212	Ball clay
MIN	213	Kaolin
MIN	214	Marine clay
MIN	215	Kaolinitic clay
MIN	216	Shale

SAND-BASED

MIN	221	Silica sand
MIN	222	Sand and gravel
MIN	223	Feldsphatic sand

ROCK-BASED

MIN	231	Dimension stone
MIN	232	Rock aggregate
MIN	233	Silica rock
MIN	234	Quartz sericite
MIN	235	Feldspar
MIN	236	Baryte

MIN 237 Dolomite
MIN 238 Jade

ENERGY MINERALS
MIN 301 Coal
MIN 302 Uranium

FERTILIZER MINERALS
MIN 401 Phosphate/Guano

MKT Marker Type

Type of an international or state boundary marker

MKT 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

MNT Mine Type

Type of a mine

MNT 1 Surface (other than dredging)
MNT 2 Dredging
MNT 3 Underground

MOS Monument Station

Identifies whether or not a surveyed point is monumented

MOS 1 Monumented
MOS 2 Not Monumented

MPT Mine Pit Type

Type of a mine pit

MPT 1 Surface
MPT 2 Underground

MRG Metamorphic Rock Group

Identifies the group of metamorphic rocks

MRG 1 ~~Regional~~ Regional metamorphic rock
MRG 2 ~~Contact~~ Contact metamorphic rock
MRG 3 ~~Dynamic~~ Dynamic metamorphic rock
MRG 4 Impact metamorphic rock

MRT Metamorphic Rock Type

Type of a metamorphic rock

REGIONAL MET. TYPE

MRT	101	Marble
MRT	102	Slate
MRT	103	Phyllite
MRT	104	Schist
MRT	105	Gneiss
MRT	106	Metasandstone
MRT	107	Metaconglomerate
MRT	108	Serpentinite

CONTACT MET. TYPE

MRT	201	Hornfels
MRT	202	Greisen
MRT	203	Skarn
MRT	204	Granulite
MRT	205	Migmatite

DYNAMIC MET. TYPE

MRT	301	Mylonite
MRT	302	Phyllonite
MRT	303	Cataclasite
MRT	304	Pseudotachylite

IMPACT MET. TYPE

MRT	401	Tektites
MRT	402	Suevites

MSC Meteorology Station ~~Category~~ Type

Category of a meteorological station

MSC	1	Main
MSC	2	Auxiliary

MSL Mean Sea Level

Mean Sea Level measurement

MSL	0	Actual Value

Units	Format	Range	Increment	Maximum Character
	Real Number			8 Characters

MSS Motorcycle Shelter Structure

Type of motorcycle shelter structures

MSS	1	Hut-Style Lay By
MSS	2	Improvised Space underneath High-level Overpass

MTP **Mineral Type**

Type of a mineral

MTP 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

MTT **Mining Tail Area Type**

Type of a mining tail area

MTT 1 Wet area
MTT 2 Dry area

MTY **Metallic Mineral Type**

Type of a metallic mineral

MTY 1 Precious metals
MTY 2 Base metals
MTY 3 Light metals
MTY 4 Iron & ferrous alloy
MTY 5 Tin & associated minerals
MTY 6 Rare metals

NAM **Name**

Any name to identify a feature

NAM 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			80 Characters

NAT **Navigation Aid Type**

Type of a navigation aid

NAT 1 Locator
NAT 2 Non-Directional Beacon (NDB)
NAT 3 VHF Omni-Directional Radio Range (VOR)
NAT 4 UHF Tactical Air Navigation Aid (TACAN)

NBE **Nos of Berm**

Nos of Berm value

NAM 0 Actual Value

Units	Format	Range	Increment	Maximum Character
	Alphanemuric			24 Characters

NBR **Road Noise Barrier Structure**

Possible structure of road noise barriers

NBS 1 At-grade
NBS 2 Elevated

NBS **Number of Bridge Span**

Number of span supporting a bridge

NBS 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Span	Short Integer			

NBT **Road Noise Barrier Type**

Possible type of road noise barriers

NBT 1 Concrete Masonry Unit
NBT 2 Metal

NMT **Non-Metallic Mineral Type**

Type of a non-metallic mineral

NMT 1 Clay-based
NMT 2 Sand-based
NMT 3 Rock-based
NMT 4 Other non-metallic minerals

NOB **Number of Berth**

Number of Berth

NOB 0 Actual Value

Units	Format	Range	Increment	Maximum Character
	Alphanemuric			24 Characters

NOC **Nature of Construction**

Nature of construction

NOC 0 Actual Value

Units	Format	Range	Increment	Maximum Character
	Alphanemuric			24 Characters

NOD **Number of Direction**

The total number of directions a vehicle is allowed to proceed at a road junction

NOD 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Span	Short Integer			

NOS **Number of Storey**

Number of storey of a building or man-made structure

NOS 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Storey	Floating			

NUM **Number**

Any number to identify a feature

NAM 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			

OPS **Operational Status**

Identifies the status of a mine/quarry

OPS 1 Active
OPS 2 Inactive
OPS 3 Abandoned

OSP Offshore Production

Type of offshore production

OSP	1	Gas
OSP	2	Oil

OSM Outer Space Material

Type of outer space material

OSM	1	Stony (chondrite and achondrite)
OSM	2	Stony-iron
OSM	3	Iron

PAT Parking Area Type

Type of a parking area

PAT	1	On Ground
PAT	2	Underground
PAT	3	Multistorey

PAU Passage Usage

Usage of an overhead or subway passage

PAU	1	Pedestrian
PAU	2	Cycle
PAU	3	Both

PCC Coverage Percentage

Percentage of survey area covered

PCC 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Percent	Floating			

PCU Pond Complex Usage

Usage of the pond complex

PCU	1	Flood Retention
PCU	2	Silt Retention
PCU	3	Recreational

PCU	4	Aquatic Farming
PCU	5	Others

PD1 Primary Destination_1

Distance value display on kilometre post

DS2 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Alphanumeric	1 to 10			24 Characters

PER Person

Name of the responsible person

PER 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

PFT Planted Forest Type

Type of a planted forest

PFT	1	Pine Tree
PFT	2	Acacia
PFT	3	Teak
PFT	4	Sentang
PFT	5	Hevea

PGS Playground Services

Type of playground services

PGS	1	Children
PGS	2	Tennis
PGS	3	Futsal
PGS	4	Takraw
PGS	5	Badminton
PGS	6	X-game

PHU Pump House Usage

Usage of a pump house

PHU	1	Water Supply
PHU	2	Flood
PHU	3	Drainage

PHU	4	Ground Water
PHU	5	Irrigation/Agriculture

PIL Pillar Status

Status of Pillar

PIL	1	Unfinalized
PIL	2	Finalized

PLA Power Line Category

Category of a power line

PLA	1	On Ground
PLA	2	Under Ground
PLA	3	Elevated
PLA	4	Sub Marine

PLC Power Line Characteristic

Identifies whether the power line is insulated or bare

PLC	1	Insulated
PLC	2	Bare

PLT Power Line Type

Type of a power line

PLT	1	Transmission
PLT	2	Distribution

POT Pond Type

Type of a pond

POT	1	Retention
POT	2	Detention
POT	3	Aquaculture
POT	4	Wastewater
POT	5	Mining

POU Pole Usage

Usage of a pole

POU	1	Electricity
POU	2	Telecommunication

PPT Pipe Line Type

Type of an oil/gas pipeline

PPT	1	Gas
PPT	2	Oil

PRJ Project Name

Name of the project/ company

PRJ 0 Actual Value

Units	Format	Range	Increment	Maximum Character
	Alphanumeric			24 Characters

PRN Priority

Identifies the importance of an anomaly for follow-up investigation

PRN	1	Require immediate follow-up
PRN	2	Require follow-up
PRN	3	May require follow-up
PRN	4	Does not require follow-up

PRT Processing Plant Type

Type of a processing plant

PRT	1	Liquid Propane Gas (LPG)
PRT	2	~~NGV~~ Natural Gas
~~PRT~~	~~3~~	~~Natural Gas~~

PSA Principal Submitted Person Contact Address

Contact address of the responsible person

PSA 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			100 Characters

PSN Principal Submitted Person Contact Number

Contact number of the responsible person

PSN 0 Actual Value

Units	Format	Range	Increment	Maximum Character

Text String	ASCII Text			20 Characters

PSP **Principal Submitted Person**

Contact number of the responsible person

PSP 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			100 Characters

PST **Power Station Type**

Type of energy source used to generate power

PST	1	~~Hydro~~ Hydroelectric
PST	2	~~Coal~~ Thermal
PST	3	~~Oil~~ Wind
PST	4	~~Gas~~ Solar
PST	5	~~Diesel~~ Nuclear
PST	~~9~~ 999	~~Cogen~~ Others

PTY **Profile Type**

Type of a profile

PTY	1	Geological cross section
PTY	2	Hydrogeological cross section
PTY	3	Engineering geology profile
PTY	4	Geophysical profile

PVT **Pavement Surface Type**

The selection of pavement type is determined by the volume and composition of traffic etc

PVT	1	Asphaltic Concrete Wearing Course
PVT	2	Dense Bituminous Macadam
PVT	3	Polymer Modified Asphalt
PVT	4	Concrete
PVT	5	Stone Mastic Asphaltic
PVT	6	Continuous Reinforces Concrete Pavement
PVT	7	Gravel/Semigrout (unpaved)

PVT 8 Interlocking Block (unpaved)
PVT 9 Earth (unpaved)

PYU Pylon Usage

Identifies the usage of a pylon

PYU	1	Electricity transmission
PYU	2	Cable car

QAT Quarry Authorized Type

Type of an authorized quarry

QAT	1	Lease
QAT	2	License
QAT	3	Permit

QUT Quarry Type

Type of a quarry

QUT	1	Surface
QUT	2	Subsurface

QUU Quarry Use

Identifies the use of a quarry

QUU	1	Aggregate
QUU	2	Dimension stone
QUU	3	Agricultural application
QUU	4	Lime
QUU	5	Cement
QUU	6	Armour stone

RBT Rock Boulders Type

Type of a rock boulder

RBT	0	Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

RBU Religious Building Usage

Usage of a religious building

RBU	1	Surau
RBU	2	Mosque
RBU	3	Chapel or Church
RBU	4	Chinese Temple
RBU	5	Hindu Temple
RBU	6	Buddhist Temple
RBU	7	Sikh Temple
RBU	8	Thai Temple
RBU	9	Bahai Temple

RCF Federal Road Category

RCF	1	Major federal road
RCF	2	Regional development Scheme Road
RCF	3	Access road to Federal Government Institutions
RCF	4	Industrial road

RCS Road Class

Identifies the Type of Road

RCS	1	Dual Carriage Highway
RCS	2	Single Carriage Highway
RCS	3	Dual Carriage Road
RCS	4	Single Carriage Road
RCS	5	Unsealed Road
RCS	6	Road Under Construction

RCT Religious Burial Ground Type

Type of a burial ground

RCT	1	Muslim
RCT	2	Christian
RCT	3	Chinese
RCT	4	Hindu
RCT	5	Bahai
RCT	6	Sikh
RCT	7	Orang Asli
RCT	8	Mixed

RDC Road Category

Category of a road

RDC	1	Toll Expressway & Toll Highway – Interstate national network for through traffic with full control of access
RDC	2	Federal Trunk Road (Jalan Persekutuan) –Major roads forming the basic network of the road transportation system within states ; link up state capitals & district capitals or other major towns
RDC	3	State Road (Jalan Negeri) – Major roads forming the basic network of the road transportation system within districts.

RDC	4	Municipility Road (Jalan PBT) – Major roads which penetrate and serve identifiable neighborhoods, commercial areas and industrial areas.
RDC	5	Private Road – Basic road network owned by certain individuals.
RDC	6	Jalan Kampung / Rural Roads – Basic road network within a neighborhood serves primarily to offer direct access to abutting land.
RDC	7	Loggers Road
RDC	8	Farm Road (Jalan Pertanian)

RDF Traffic Flow

Identifies whether the traffic flow is in one or two direction

RDF	1	One Direction
RDF	2	Two Direction

RDS Road Service Area

An area where Road Service located

RDS	1	Urban
RDS	2	Rural

REC Record Number

Identifies the file or record number

REC	0	Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			12 Characters

RES Report Status

Identifies the status of a report

RES	1	Draft
RES	2	Final

RET Residential Building Type

Type of building used for residential purposes

RET	1	Detached
RET	2	Semi Detached
RET	3	Terrace/Link
RET	4	Multi Storey
RET	5	Long House
RET	6	Cluster

RET	7	Town Houses
RET	8	Multi Unit

REU Residential Usage

Usage of a residential building

REU	1	Condominium
REU	2	Service Apartment
REU	3	Apartment
REU	4	Low Cost House
REU	5	Low Cost Flat
REU	6	Public Housing
REU	7	Private Housing
REU	8	Flat
REU	9	Government Quarters
REU	10	Squatters
REU	11	Transit Housing
REU	12	Communal Housing

RFC Reef Category

Category of a reef

RFC	1	Submerged Reef
RFC	2	Inter Tidal Reef

RFT Rockfall Type

Type of a rockfall

RFT	1	Toppling
RFT	2	Planar
RFT	3	Wedge

RGS Regulartory Sign

RGS	Rp.1	Stop At Junction (Berhenti Di Persimpangan)
RGS	Rp.2a	No Left Turn (Dilarang Belok Ke Kiri)
RGS	Rp.2b	No Right Turn (Dilarang Belok Ke Kanan)
RGS	Rp.3	No 'U'-Turn (Dilarang Berpusing Balik)
RGS	Rp.4	No Entry (Kenderaan Dilarang Masuk)
RGS	Rp.5	Vehicle Exceeding - Tonne Kept Out (Kenderaan Melebihi - Tan Dilarang Masuk)
RGS	Rp.6	Vehicle Exceeding - Altimeter Kept Out (Kenderaan Melebihi - Meter Tinggi dilarang Masuk)
RGS	Rp.7	Speed Limit (Had Laju)
RGS	Rp.8a	This Type Vehicle Kept Out (Kenderaan Jenis Ini Dilarang Masuk)
RGS	Rp.8b	Motorcycle Kept Out (Motorsikal Dilarang Masuk)
RGS	Rp.9	Speed Limit End (Had Laju Tamat)
RGS	Rp.10	Prohibited Park (Dilarang Meletak Kenderaan)
RGS	Rp.11	Prohibited Stop (Dilarang Berhenti)

RGS	Rp.12	Prohibited Honking (Dilarang Membunyikan Hon)
RGS	Rp.13	Give Way (Beri Laluan)
RGS	Rp.14	Vehicle Exceeding – Meter Broad Kept Out (Kenderaan Melebihi Meter – Lebar Dilarang Masuk)
RGS	Rp.15	Stop Sign For Children Crossing (Berhenti Kanak-Kanak Melintas)
RGS	Rp.17	Prohibited Overtake (Dilarang Memotong)
RGS	Rp.18	Prohibited Fishing (Dilarang Memancing)
RGS	Rm.1a	Arrow (Left/Right) (Ikut Arah)
RGS	Rm.1b	Arrow (Straight) (Ikut Arah)
RGS	Rm.1c	Straight Or Turn Right Only (Jalan Terus Atau Belok Ke Kanan Sahaja)
RGS	Rm.1d	Turn Right Only (Belok Ke Kanan Sahaja)
RGS	Rm.4	Keep Left (Ikut Kiri)
RGS	Rm.2a	Cycle Track (Lorong Basikal Sahaja)
RGS	Rm.2c	Motorcycle Lane (Lorong Motosikal Sahaja)

RGU Road Guide Sign

RGU	G.11	Perhentian Bas Bus Stop
RGU	G.13	Telefon Awam Public Phone
RGU	G.14	Tempat Letak Kenderaan Parking Area
RGU	G.15	Pusat Kesihatan Health Centre
RGU	G.16	Hospital Hospital
RGU	G.17	Stesen Minyak Petrol Station
RGU	G.18	Jalan Mati Dead End
RGU	G.19	Dibenarkan Berpusing Balik U-Turn Sign
RGU	T.1	Jalan Sedang Diperbaiki Road Works
RGU	T.8a	Lencongan Detour Sign
RGU	Gd.1	Papan Tanda Tempat Tuju/Destinasi Distance To Reach Destination
RGU	Gd.2	Papan Tanda Tempat Tuju/Destinasi Distance To Reach Destination
RGU	Gt.1	Papan Tanda Tunjuk Arah Intersection Direction Sign
RGU	Gt.2	Papan Tanda Tunjuk Arah Dengan Papan Tanda Kawasan Perlancongan Signboard Show Direction With Tourism Area Signboard
RGU	Gt.3	Papan Tanda Tunjuk Arah Dengan Papan Tanda Ke Lebuh Raya Signboard Show Direction With Signboard Show Direction To Highway
RGU	Gt.4	Papan Tanda Tunjuk Arah Bulatan Signboard Show Circular Path
RGU	Gt.5	Papan Tanda Panduan Arah Di Atas Gantri Directions Signboard On Gantry
RGU	Gt.6	Papan Tanda Panduan Arah Di Lebuhraya Direction Signboard On Highways
RGU	Gx.1	Papan Tanda Jarak Distance Signboard (2 Route)
RGU	Gx.2	Papan Tanda Jarak Distance Signboard (1 Route)

RGT Railway Gate Type

Type of a railway gate

RGT	1	Manned
RGT	2	Unmanned

RIT Ridge Type

Type of a ridge

RIT	1	Outcrop

RIT 2 Non Outcrop

RKT Rock Type

Type of a rock

RKT 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

RLH Road Level Height

Identifies the Level of Height

RLH 1 Lower level
RLH 2 Second level or tier of the road from bottom
RLH 3 Third level or tier of the road from bottom
RLH 4 Fourth level or tier of the road from bottom
RLH 5 Fifth level or tier of the road from bottom
RLH 6 Sixth level or tier of the road from bottom

RLP Reclaimed Land Purpose

Usage of land after reclamation

RLP 1 Industrial
RLP 2 Residential
RLP 3 Recreational
RLP 4 Commercial

RML Road Marking Location

RML 1 Left hand side
RML 2 Center
RML 3 Right hand side
RML 4 All

RNO Registered Number

Unique reference number of a feature

RNO 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			12 Characters

ROT **Rock Outcrop Type**

Type of a rock outcrop

ROT 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

RPS **Portion Class**

Type of portion class

RPS 1 Upper
RPS 2 Lower
RPS 3 Close

RPT **Riverbank Protection Type**

Type of material used for river protection works

RPT 1 Concrete
RPT 2 Steel
RPT 3 Rocks
RPT 4 Bakau

RPV **Road Pavement Type**

The physical surface type of a road

RPV 1 Rigid
RPV 2 Flexible

RRC **Rural Road Category**

Categories of roads in rural areas

RRC 1 Expressway
RRC 2 Highway
RRC 3 Primary Road
RRC 4 Secondary Road
RRC 5 Minor Road

RSC **Road Surface Composition**

The physical surface composition of a road

RSC 1 Paved (sealed)
RSC 2 Unpaved (Unsealed)

RST **Rail Station Type**

Type of a rail station

RST	1	Station
RST	2	Halt

RTC Rail Track Category

Category of a rail track

RTC	1	Single Rail
RTC	2	Standard Gauge Rail
RTC	3	Meter Gauge Rail

RTE Rail Track Electrification

Identifies whether or not electricity is provided for a rail track

RTE	1	Electrified
RTE	2	Non Electrified

RTF Rail Track Function

Type of a rail track in terms of its functionality

RTF	1	Main
RTF	2	Branch
RTF	3	Siding
RTF	4	Loop
RTF	5	Spurline

RTN Route Number

Official route number assigned to a route

RTN 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			6 Characters

RTR Rail Tracking

Identifies whether a rail is a single or double track

RTR	1	Single Track Rail
RTR	2	Double Track Rail
RTR	3	Single Track Light Rail
RTR	4	Double Track Light Rail
RTR	5	High Speed Rail

RTU Rail Usage

Usage of a rail track, station or terminal

RTU	1	Mono Rail
RTU	2	Keretapi Tanah Melayu (KTM)
RTU	3	Express Rail Link (ERL)
RTU	4	~~Projek Usahasama Transit Aliran Ringan (PUTRA)~~ Sistem Transit Aliran Ringan
~~RTU~~	~~5~~	~~Sistem Transit Aliran Ringan (STAR)~~
RTU	6	Funicular
RTU	7	Electrict Train Service (ETS)
RTU	8	Mass Rapid Transit (MRT)
RTU	9	High Speed Train

RVT Reservoir Type

Type of a reservoir

RVT	1	~~Balancing~~ Reinforced Concrete (RC)
RVT	2	~~Service~~ Prestressed Concrete
RVT	3	Fibreglass Reinforced Polyester (FRP)
RVT	4	Glass Coated Steel
RVT	5	Galvanised Pressed Steel
RVT	999	Others

RVU Reservoir Use

Use of a reservoir

RVU	1	Balancing
RVU	2	Principal
RVU	3	Service

RYT River Groyne Type

Type of material used for river protection works

RYT	1	Permeable
RYT	2	Impermeable

RWC Reservoir/Water Tank Category

Reservoir/water tank Category

RWC	1	Covered
RWC	2	Uncovered
RWC	3	Tower

SBS Base saturation

Base saturation refers to the proportion of the cation exchange sites in the soil that are occupied by the various cations (hydrogen, calcium, magnesium, potassium)

SBS	1	Low (< 50%)
SBS	2	High (> 50%)

SCC Submarine Cable Category

Category of a submarine cable

SCC	1	Power
SCC	2	Telecommunication

SCG Soil Colour Group

Dominant soil matrix colour taken at 50 cm depth from soil surface or just above the lithic or paralithic contact whichever is shallower

SCG	DR	Dusky red
SCG	BR	Brown
SCG	Rd	Red
SCG	RY	Red-yellow
SCG	Yw	Yellow
SCG	Pd	Pallid
SCG	Gy	Gray
SCG	Bk	Dark brown-black
SCG	Gg	Greenish grey
SCG	Ol	Olive

SCN Scientific Name

Scientific Name applied

SCN 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

SCT Clinic Service Type

Category of a Clinic Service Type

SCT	1	Rural
SCT	2	Dental
SCT	3	Maternity
SCT	4	Polyclinic

SD2 Secondary Destination_2

Distance value display on kilometre post

SD2 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Alphanumeric	1 to 10			24 Characters

SDA Submission Date

Date of Planning Permission Submission

SDA 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Date	yyyy /mm/ dd			

SDG Soil Drainage Class

Soil drainage is the frequency and duration of periods when the soil is free of saturation or partial saturation.The depth of occurrence and intensity of gley features usually indicate the drainage status/class of the soil.

SDG 0 Very poorly drained
SDG 1 Somewhat poorly drained
SDG 2 Poorly drained
SDG 3 Somewhat poorly drained
SDG 4 Imperfectly drained
SDG 5 Somewhat imperfectly drained
SDG 6 Moderately well drained
SDG 7 Well drained
SDG 8 Somewhat excessively drained
SDG 9 Excessively drained

SDC Surficial Deposit Composition Type

Composition of a surficial deposit

SDC 0 Unknown
SDC 1 Clay
SDC 2 Mud
SDC 3 Silt

SDC	4	Loess
SDC	5	Sand
SDC	6	Gravel
SDC	7	Peat
SDC	8	Volcanic ash
SDC	9	Coral
SDC	10	Shell

SDP Depth to pedological features

The effctive depth of the soil at which root growth of grasses or crops is strongly inhibited

SDP	1	0 - 25 (Very shallow)
SDP	2	25 - 50 (Shallow)
SDP	3	50 - 75 (Somewhat moderately deep)
SDP	4	75 - 100 (Moderately deep)
SDP	5	100 - 125 (Deep)
SDP	6	> 125 (Very deep)

SDT Surficial Deposit Type

Type of a surficial deposit

SDT	1	Residual
SDT	2	Alluvial
SDT	3	Glacial

SEC Section Number

Official section number assigned to a route by the road authority

SEC 0 Actual Value

Units	Format	Range	Increment	Maximum Character
	Real Number			8 Characters

SFA Abundance of Pedological features

The percentage coverage of hard rocks or indurated gravel layers.

SFA	0	None
SFA	VF	Very few < 15%
SFA	F	Few 15-35%
SFA	C	Common 35-60%

SFA	M	Many 60-80%
SFA	A	Abundant >80%

SFT Swamp Forest Type

Type of forest found in swampy area on coastal and riverian flats

SFT	1	Peat Swamp Forest
SFT	2	Freshwater Swamp Forest
SFT	3	Nipah

SGR Slope Gradient

A value representing the gradient of a slope

SGR 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Percentage	Floating			

SHT Shore Type

Tabulates the material type likely to be found at a shore

SHT	1	Sandy
SHT	2	Stony
SHT	3	Muddy

SHV Spot Height Value

A value representing above mean sea level height, usually for photogrammetrically derived point

SHV 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Percentage	Floating			

SIG Signalisation

Identifies whether or not a feature is signalized.

SIG	1	Signalised
SIG	2	Unsignalised

SKH **Sinkhole Type**

Types of sinkhole

SKH	1	Dissolution
SKH	2	Cover-subsidence
SKH	3	Cover-collapse

SLC **Street Light Category**

Category of a street light

SLC	1	On Ground
SLC	2	Under Ground

SLD **Slope Designation**

Possible slope designation

SCN 0 Actual Value

Units	Format	Range	Increment	Maximum Character
	Alphanumeric			24 Characters

SLF **Soil Local Family Name**

Name of soil local family

SLF 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text	ASCII			24 Characters

SMC **Soil Colour Matrix**

Actual dominant soil matrix colour taken at 50 cm depth from soil surface or just above the lithic or paralithic contact whichever is shallower using Munsell Soil Colour Chart

SMC 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			50 Characters

SMD **Sewerage Force Main Diameter**

The diameter of a sewerage main line

SMD 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Millimeters	Short Integer			24 Characters

SMM Sewerage Force Main Material

Material used for the construction of a sewerage main line

SMM	1	Steel
SMM	2	Centrifugal Glass Reinforced Plastic
SMM	3	Unplasticised Polyvinyl Chloride
SMM	4	Ductile Iron

SMN Soil Minerology Class

Soil Minerology Class

SMN 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text	ASCII			30 Characters

SMP Soil material type underlying the organic layer/peat

Dominant mineral soil between 50 -100 cm depth from soil surface if it is shallow organic soil OR dominant soil material > 100 cm depth from soil surface if it is moderately deep or deep organic soil

SMP	1	Clayey riverine
SMP	2	Loamy riverine
SMP	3	Sandy riverine
SMP	4	Clayey Marine/ Estuarine/ Brackish (Non sulfuric/Non sulfidic)
SMP	5	Loamy Marine/ Estuarine/ Brackish (Non sulfuric/Non sulfidic)
SMP	6	Sandy Marine/ Estuarine/ Brackish (Non sulfuric/Non sulfidic)
SMP	7	Clayey Marine/ Estuarine/ Brackish (Sulfuric/Sulfudic)
SMP	8	Loamy Marine/ Estuarine/ Brackish (Sulfuric/Sulfudic)
SMP	9	Sandy Marine/ Estuarine/ Brackish (Sulfuric/Sulfudic)
SMP	10	Sapric material on Marine/ Estuarine/ Brackish (Non sulfuric/Non sulfidic)
SMP	11	Hemic material on Marine/ Estuarine/ Brackish (Non sulfuric/Non sulfidic)
SMP	12	Fibric material on Marine/ Estuarine/ Brackish (Non sulfuric/Non sulfidic)
SMP	13	Sapric material on Marine/ Estuarine/ Brackish (Sulfuric/Sulfudic)
SMP	14	Hemic material on Marine/ Estuarine/ Brackish (Sulfuric/Sulfudic)
SMP	15	Fibric material on Marine/ Estuarine/ Brackish (Sulfuric/Sulfudic)

STT Soil Terrain Class

Refers to the slope which dominates the area of a soil series or association.

STT	C1	Flat (0 – 2 degree)
STT	C2	Undulating (2 – 6 degree)
STT	C3	Rolling (6 – 12 degree)
STT	C4	Hilly (12 – 20 degree)

STT	C5	Very hilly (20 – 25 degree)
STT	C6	Steep (25 – 30 degree)
STT	C7	Very steep (>30 degree)

SPD Sewerage Pipe Diameter

Diameter of a sewerage pipe

SPD 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Millimeters	Short Integer			

SPE Soil Profile Development

A constructive process where in disintegrated material resulted from weathering of rocks and minerals gets converted into a soil body. It is a key to understanding the processes that have taken in soil development and is the means of determining the types of soil that occur and is the basis for their classification

SPE	A	Argillic horizon
SPE	C	Cambic horizon
SPE	E	Albic horizon
SPE	F	Sulfidic material
SPE	H	Organic soil
SPE	M	Mollic epipedon
SPE	O	Oxic horizon
SPE	S	Spodic horizon
SPE	T	Sulfuric (thionic) horizon
SPE	U	No diagnostic horizon/property
SPE	V	Vertic properties

SPF Type of Pedological features

Type of hard rock or indurated gravel layers that governed the effective depth of the soil.

SPF	O	None
SPF	C	Laterised parent materials
SPF	L	Laterite
SPF	M	Manganese
SPF	P	Plinthite
SPF	W	Pebbles/stones
SPF	R	Rock fragments
SPF	V	Vein quartz
SPF	Q	Quartz

SPH Soil pH-range

The term acid, neutral and alkaline refer to the relative concentrations of hydrogen ions (H+) and hydroxyl ions (OH-) in the soil solution. These concentrations are measured in terms of pH value, which gives a measure of the active acidity in the soil solution. Soil pH is a measure of soil acidity.

SPH	1	Extremely acid (<3.5 pH)
SPH	2	Very strong acid (3.5 - 5.0 pH)
SPH	3	Strongly acid (5.1 - 5.5 pH)
SPH	4	Moderately acid (5.6 - 6.0 pH)
SPH	5	Slightly acid (6.1 - 6.5 pH)
SPH	6	Neutral (6.6 - 7.3 pH)
SPH	7	Slightly alkaline (7.4 - 7.8 pH)
SPH	8	Moderately alkaline (7.9 - 8.4 pH)
SPH	9	Strongly alkaline (8.5 - 9.0 pH)

SPM Sewerage Pipe Material

Material used for the construction of a sewerage pipe

SPM	1	Vitrified Clay
SPM	2	Reinforced Concrete
SPM	3	High Density Polyethylene
SPM	4	Centrifugal Glass Reinforced Plastic
SPM	5	Ductile Iron
SPM	999	Others

SPA Soil Parent Material

Soil Parent material

SPA	G	Granite, Adamellite, Syenite, Microgranite, Gneiss
SPA	R	Rhyolite, Rhyolitic tuff, Rhyodacite, Trachyte.
SPA	D	Diorite, Granidiorite, Dacite, Dacitic tuff, Quartz andesite.
SPA	B	Andesite, Basalt, Andesitic tuff, Basic Tuff, Gabbro, Norite, Serpentinite, Dunnite, Biotite schist, Amphibolite.
SPA	Q	Conglomerate, quartzite, Sandstone,and other predominantly arenaceous rocks.
SPA	S	Shale, Slate, Mudstone, Phyllite, Siltstone quartz mica schist and other predominantly argillaceous rocks.
SPA	L	Limestone, Dolomite and other predominantly calcareous rocks
SPA	P	Reworked material (sol remanie) or lateritic soil
SPA	T3	Older Alluvium and terraces
SPA	T2	Subrecent alluvium and coluvium materials
SPA	T1	Recent alluvium deposits
SPA	A	Beach ridge and related deposits
SPA	E	Marine, brackish water and estuarine deposits
SPA	O	Organic deposits
SPA	H	Human influence(urban and mining)

SPS Soil Particle Size Class

Soil Particle Size Class

SPS 0 Actual Value

Units	Format	Range	Increment	Maximum Character

Text	ASCII	30 Characters

SPT **Sewerage Pipe Type**

Type of a sewerage pipe

SPT	1	Trunk
SPT	2	Reticulation
SPT	3	Lateral Connection
SPT	4	Forcemain

SRC Slope Drain Category

SRC	1	Toe drain
SRC	2	Berm drain
SRC	3	Inceptor drain
SRC	4	Bench drain

SRG Sedimentary Rock Group

Identifies the group of sedimentary rocks

SRG	1	Argillaceous
SRG	2	Arenaceous
SRG	3	Rudaceous
SRG	4	Calcareous
SRG	5	Siliceous
SRG	6	Carbonaceous
SRG	7	Evaporites

SRT **Sedimentary Rock Type**

ARGILLACEOUS

SRT	101	Mudstone
SRT	102	Shale
SRT	103	Siltstone
SRT	104	Claystone

ARENACEOUS

SRT	201	Sandstone
SRT	202	Graywacke

RUDACEOUS

SRT	301	Conglomerate
SRT	302	Sedimentary breccias

CALCAREOUS
SRT 401 Limestone
SRT 402 Dolomite

SILICEOUS
SRT 501 Chert

CARBONACEOUS
SRT 601 Coal

EVAPORITES
SRT 701 Borates
SRT 702 Carbonates
SRT 703 Halides
SRT 704 Nitrates
SRT 705 Sulphates

SSC Substation Category

Category of a substation

SSC 1 ~~Primary~~ **Main Intake Substation (PMU)**
SSC 2 ~~Primary~~ **Main Distribution Substation (PPU)**
SSC 3 ~~Secondary PE~~ **Main Switching Station (SSU)**
SSC 4 ~~Indoor Room~~ **Distribution Substation (PCE)**

SSG Soil Taxonomy Subgroup

USDA Soil Taxonomy Subgroup

SSG 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text	ASCII			24 Characters

SSL Soil Salinity

Measurement of the quantity of mineral salts found in a soil..

SSL 1 Very low (>0.5 - 1 dS/m)
SSL 2 Low (>1 - 2 dS/m)
SSL 3 Moderate (>2 - 4 dS/m)
SSL 4 High (>4 dS/m)

SST Substation Type

Type of a Substation

SST	1	Indoor
SST	2	Outdoor
SST	3	Pole Mounted
SST	4	Underground
SST	5	Indoor & Outdoor
SST	999	Others

STA Status

Operational status of a feature ~~such as railway and road~~

STA	1	In Operation
STA	2	To be Constructed
STA	3	Under Construction
STA	4	Abandon

STC Soil Textural Class

Textural classes refers to the fine-earth fraction that reflect the relative proportions of clay (fraction less than 2 microns), silt(2 - 50 microns) and sand (50 - 2,000 microns) in the soil.

STC	H	Heavy clay
STC	C	Clay, Sandy Clay
STC	Cf	Fine sandy clay
STC	Cm	Medium sandy clay
STC	Cc	Coarse sandy clay
STC	T	Silty clay
STC	M	Sandy Clay Loam
STC	Mf	Fine Sandy Clay Loam
STC	Mm	Medium Sandy Clay Loam
STC	Mc	Coarse Sandy Clay Loam
STC	O	Loam
STC	L	Clay Loam
STC	I	Silty clay loam, Silt loam, Silt
STC	A	Sandy loam
STC	Af	Fine sandy loam
STC	Ac	Coarse sandy loam
STC	S	Loamy sand, Sand
STC	Sf	Fine sand
STC	Sc	Coarse sand
STC	fS	Fine loamy sand
STC	cS	Coarse loamy sand
STC	Oi	Fibric soil material
STC	Oe	Hemic soil material
STC	Oa	Sapric soil material

STE Settlement Type

Type of settlement

STE	1	City
STE	2	Town
STE	3	Pekan
STE	4	Kampung

STH Thickness of Pedological features

Thickness of hard rocks or indurated gravel layers

STH	0	None
STH	1	< 25 cm
STH	2	> 25 cm

STL Soil Terrain Class

Thickness of organic layer to the underlying soil materials

STL	C1	Flat (0 – 2 degree)
STL	C2	Undulating 2 - 6
STL	C3	Rolling 6 - 12
STL	C4	Hilly 12 - 20
STL	C5	Very hilly 20 - 25
STL	C6	Steep 25 - 30
STL	C7	Very steep >30

STO Thickness of Organic Layer

Thickness of organic layer to the underlying soil materials

STO	1	0 - 25 cm	(Mineral soil)
STO	2	25 - 50 cm	(Mineral soil)
STO	3	50 - 75 cm	(Shallow organic soil)
STO	4	75 - 100 cm	(Shallow organic soil)
STO	5	100 - 300 cm	(Moderately deep organic soil)
STO	6	>300 cm	(Deep organic soil)

STP Sewerage Treatment Plant Category

Category of a sewerage treatment plant

STP	1	Covered
STP	2	Uncovered

STR **Strike**

Direction or trend taken by a structural surface or line with respect to north in clockwise direction

STR 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Degree	Floating			

STM **Soil Temperature Regime**

Soil Temperature Regime

STM 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text	ASCII			30 Characters

STS **Capital Status**

Status of Settlement

STS	1	Nation Capital
STS	2	State Capital
STS	3	Division Capital
STS	4	District/Jajahan Capital
STS	5	Sub District Capital

STT **Sewerage Treatment Plant Type**

Type of a sewerage treatment plant

STT	1	Communal Septic Tank
STT	2	Omhoff Tank
STT	3	Oxidation Ponds
STT	4	Bio Drum
STT	5	Bio Filter
STT	6	Bio Soil
STT	7	Trickling Filter
STT	8	Rotating Biological Contact
STT	9	Acty Bio
STT	10	Aerated Lagoon
STT	11	Activated Sludge
STT	12	Extended Aeration
STT	13	Loyal Extended Aeration
STT	14	High Kleen
STT	15	Oxidation Ditch
STT	16	Sewerage Aeration Treatment System
STT	17	Sequential Batch Reactor
STT	18	Upflow Aerobic Sludge Blanket

STY Stockpile Type

Type of a stockpile

STY	1	Mining stockpile
STY	2	Quarry stockpile

SUS Status of Survey

The status of survey for a land parcel or lot

SUS	1	Survey completed
SUS	2	Survey not yet completed

SUT Survey Point Type

Type of a survey point on the ground of known position

SUT	1	Tellurometer Traverse Point
SUT	2	Bearing Tellurometer Distance Point
SUT	3	Photo Control Point
SUT	4	Reference Secondary Point
SUT	5	Standard Traverse Point
SUT	6	Reference Tellurometer Transit Point
SUT	7	Reference Standard Traverse Point
SUT	8	Tertiary Point
SUT	9	Cadastral Boundary Point

SVM Small VMS Type

Type of small VMS

SVM 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII			20 Characters

SVP Survey Phase

Identifies the phase of a survey

SVP	1	Reconnaissance
SVP	2	Follow-up
SVP	3	Detailed

SWT Swamp Type

Type of a swamp

SWT	1	Tidal
SWT	2	Non Tidal

SZT Supply Zone Type

Type of a supply zone

SZT	1	Demand Area
SZT	2	Demand Center

TAT Tank Type

Type of a tank

TAT	1	Ground Tank
TAT	2	Tower Tank

TAU Tank Usage

Identifies the usage of a tank

TAU	1	Water
TAU	2	Petroleum

TBE Type of Berm

TBE	1	Cutting Area
TBE	2	Filling Area

TBT Trap Boom Types

The different types of booms

TBT	1	Long Boom
TBT	2	Trash Screen
TBT	3	Trash Rake

TCC Track Category

Category of a travel path

TCC	1	Motorable
TCC	2	Unmotorable

TCL Type of Cycle lane

TCL	1	Exclusive – Segregated motorcycle path separated by a physical barrier.
TCL	2	Non Exclusive – Dedicated motorcycle lane separated from traffic by lane marking.

TCO Telecommunication Operators

Name of Telecomunnication Service providers

TCO	1	Telekom Malaysia
TCO	2	Time Telekom
TCO	3	CELCOM
TCO	4	MAXIS
TCO	5	DIGI
TCO	6	U MOBILE
TCO	999	Others

TCT Track Type

Type of a travel path

TCT	1	Recreational
TCT	2	Logging
TCT	3	Cycle

TDS Total Dissolved Solid

Determine range of total dissolved solid content in a tube well

TDS	1	< 1,500 mg/l
TDS	2	1,500 - 5,000 mg/l
TDS	3	5,000 - 10,000 mg/l
TDS	4	> 10,000 mg/l

TEX Texture

~~Identifies the texture of a silt, sand, gravel, colluvium and clay features~~
Identifies the texture of a surficial deposit

TEX	1	Clayey
TEX	2	Silty
TEX	3	Sandy
TEX	4	Gravelly

TJC Road Junction

Type of Road Junction

JCT	1	T-Junction
JCT	2	Cross Junction
JCT	3	Staggered
JCT	999	Others

TLA Traffic Light Aspect
Type of traffic light aspect

TTA	1	LED (18W)
TTA	2	Halogen (50W)

TLC **Traffic Light Cable**

Type of traffic light cable

TLC	1	Multi Core
TLC	2	Armoured

TLN **Type of Lane**

Identify the type of lanes

TLN	1	Fast Lane
TLN	2	Middle Lane
TLN	3	Slow Lane
TLN	4	Emergency Lane

TLP **Traffic Light Pole**

Type of Traffic Light Pole

TLP	1	Standard
TLP	2	Overhead

TLQ **Traffic Light Quantity**

Quantity of Traffic Light Pole

TLQ	0	Actual Value

Units	Format	Range	Increment	Maximum Character
	Real Number			24 Characters

TNU **Tunnel Usage**

Usage of a tunnel

TNU	1	Railway
TNU	2	Road
TNU	3	Flood Mitigation
TNU	4	Multi Modal

TOL **Toll**

Identifies whether the use of a highway/road is free or charged

TOL	1	Toll
TOL	2	Free

TOP **Top Mark**

Type of Top Mark

TOP	1	Cone
TOP	2	Sphere
TOP	3	Cylinder
TOP	4	Board
TOP	5	X-Shape

TOS Toll Operating System

Type of TOS

TOS	1	Open Toll System
TOS	2	Close Toll System

TQM Air Quality Monitoring Tunnel

TQM	1	Ground Level
TQM	2	Under Ground

TRA Traffic Sign Type

Type of a traffic sign

TRA	1	Standard Road Sign
TRA	2	Variable Message Sign

TRM Type of road marking

TRM	1	centre line
TRM	2	lane line
TRM	3	edge line
TRM	4	no passing zone line
TRM	5	turn line
TRM	6	stop line
TRM	7	give way line
TRM	8	pedestrian crossing markings
TRM	9	words and symbol messages
TRM	10	arrows
TRM	11	painted islands and chevron marking
TRM	12	chevron separator for motorcycle lane
TRM	13	yellow boxes
TRM	14	kerb marking
TRM	15	transverse yellow bars

TRT Trench Type

Type of Trench

TRT	1	Covered
TRT	2	Uncovered

TRU Trench Usage

Usage of Trench

TRU	1	Utility
TRU	999	Others

TSB Traffic Safety Barriers

Possible type of traffic safety barriers

TSB	1	Guardrail
TSB	2	Wire rope
TBB	3	New Jersey barrier
TSB	4	Crash Cushion

TSD Road Traffic Safety Devices Type

Possible type of road traffic safety devices

TSD	1	Flexible post/ safety bollard
TSD	2	Raised Pavement Marker (Tiger eye, Cat Eye)
TSD	3	Delineator post
TSD	4	Antiglare fence
TSD	5	Road stud
TSD	6	Amber light
TSD	7	Interlocking Paver

TSL Street Light Type

Type of Street Light

TSL	1	Fauna
TSL	2	Flora
TSL	3	Obor
TSL	4	Wau Bulan
TSL	999	Others

TST Trigonometry Station Type

Type of a trigonometric station

TST	1	Geodetic Station
TST	2	Primary Station
TST	3	Secondary Station
TST	4	Reference Secondary Point
TST	5	Tertiary Station
TST	6	Traverse Trigonometry Station
TST	7	Brunei Trigonometry Station

TYP **Type of Slope Proctection**

TYP 1 Vegetation
TYP 2 Retaining Wall
TYP 3 Gabion
TYP 4 Cement Grouting

ULT **Underpass Lighting Type**

Type of Underpass Lighting

ULT 1 Brick Light
ULT 2 Spot Light
ULT 3 Wall Light
ULT 4 Flood Light
ULT 999 Others

VEP **Vegetation Yield Production**

A value representing the yield production of vegetation

VEP 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

VGS **Vegetation Status**

A value representing the status of vegetation

VGS 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

VGT **Vegetation Grass Type**

Type of vegetation grass

VGT 1 Pasture
VGT 2 Grass Nursery
VGT 3 Grassland

VIT **Volcanic Intermediate Rock Type**

Type of a volcanic intermediate rock

VIT 1 Andesite
VIT 2 Trachyte
VIT 3 Dacite

VLT **Voltage**

A value representing the voltage of a power line

VLT 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Volts	Short Integer			

VMS **Variable Message Sign Structure**

Type of Variable Message Sign Structure

VMS 1 Cantilever
VMS 2 Unipole
VMS 3 Gantry
VMS 999 Others

VMT **Valve Material Type**

Type of valve material

VMT 1 Polyathelene (exposed)
VMT 2 Steel (enclosed in chamber)

VPT **Vegetation Paddy Type**

Type of Paddy

VPT 1 Wet Paddy
VPT 2 Dry Paddy

VTC **Vertical Clearance**

A value representing the minimum height that is passable to traffic

VTC 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Meter	Short Integer			

VVY **Vegetation Variety**

Any variety to identify a feature

VVY 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			

VWM **Vegetation Water Management**

Type of vegetation water management

VWM 1 Irrigated
VWM 2 Rainfed

VYP **Vegetation Year Planted**

A value representing the planted year of vegetation

VYP 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Text String	ASCII Text			24 Characters

WAM **Water Level Mark**

The line along a coast that marks a high or low tide

WAM 1 High Water Mark
WAM 2 Low Water Mark

WAT **Waste Type**

Type of a waste

WAT 1 Chemical
WAT 2 Hazardous
WAT 3 Clinical
WAT 4 Radioactive
WAT 5 Solid

WID **Width**

Width of a feature, in meters

WID 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Meter	Floating			

WIT **Water Pipe Type**

Type of a water pipe

WIT	1	Trunk
WIT	2	Distribution
WIT	3	Reticulation
WIT	4	Communication
WIT	5	Raw

WKC **Wreck Category**

Category of a wreck

WKC	1	Swept
WKC	2	Unswept

WKD **Wreck Depth**

Identifies whether the depth of a wreck is known or unknown

WKD	1	Depth Known
WKD	2	Depth Unknown

WLN **Width of Lane**

Width of a lane, in meters

WID 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Meter	Real Number			24 Characters

WLT **Well Type**

Type of a well

WLT	1	Masonry
WLT	2	Earth
WLT	3	Tube

WOS Work Status

Status of a work

WOS	1	Ongoing
WOS	2	Completed

WPC Water Pump Category

Category of a water pump

WPC	1	Treatment
WPC	2	Raw

WPM Water Pipe Material

Type of material used for water pipes

WPM	1	Acrylonitrile Butadiene Styrene (ABS)
WPM	2	Asbestos Cement (AC)
WPM	3	Cast Iron
WPM	4	Copper
WPM	5	Ductile Iron (DI)
WPM	6	Galvanized Iron (GI)
WPM	7	High Density Polyethylene (HDPE)
WPM	8	Mild Steel (MS)
WPM	9	Poly Steel
WPM	10	Poly Vinyl Chloride (PVC)
WPM	11	Polypropylene Random (PPR)
WPM	12	Stainless Steel
WPM	13	Unplasticized Poly Vinyl Chloride (UPVC)
WPM	999	Others

WPT Water Pump Type

Type of a water pump

WPT	1	~~Inlet~~ End Suction
WPT	2	~~Outlet~~ Split Casing
WPT	3	Submersible
WPT	999	Others

WRN Road Warning Sign

WRN	Wd.1	Uneven Road (Jalan Tidak Rata)
WRN	Wd.2	Sharp Meander (Liku Tajam)
WRN	Wd.3	Cross Road (Simpang Empat)
WRN	Wd.4	Fenced Railroad Crossing (Lintasan Keretapi Berpagar)
WRN	Wd.5	Fenced Automatic Railroad Crossing (Lintasan Keretapi Berpagar Automatik)
WRN	Wd.6 & Wd.7	Railroad Crossing Without Fence (Lintasan Keretapi Tanpa Pagar)
WRN	Wd.8	Slope Decline (Cerun Menurun)
WRN	Wd.9	Slope Climbing (Cerun Mendaki)
WRN	Wd.10a	Right Corner (Liku Kanan)
WRN	Wd.10b	Left Corner (Liku Kiri)
WRN	Wd.11	Winding Road (Jalan Bengkang Bengkok)
WRN	Wd.12	Soft Shoulder (Bahu Jalan Lembut)
WRN	Wd.13	Slippery When Wet (Jalan Licin)
WRN	Wd.14	Pedestrian Crossing (Lintasan Pejalan Kaki)
WRN	Wd.15	Children Crossing Area (Kawasan Kanak-Kanak Melintas)
WRN	Wd.16	Caution (Berhati-Hati)
WRN	Wd.17	Towing Zone (Zon Tunda)
WRN	Wd.18	Stop Sign Ahead (Papan Tanda Berhenti Di Hadapan)
WRN	Wd.19	Give Way Sign Ahead (Papan Tanda Beri Laluan Di Hadapan)
WRN	Wd.20	Narrow Passage Ahead (Laluan Sempit Di Hadapan)
WRN	Wd.21	Road Narrows On The Left Or Right (Jalan Semakin Sempit)
WRN	Wd.22	Traffic Signals Ahead (Lampu Isyarat Di Hadapan)
WRN	Wd.23	Obstruction Sign (Halangan Di Hadapan)
WRN	Wd.24	No Restriction (Tiada Halangan)
WRN	Wd.25	Staggered Junctions (Simpang Tak Serentak)
WRN	Wd.26	Staggered Junctions With One No-Entry Sign Is Used (Simpang Tak Serentang Dengan Satu Jalan Di Tutup)
WRN	Wd.27a	'T' Junction (Simpang Tiga)
WRN	Wd.27b	Right Junction (Simpang Kanan)
WRN	Wd.27c	Left Junction (Simpang Kiri)
WRN	Wd.27d	Right/Straight Optional Lane (Jalan Menyimpang Di Sebelah Kanan)
WRN	Wd.27e	Left/Straight Optional Lane (Jalan Menyimpang Di Sebelah Kiri)
WRN	Wd.28a	Merging Road On The Right (Jalan Kecil Bercantum Di Sebelah Kanan)
WRN	Wd.28b	Merging Road On The Left (Jalan Kecil Bercantum Di Sebelah Kiri)
WRN	Wd.29	Stone Area / Landslide (Kawasan Batu / Tanah Runtuh)
WRN	Wd.30	Cattle Crossing Area (Kawasan Lembu Melintas)
WRN	Wd.31	Circular Intersection (Bulatan Di Hadapan)
WRN	Wd.32a	Lane Climbing (Lorong Mendaki)
WRN	Wd.32b	Lane Decline (Lorong Menurun)
WRN	Wd.33	Blind People Crossing (Orang Buta Melintas)
WRN	Wd.34	Disabled Person Path (Lintasan Orang Cacat)
WRN	Wd.35	Narrow Bridge (Jambatan Sempit)
WRN	Wd.36	Diverging Traffic (Berpisah Arah)
WRN	Wd.37	Two-Way Traffic (Jalan Dua Hala)
WRN	Wd.38a	Divided Highway Ends (Jalan Kembar Tamat)
WRN	Wd.38b	Divided Highway (Symbol) (Jalan Kembar Di Hadapan)
WRN	Wd.39a	Chevron (Right Way) (Tanda Arah Selekoh Ke Kanan)
WRN	Wd.39b	Chevron (Left Way) (Tanda Arah Selekoh Ke Kiri)
WRN	Wd.40	Bridge Deliberate Station (Stesen Jambatan Timbang)
WRN	Wd.41	Wild Animal Crossing Area (Kawasan Binatang Liar Melintas)
WRN	Wd.42	Y-Intersection (Simpang Jalan Ke Kiri Dan Ke Kanan)
WRN	Wd.45	Playground (Padang Permainan)
WRN	Wd.49	Speed Hump (Bonggol Dihadapan)
WRN	Wd. 51	Speed Limit Zone (Peringatan Di Zon Had Laju)
WRN	Wd. 52	Speed Limit Zone Ahead (Zon Had Laju Di Hadapan)

WRU Water Route Usage

Usage of a water route

WRU	1	Ferry
WRU	2	Boat
WRU	3	Ship

WTU Tube Well Use

Determine the usage of a tube well

WTU	1	Agriculture
WTU	2	Domestic
WTU	3	Industrial
WTU	4	Natural mineral water/bottled

WTY Well Type

Type of a well

WTY	1	Pump
WTY	2	Test
WTY	3	Production
WTY	4	Monitoring

WVT Water Valve Type

Type of a water valve

WVT	1	Foot Valve
WVT	2	Air Valve
WVT	3	Altitude Valve
WVT	4	Sluice Valve
WVT	5	Pressure Reducing Valve
WVT	6	Non Return Valve
WVT	7	Butterfly Valve
WVT	8	Scour Valve
WVT	999	Others

YER Year

Identifies the year of data

YER	0	Actual Value

Units	Format	Range	Increment	Maximum Character
Year	yyyy			

ZEL Z Ellipsoidal

A value representing height above an ellipsoid

ZEL 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Meter	Floating			24 Characters

ZGP Z Global Positioning System

A value representing height obtained from GPS observations

ZGP 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Meter	Floating			

ZOC Zoning Category

Category of zoning

ZOC	1	Residential
ZOC	2	Commercial
ZOC	3	Industrial

ZOR Z Orthometric

A value representing vertical distance (height) of a feature measured the from mean sea level

ZOR 0 Actual Value

Units	Format	Range	Increment	Maximum Character
Meters	Floating			

will be decided by the committee of TC2

Acknowledgements

Dr Abdul Kadir Taib (Chairman)	Department of Survey and Mapping Malaysia
YM Raja Faridah Raja Sirajuddin (Secretary) Ir	SIRIM Berhad
Masripan Salleh	C-Tel Technologies Sdn Bhd
Encik Seet Chin Peng	Minerals and Geoscience Department
Encik Hasan Jamil/ Encik Teng Chee Boo	Department of Survey and Mapping Malaysia
Encik Daniel Boey	ESRI South Asia Sdn Bhd
Dr Noordin Ahmad	GeoInfo Services Sdn Bhd
Encik Mansor Abd Rahaman	Malaysian Centre for Remote Sensing
Dr Muhamad Radzali Mispan	Malaysian Agriculture Research and Development Institute
Puan Fuziah Hj Abu Hanifah/ Encik Mohamad Kamali Adimin	Malaysian Centre for Geospatial Data Infrastructure
Tuan Haji Abu Harith Shamsuddin/ Puan Umi Kalthom Ahmad/ Encik Muhamad Rahimi Abdullah	Public Works Department
Prof Madya Dr Wan Muhammad Aminuddin/ Prof Madya Dr Ruslan Rainis	Universiti Sains Malaysia
Encik Mohamad Ghazali Hashim	Universiti Teknologi Malaysia