Regional GIS Metadata Working Group Meeting Minutes – May 22, 2014

Regional GIS Metadata Working Group
Thursday, May 22, 2014
2:30 pm – 3:30 pm
SANDAG Conference Room 8B

Attendees:
John Hofmockel (SANDAG)
Louise Wedley (SanGIS)
Harry Johnson (SDSU)
Barbara Kent (Caltrans)
Martie Clemons (City of Carlsbad)
Pat Landrum (SANDAG)

Absent: Brad Lind (SanGIS), Scott Daescher (City of San Diego), Melanie Casey (County of San Diego)

Agenda

1. SanGIS Recommendations Spreadsheet
2. Metadata Handbook Status
3. Metadata Custom Stylesheet Status
4. Metadata Summary and Description Examples

Since we had several new attendees, we spent a few minutes explaining the contents of the ISO19139MetadataSummary spreadsheet (e.g. green highlights, required metadata elements, x-path contains the metadata XML tags). John suggested that "Citation Identifier" be removed as Required. This element may have been left over after removing the Citation Contacts elements. We'll confirm this at the next meeting. Louise will fix a few spreadsheet "typos" at her convenience.

Louise stated that the SanGIS Metadata Requirements document (i.e. Handbook) is drafted and is with Brad for review. We are still on schedule to have materials ready by June 30th.

John demonstrated his progress on creating a custom stylesheet for metadata viewing. See screen captures below. (Note: A custom stylesheet is actually several files including .cfg, .xsl, and .xslt.) Figure 1 displays the out-of-the box **Item Description** Metadata Stylesheet. Figure 2 displays out-of-the-box **ISO 19139 Metadata** with both the Item Description and ArcGIS Metadata. Note: All thirteen sections of the ArcGIS Metadata come out-of-the-box expanded (i.e. "show", not desirable). John learned how to change text colors, "hide/show", and hide ArcGIS Metadata (Figure 3). John experimented with a simple display (Figure 4). The missing Feature Type is a coded variable (e.g. "point" is code 004), so it would take some more advanced programming. Only the date portion of date/time content should be displayed. Figure 5 is his latest custom stylesheet. The default Item Description stylesheet was modified removing content duplicated in ArcGIS Metadata. Also, he added important content **Date of the Data**, **Publication Date**, and **Number of Features**. Next steps include investigation of Publication stylesheets so we can replace the hodgepodge PDfs on the Downloads page.

We reviewed 14 examples of metadata. The **Summary (Purpose)** and **Description (Abstract)** have been confusing. Louise simplified the problem: For **Summary** we should answer the question "**why?"** and for **Description** we should answer the question **"what?"**. If nothing else, the examples demonstrate that we have a common problem of inconsistency. John suggested that Summary be short (one, two, or three

sentences) and Description longer (i.e. multiple paragraphs). See below for the 14 examples (from SANDAG, Carlsbad, Caltrans, Chula Vista, SDSU, City of San Diego, and SanGIS). We will discuss further to see how good examples might be incorporated into the SanGIS Metadata Requirements document.

Next Metadata Working Group meeting TBD (first or second week of June).

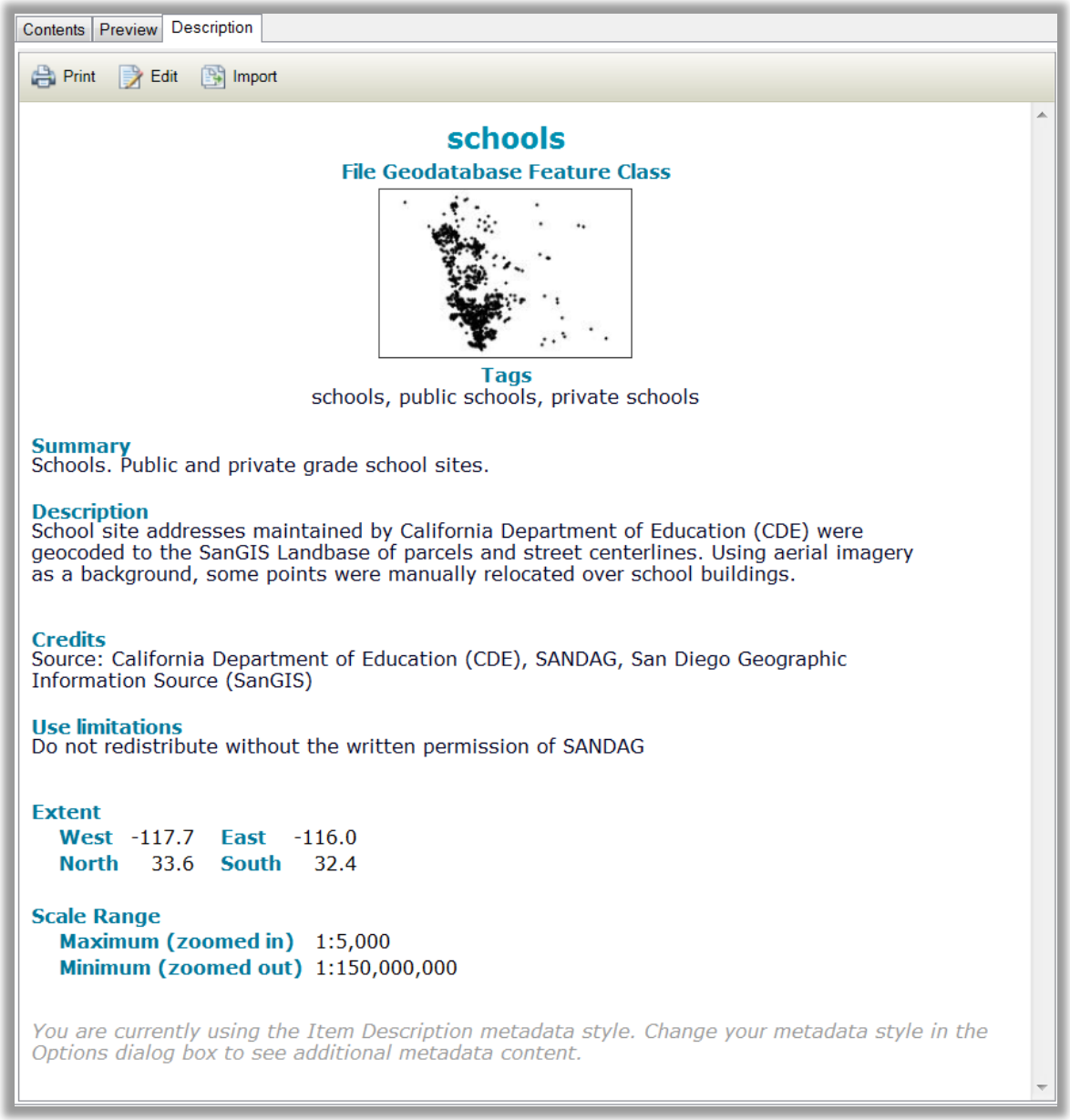

Figure 1 Item Description out-of-the-box

schools

File Geodatabase Feature Class

Tags
schools, public schools, private schools

Summary
Schools. Public and private grade school sites.

Description
School site addresses maintained by California Department of Education (CDE) were geocoded to the SanGIS Landbase of parcels and street centerlines. Using aerial imagery as a background, some points were manually relocated over school buildings.

Credits
Source: California Department of Education (CDE), SANDAG, San Diego Geographic Information Source (SanGIS)

Use limitations
Do not redistribute without the written permission of SANDAG

Extent

West -117.7 East -116.0
North 33.6 South 32.4

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ▶

Topics and Keywords ▶

PLACE KEYWORDS San Diego, San Diego region, San Diego County

THEME KEYWORDS schools, public schools, private schools

Hide Topics and Keywords ▲

Citation ▶

* TITLE schools
CREATION DATE 2013-10-31 00:00:00
PUBLICATION DATE 2013-12-01 00:00:00

PRESENTATION FORMATS

RESOURCE IDENTIFIER
VALUE XXXXX

Hide Citation ▲

Resource Details ▶

DATASET LANGUAGE * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE * Vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

CREDITS
Source: California Department of Education (CDE), SANDAG, San Diego Geographic Information Source (SanGIS)

ARCGIS ITEM PROPERTIES
* NAME schools
* SIZE 0.029
* LOCATION file://\\sandag.org\home\shared\TEMP\jho\metadataTest\schoolData.gdb
* ACCESS PROTOCOL Local Area Network

Hide Resource Details ▲

Figure 2 ISO 19139 Metadata Implementation Specification out-of-the-box

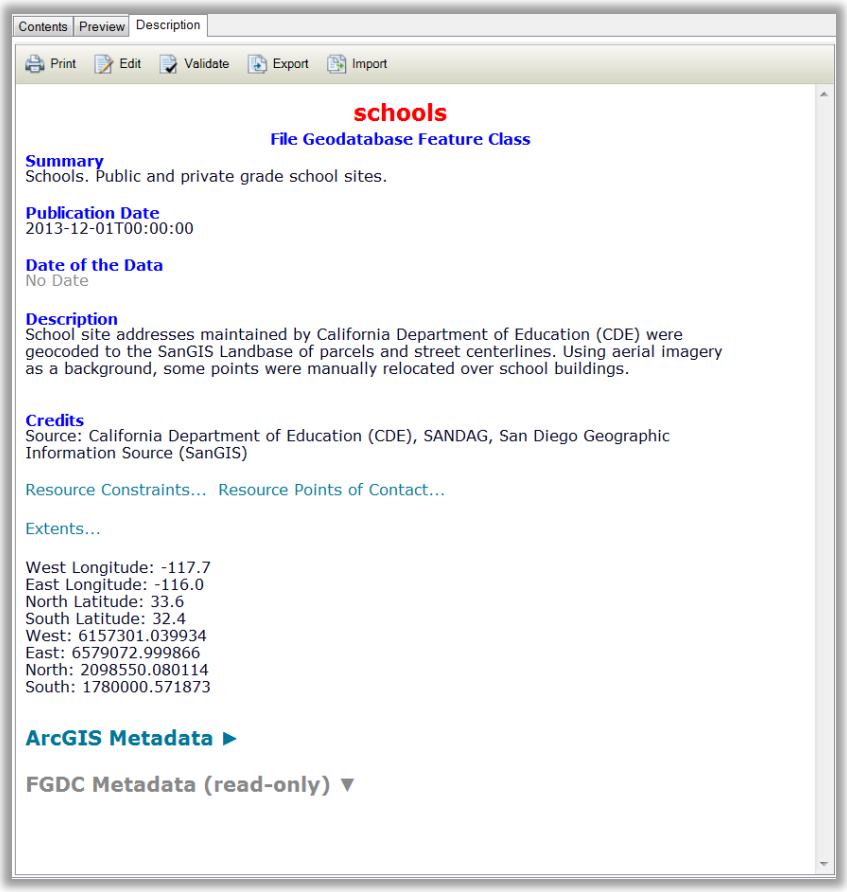

Figure 3 Custom Stylesheet with colored text and hidden ArcGIS Metadata

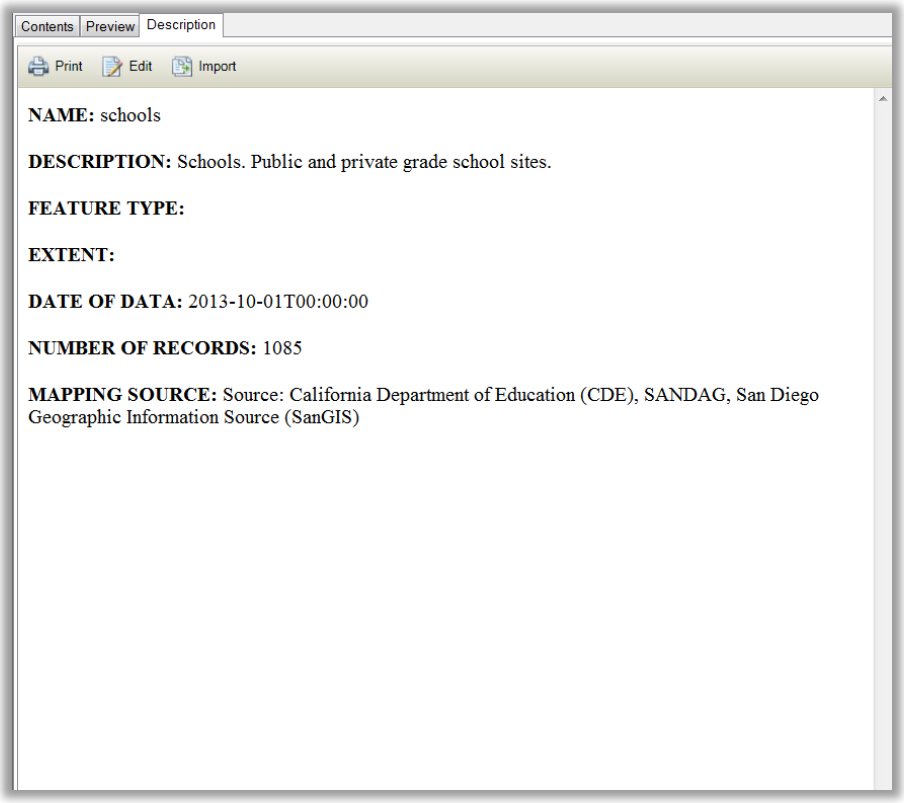

Figure 4 Custom stylesheet simple display

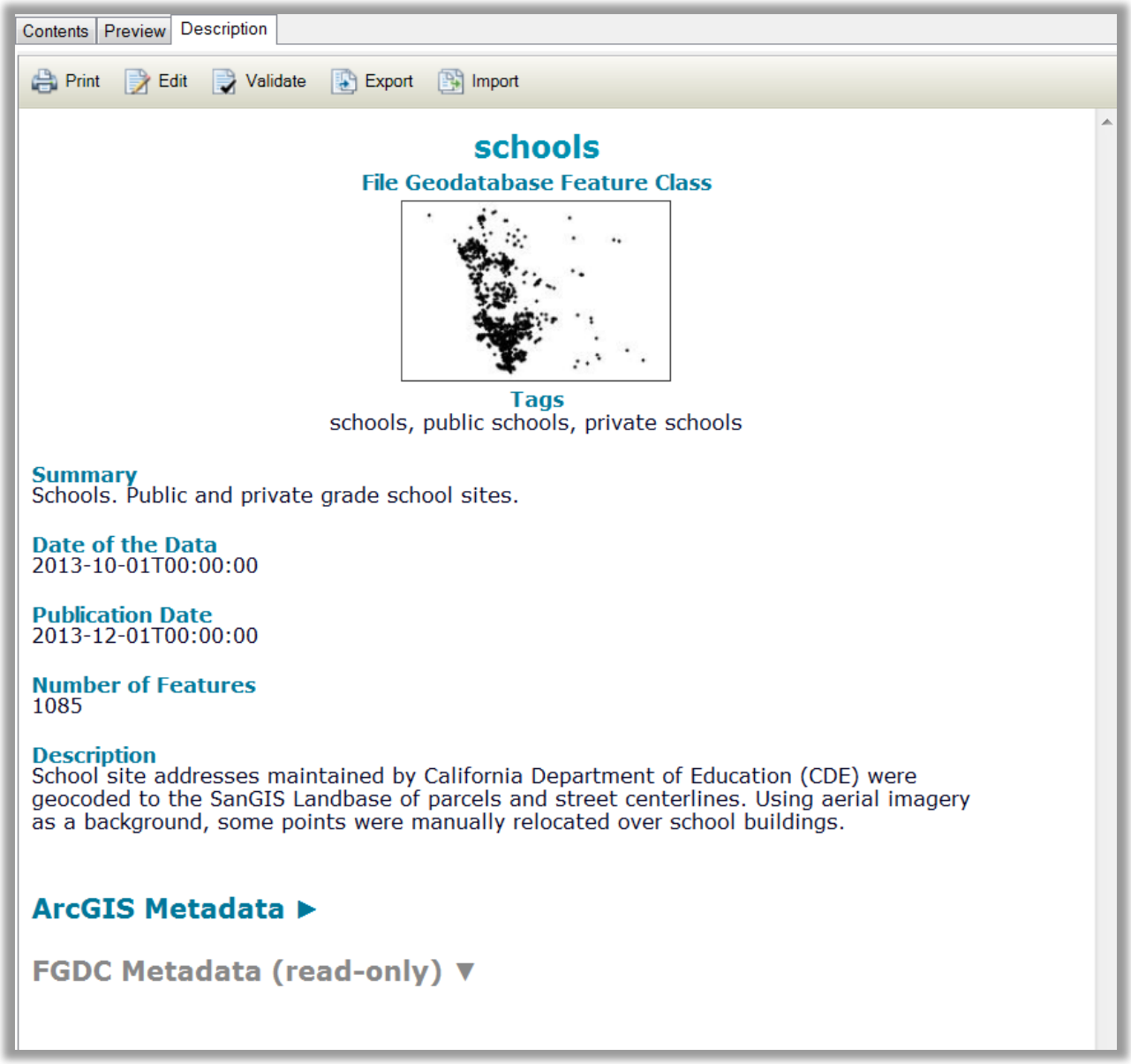

Figure 5 Modified Item Description with collapsed ArcGIS Metadata

Metadata Summary and Description Examples

ArcCatalog Metadata Editor

Summary (Purpose)
A summary of the intentions with which the resource was developed. In metadata standards this information is known as the purpose.

Description (Abstract)
A brief narrative summary of the resource's content. In metadata standards this information is known as the abstract.

schools

Summary
Schools. Public and private grade school sites.

Description
School site addresses maintained by California Department of Education (CDE) were geocoded to the SanGIS Landbase of parcels and street centerlines. Using aerial imagery as a background, some points were manually relocated over school buildings.

Credits
Source: California Department of Education (CDE), SANDAG, San Diego Geographic Information Source (SanGIS)

Use limitations
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LANDUSE_CURRENT

Summary
SANDAG's Land Layers are created for use in the Regional Growth Forecast to distribute projected growth for the San Diego region to suitable subareas. These land layers include existing land use, planned land use, land ownership, land available for development, and lands available for redevelopment and infill. The land layers inventory is updated when new information is available.

Many of these data sets are built from the San Diego Geographic Information Source (SanGIS) landbase. The land use information has been updated continuously since 2000 using aerial photography, the County Assessor Master Property Records file, and other ancillary information. The land use information was reviewed by each of the local jurisdictions and the County of San Diego to ensure its accuracy. Although this inventory contains more categorical detail and has better positional accuracy than previous land use inventories, users should be aware that this data may be too generalized for some local planning projects.

Since each General Plan/Community Plan Land Use Elements have their own individualized way of categorizing their future land use designations, an aggregate planned land use code was devised (PLU). Each General Plan/Community Plan land use designation was cross-walked to a SANDAG PLU code.

Adjacent parcel polygons with the same land use have been aggregated (dissolved) into a single feature.

Description
Existing Land Use

Credits
SANDAG Mapping Source: SANDAG, County Assessor's Master Records file, Cleveland National Forest, Bureau of Land Management (BLM), State Parks, other public agency contacts. SanGIS landbase (ie: parcels) and local agency review.

Use limitations
There are no access and use limitations for this item.

sw_FlowLineReach

Summary

This data set is intended show flowline reaches that represent the surface water drainage system within the City of Carlsbad. It represents the best available data for the surface water drainage network within the City of Carlsbad. With the exception of the segments coded as "Y" (yes) for "NamedRW" in the attribute table, it does not classify any flowline as water of the State or Water of the US. It is used City of Carlsbad's Storm Water Protection Program staff tasked with implementing the Municipal Storm Water Permit. For a complete listing or determination of Waters of the US or Waters of the State please refer to the US EPA or California Water Resources Control Board respectively.

Description

This dataset was created using existing Carlsbad GIS data and the National Hydrography Dataset (NHD.) published by the United States Geographical Survey (http://nhd.usgs.gov/). Description from USGS: The National Hydrography Dataset (NHD) and Watershed Boundary Dataset (WBD) are used to portray surface water on The National Map. The NHD represents the drainage network with features such as rivers, streams, canals, lakes, ponds, coastline, dams, and streamgages. The WBD represents drainage basins as enclosed areas in eight different size categories. Both datasets represent the real world at a nominal scale of 1:24,000-scale, which means that one inch of The National Map data equals 2,000 feet on the ground. To maintain mapping clarity not all water features are represented and those that are use a moderate level of detail.Edits were made to the NHD layer to correct the line features for both path and reach to account for developed infrastructure (e.g. box culvert under roadway) or more detailed information. Aerial photography (4 inch resolution), MS4 infrastructure, two foot contour lines, and a digital elevation model (DEM) were factored in to get a more accurate representation of the actual drainage network within the City of Carlsbad. Lines were generally removed where they were shown to flow through one of the three coastal lagoons, and outside the city boundary.

sw_NPDESHydromodificationExemption

Summary

The purpose of this layer is to show areas which are exempt from hydromodification runoff requirements, per the National Pollutant Discharge Elimination System (NPDES) permit program.

Description

This layer was created from a CAD file received from Chang Consultants after revisions made by Glen Van Peski and Jeremy Riddle. There are no attributes included because the layer is meant to be a simple representation of the areas which are exempt from hydromodification runoff requirements.

StateRoads

Summary

This dataset was created for smaller scale general mapping purposes only. It is a combination of SANDAG's Major Roads and IMPTCOV (Imperial County transportation model linework). It displays existing and future interstates and state routes in Caltrans District 11.

Description

This is a dataset of state routes and interstates in Caltrans District 11, and was created for smaller scale general mapping purposes only. This dataset should not be used when engineering or survey grade data are needed.

Adopt-A-Highway

Summary

The Adopt-A-Highway data set was originally created by processing a query of the statewide Adopt-A-Highway database through the Postmile Toolbar linear referencing system. It includes information on the status of adoption, type of adoption, and adopter for roadway segments within District 11. Updates to the data are provided to District 11 GIS from District 11 Adopt-A-Highway Coordinator on a monthly basis, or as needed.

Description

This data set displays the roadway segment adoption status (i.e. Adopted, Available, Not Adoptable) for the Caltrans District 11 Adopt-A-Highway program.

It is for general reference only.

CityLimit

Summary
Shows the official boundary of the City of Chula Vista,

Description
Chula Vista city limits shows the extent of the City.

Credits
City of Chula Vista

Use limitations
This metadata is intended for informational purposes only. The City of Chula Vista makes no warranty, representations, or guarantee as to the content, or accuracy of the spatial data or database information provided herein. The City shall assume no liability for any errors, omissions, or inaccuracies in the information provided.

Neighborhood

Summary
Initially used to track development projects.

Description
Neighborhoods of Chula Vista

Credits
City of Chula Vista

Use limitations
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SUPPLEMENTAL INFORMATION

A Neighborhood is the smallest settlement unit. In Chula Vista the term is generally used to describe a geographic area of residential development but may also be a neighborhood of mostly commercial, employment or institutional uses. Department contact: Carlos Fernandez

Tijuana River Watershed Digital Geomorphology File

Summary

The Tijuana River Watershed GIS Database project provides a fully integrated cross border geographic information system. One of the layers in the dataset is a digital geomorphology layer. This layer provides information on the landscape formations in the watershed.

Description

The Tijuana River Watershed digital geomorpholgy file was created as part of the Tijuana River Watershed GIS database project. This digital layer consists of polygons of landscape descriptions in the Tijuana River Watershed.

Credits

There are no credits for this item.

Use limitations

Not for Legal Use.

JHO Note: Layer name is “geomorphology”

Tijuana River Watershed Digital Vegetation File

Summary

The Tijuana River Watershed GIS Database project provides a fully integrated cross border geographic information system. The vegetation coverage is one of the layers in the data base. It includes information on the general vegetation classes in the watershed. A modified Holland classification was used to identify the vegetation groups. Riparian areas are mapped at a resolution of .5 acre, while non-riparian areas have a 5 acre minimum mapping unit.

Description

The vegetation coverage was created as part of the Tijuana River Watershed GIS database project. It includes information on the general vegetation classes in the watershed. A modified Holland classification was used to identify the vegetation groups. Riparian areas are mapped at a resolution of .5 acre, while non-riparian areas have a 5 acre minimum mapping unit.

Credits

There are no credits for this item.

Use limitations

Not for legal use

JHO Note: Layer name is “vegetation”

street_signs

Summary
Point data was established to define street sign asset types and locations.

Description
In 2002, several interns were employed by the Department of Public Works to use Trimble GPS to validate legacy signs and attributes. This data was augmented with 2004 sign installation data and reconciled against the existing AM data. The initial effort focused on informational signage however compliance signage was also added as a requirement before the initial sweeps.

Use limitations
No limitations on usage.

epidemiological_zones

Summary
Polygon data defines zones for epidemiological risk assessment of waterborne disease outbreaks.

Description
Block range disease outbreak data by year collected from Department of Health and Human Services. Mortalities not included. Data consists of lab-verified results only and is not derived from coliform indicators or taxonomic indices.

Use limitations
Data should not be public facing and should only be used via approval of DHHS. Requests for authorization may be submitted at this super secret hyperlink.

Parcels

Summary
Data is generalized and created for use in regional projects.

Description
Parcels for the entire county Source: COGO: COGO is a computer program that is used to calculate coordinate geometry. It is used to solve the geometric problems encountered in civil engineering applications including: property boundary and right of way surveys highway and interchange design construction layout bridge geometry.

Credits
SanGIS

Use limitations
IMPORTANT
READ THESE TERMS CAREFULLY BEFORE USING THIS DIGITAL DATA!
Data Agreement and Disclaimer

This data is collected from various sources and will change over time without notice. In using the data, users should be aware that some of these data are generalized and not parcel based, and were created for use in regional projects. While SanGIS believes the data is accurate and properly functioning, SanGIS disclaims any responsibility for the accuracy or correctness of the data. This data is provided on an "AS IS", "AS AVAILABLE" and "WITH ALL FAULTS" basis. SanGIS makes no warranties, express or implied, including but not limited to any warranties of merchantability or fitness for a particular purpose, nor shall the distribution of this information constitute any warranty.

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MUNICIPAL_BOUNDARIES

Summary
Used as an overlay to locate and identify parcels that correspond to their specific jurisdiction

Description
A geographic representation of the municipal boundaries created from fund numbers which are provided by the County Auditor/Controller's Property Tax Services (PTS) Division.

Credits
County Assessor

Use limitations
Resolutions, legal descriptions, and recorded maps and documents are the final authority of any boundary disputes.