Geospatial Data Management Plan

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HOUSTON-GALVESTON AREA COUNCIL

Community & Environmental Planning Department

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Table of Contents

Introduction	. 1
Geospatial Services	. 1
Data Sharing	. 2
Geospatial Applications	. 2
Mapping and Cartographic Products	. 3
System Resources	. 3
System Architecture	. 3
Figure 1: H-GAC Geospatial System Architecture	. 4
Hardware	. 4
Software	. 4
Programming Languages	. 5
Data	. 5
Personnel	. 6
Training	. 6
Budget	. 6
Data Maintenance, Manipulation, and Use	. 7
Quality Assurance/Quality Control	. 7
Data Limitations	. 7
Data Development Protocol	. 7
Data Input	. 8
Data Dictionary	. 8
Figure 2: Elements of CSDGM Standards	. 9
Data Conversion	. 9
Coordinate Systems	. 9
Data Validation	10
Data Quality Control	10
Equipment Quality Control	10
Genealogy1	10
Migration/Transfer	10

Data Security & Access	10
Archives/Backup	11
Disaster Recovery	11
Appendices	12
Appendix 1 Data Source Information Sheet	12
Appendix 2 Data Log Sheet	13
Appendix 3 Hardware	14
FTP Server	14
Mapping Application Servers	14
Plotters, Printers and Scanners	14
Global Positioning System (GPS) Units	14
Fax Equipment	15
Appendix 4 Software	16
Office Productivity Software	16
Graphics and Desktop Publishing	16
Programming	16
Geographic Information Systems (GIS)	16
Data Management	16
Operating Systems	16
Appendix 5 Data List	17
H-GAC Spatial Data Warehouse (SDE) Datasets	17
C&E Non-Spatial Data	26
Appendix 6 Data Dictionary	27
Appendix 7 H-GAC GIS Data and Mapping Applications	30

Introduction

The Data Management Plan (The Plan) outlines the standard policies and procedures for data management within the Community and Environmental Planning (C&E) Department. The Plan covers the management of both tabular (non-geographic) and spatial (geographic) datasets. Its primary purpose is to ensure the efficient access and maintenance of these datasets within the C&E Geospatial/Geographic Information Systems (GIS) environment.

GIS technology provides a systematic means to capture, manipulate, analyze, store and display spatially referenced data. GIS supports a wide variety of applications ranging from site assessments, environmental planning, urban planning, and spatial analysis to support organizational strategies. In general, GIS supports the overall departmental goals of guiding regional planning, enhancing the quality of the region's natural environment, and public education through outreach programs. The C&E GIS team supports various programs within the C&E department through data development, spatial analysis, geospatial applications development, cartography in support of departmental goals.

The Plan is considered a dynamic working document which responds to changing technology, funding, staffing, and project requirements. Consequently, the Plan is reviewed on an annual basis and amended as necessary.

Geospatial Services

The following section explains the geospatial services provided by the H-GAC C&E GIS team as it relates to the sharing of data, development of geospatial applications, cartography, and underlying GIS resources. The C&E GIS team is responsible for the development of data and sharing of many publicly viable datasets, developing geospatial applications, cartography, and coordination of maintenance of underlying geospatial hardware and software for C&E.

The C&E GIS team maintains a centralized geospatial warehouse (C&E SDE), an online mapping platform for web-based geospatial applications (Mapping Application), and an FTP download site (Data Clearinghouse). The C&E SDE utilizes ESRI's ArcSDE software running on a Microsoft SQL Server RDBMS. The mapping application uses ESRI's ArcGIS.com & ArcGIS Server platform running on .NET. The Data Clearinghouse is an FTP server (h-gac.sharefile.com) that provides C&E with storage space where it can post publicly available datasets for downloading. The C&E SDE, Mapping Application, and Data Clearinghouse platforms are installed by the H-GAC Data Services department (Data Services), with Data Services maintaining only the lower-level technology components such as the physical hardware, software installation, and low-level server and RDBMS functions. All upgrades and maintenance are coordinated by the C&E GIS Manager. All geospatial content stored in the C&E SDE, the Data Clearinghouse, and Mapping Application, are the responsibility of the C&E GIS staff, which resides within the C&E Socio-Economic Modeling program. However,

Data Service department maintains some of the other GIS data such as transportation, 911 address, and workforce solutions, and stored in a separate SDE that everybody in H-GAC has access to them. A detailed schematic of the geospatial technical architecture and how the various systems are interconnected can be found in the *System Architecture* section below.

Data Sharing

The C&E SDE serves as the primary internal repository for geospatial data, metadata, and other information relevant to the activities and goals of the C&E department. All GIS users within C&E Socio-Economic Modeling program and users from other H-GAC departments are provided *Editor* access to data in the C&E SDE. All other users have only viewer access to data in the C&E SDE. H-GAC C&E staffs without *Editor* access to the C&E SDE server can access a copy of the geospatial data through a separate server that houses imported versions of the original SDE data to develop GIS layers for project specific editing. This system ensures that the original formatting of geospatial data on the C&E SDE remains unchanged. All user access privileges are assigned by the C&E GIS Manager based upon business needs, GIS skills, and role within the organization. No users outside of the C&E department have editor level access to any GIS data in the C&E SDE, and in some instances there are datasets that are viewable by only C&E GIS users. Instructions for connecting to the C&E SDE are provided to authorized users.

Datasets determined to be viable for publication to the public are exported to the Data Clearinghouse, thereby allowing the general public widespread access to this information via the internet. Members of the public may view metadata and download any of the datasets that are posted to the Data Clearinghouse. In some instances, these datasets are used in webbased interactive mapping applications and can be accessed online via the Mapping Server's services directory, or accessible via the Data Clearinghouse for downloading. The data sharing through downloading is facilitated through H-GAC's Sharefile system. All public C&E GIS data, applications, cartographic products, and the C&E map services directory can be accessed via "GIS, Imagery, & Online Mapping Tools" section of the H-GAC website. A screen shot of the website can be found in Appendix 7.

Geospatial Applications

The C&E department has made a strategic decision to incorporate internet-based mapping applications into its deliverables for many programs and projects. Before, the results of most projects consisted of a large-format map printed on a plotter up to 48"x36" in diameter. This form of cartography although still useful in many settings, did not allow programs to communicate results to the public or external organizations that had an interest in our analysis results. By taking results from C&E projects and coupling this with base map data and imagery, C&E has been able to share the results of projects to a far greater audience and

has created opportunities whereby map layers published on the C&E mapping server can be utilized in other organizations mapping applications.

Currently there are two platforms upon which C&E provides web-based mapping solutions.

The first platform is based on the JavaScript programming technology, and all mapping applications developed using this platform run on various operational systems including Windows, MacOS, ISO, and Android. This platform is intended to provide users with a graphics rich user interface whereby the map can be navigated, layers turned on/off, and information obtained on each feature. In some instances, features have links to additional resources such as photos of monitoring stations, external websites, and detailed reports. This mapping application technology allows the users to display its information on different screen-size devices including desktop, laptop, tablet, and mobile phone.

The second platform utilizes the capabilities of the ArcServer/Arcgis.com platform to allow users to directly access map layers published on the mapping server. This method of delivery is called 'streaming' and allows end users access to individual map layers and geoprocessing tools published on the server. Typical users of this method of delivery are other GIS users using ArcMap GIS, whereby they can connect directly to our ArcServer platform for read-only access and view our map layers. Other instances whereby Arcgis.com's users may utilize this method is where they are including our map layers in their own mapping applications.

Mapping and Cartographic Products

The C&E department produces a variety of static cartographic maps for the region because of project activities and for general usage. To facilitate the sharing of these maps in an electronic format, C&E has implemented a Map Book as part of their C&E GIS page. Maps can be downloaded in multiple formats. The C&E Map Book can be accessed via our C&E GIS page at https://www.h-gac.com/map-book/default.aspx.

System Resources

System Architecture

The C&E department uses an integrated architecture to support the development, analysis, and dissemination of spatial information. The diagram below illustrates this system architecture at a high level. The goal of the overall system is to allow for a streamlined workflow to develop/maintain data, optimize the data for use in online applications, and the consumption of applications via multiple platforms.

Currently the C&E GIS platform supports sharing of geospatial data via the ArcServer mapping server platform. This allows end users internally or externally to consume map layers and geoprocessing tools via GIS desktop, mobile, tablet, or interactive applications.

In some instances, applications are configured with public feedback and volunteer GIS workflows that allow the C&E GIS team to obtain information for the public on various geographic features in the region. This public feedback loop allows C&E to investigate feedback and verify its validity prior to incorporating the information into the data warehouse.

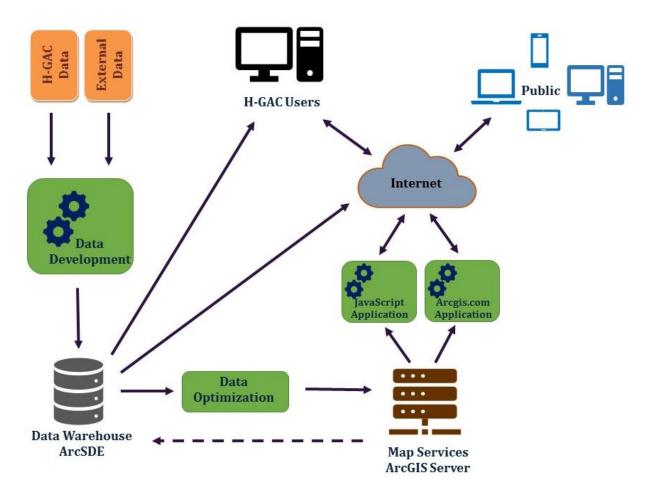


Figure 1: H-GAC Geospatial System Architecture

Hardware

The configuration of the hardware used by staff that performs GIS and data Management work is a distributed network. This network consists of several PC's which are connected to central file servers. The department also uses a central web mapping server for online mapping applications.

A complete listing of departmental hardware is found in Appendix 3.

<u>Software</u>

The C&E department relies upon the H-GAC Data Services department (Data Services) for its end user workstation configuration, installation, and maintenance. Each workstation for

users comes with the Microsoft Office software package which includes Outlook (e-mail), Word (word processing), Excel (spreadsheets), PowerPoint (presentations), and in some instances Access (desktop database) should the user require desktop database capabilities. Each workstation is pre-configured and setup to operate within the H-GAC internal network and has access to central servers for file storage.

The C&E GIS staff utilizes ESRI's ArcGIS 10.6 platform for all geospatial analysis and mapping needs. In addition, as needed, the staff also utilizes the SAS and ENVI software platforms for further analysis and data development as deemed necessary. The ESRI ArcGIS 10.6 platform includes integrated Python programming capabilities, which allows for the creation of programming scripts or batch programs to improve efficiency and documentation of processes. The Python programming language is an Open Source platform and is freely distributable.

The centralized SDE is also provided by ESRI and provided for a centralized geospatial database where GIS staff can store geospatial data for either read-only or editable access by GIS users in the C&E department. The C&E GIS staff maintains access privileges to the SDE datasets and assigns individual users to various SDE access groups to grant approved accessed to data in the SDE. The SDE is considered the central warehouse where GIS users can go to for geospatial data to use in their analysis or mapping projects.

The software products currently used to accomplish the department's data management objectives are listed in Appendix 4.

Programming Languages

Programming services will be provided on an as needed and resource available basis. All programming efforts will follow a standard procedure from needs assessment, program planning, development and testing, to refinement and documentation. The principal programming languages to be used in task automation and project customization will depend on the nature of the need and the current state of the technology. At this time, all web-based GIS applications are developed using the ESRI ArcGIS Server platform, and user interface components to that platform are developed using the ESRI JavaScript API. Automated data development and analysis workflows utilize the Python programming language and the SAS programming platform as needed.

<u>Data</u>

Department staff members will be consulted annually to determine priority needs for data management. Based on this consultation, specific data sets will be acquired or further developed for the various program areas represented in the department. The current list of department-specific data sets is shown in Appendix 5.

A separate database lists all datasets regularly obtained from external sources, contact information, as well as the frequency of the datasets availability, and its cost. This database is developed using Microsoft Excel and is available to the C&E GIS team for tracking when updates to dataset may be available.

Personnel

The Data Management staff will be responsible for the maintenance and development of the C&E SDE, mapping server, geospatial applications, C&E GIS page, and Data Clearinghouse. These data management responsibilities cover a wide range from original data creation, acquisition and integration, data archiving and distribution. Additional responsibilities include enhancing the geographic extent, feature attributes, and metadata of the datasets.

The C&E GIS team is comprised of 9 full-time GIS and data analysis professionals. The C&E GIS team supports all programs within the C&E department, which include Clean Rivers/Water Quality, Sustainability, Economic Development, Solid Waste, Ped/Bike, Socio-Economic Modeling, and special project. The C&E GIS team is part of the Socio-Economic Modeling program within C&E.

H-GAC's Data Services Department plays an indirect role in the implementation and maintenance of The Plan. The Data Services Department is responsible for managing the underlying hardware and network upon which C&E stores GIS data and implements GIS-based applications.

Training

Training for all users of the system is a critical part of The Plan. C&E staff directly responsible for data management will attend conferences, seminars, and software/hardware training courses as needed. H-GAC users of the system will be trained and/or receive technical support by the C&E GIS Manger and other C&E subject matter experts.

Budget

Budgetary requirements to sustain data management efforts will be reviewed annually.

Data Maintenance, Manipulation, and Use

Quality Assurance/Quality Control

QA/QC is designed to standardize screening, documentation, entry, output, analysis, correction, and updating of data in the system. QA/QC will document those responsible for data and system maintenance.

Data Limitations

Prior to the integration of data within the C&E SDE and posting to the Data Clearinghouse, a review of the data set will be completed to determine predefined data limitations such as missing values, different sampling frequencies, multiple measurements, analytical uncertainty, censored or unavailable data, and duplicated data with existing data sets. After review of the data set, a report will be generated which records any errors detected and any corrections that may be necessary.

Data Development Protocol

The C&E GIS staff works to update existing dataset, acquire new data, and perform geospatial analysis in support of various C&E programs. All new data generated from the result of an analysis is a candidate to be stored not only in the SDE as a new dataset, but also as a layer with a mapping application should the need arise. All data development and analysis are done internally to C&E, and at times leverages outside resources such as consultants, other non-profits whom H-GAC is partnering with, as well as with other H-GAC departments to obtain necessary data. Two datasets that the C&E department uses regularly outside the C&E SDE are the Data Services StarMap road centerline dataset and the Data Services aerial imagery database.

The C&E GIS staff uses a hybrid approach to conducting geospatial analysis. Much of the analysis being performed may need to be re-processed later as new versions of datasets become available, or as inputs to the analysis models are updated themselves. Thus, to minimize the time spent re-running analysis models, the C&E GIS staff utilizes the ESRI ArcGIS platform in conjunction with SAS and Python to develop repeatable and documented workflows. This approach saves more time than interactive methods whereby a user must remember the process to follow, and then execute each step in the analysis independently.

Documentation related to data management efforts such as system evolution, structure, and procedures for use will be compiled and made available for the end user. Documentation will be made available online and in hard copy format.

Data Input

Standard conventions for data input will be determined on a per project and/or individual data set basis. To ensure Year 2000 Compliance, all data sets with date/time fields will include a four-digit year (YYYY). Either of the following formats will be used: International Standard Date notation where the date field is represented as MM/DD/YYYY (Month/Day/Year), or an ordinal format where the date field is represented as YYYYDDD.

Data Dictionary

A department-specific list of all C&E data available in the C&E SDE can be found in Appendix 5.

Metadata

Metadata is data about the original source, quality, content, history, condition, and other characteristics of the geospatial data. All GIS datasets generated by H-GAC have been fully documented as per Federal Geographic Data Committee (FGDC) compliant metadata and follow Content Standards for Digital Geospatial Metadata (CSDGM) for all geospatial data. Similarly, data obtained from outside sources and used by H-GAC will include FGDC-compliant metadata from the source agency. Datasets without a known history and documented quality will be identified as provisional and used only when noted as such. The diagram below illustrates elements of the CSDGM standards. This standard is applied to all Point, Line, Polygon, Raster, and Tabular data that are stored in the C&E SDE. The C&E GIS data manager and/or point of contact (designee) has the authorized access to edit/change the metadata when a new dataset is created or updated in the SDE. Metadata for each dataset in the C&E SDE is stored with the datasets and can be viewed by GIS users via their GIS desktop software. Any data provided for public download via the Data Clearinghouse also has a metadata html page that can be viewed via internet browsers.

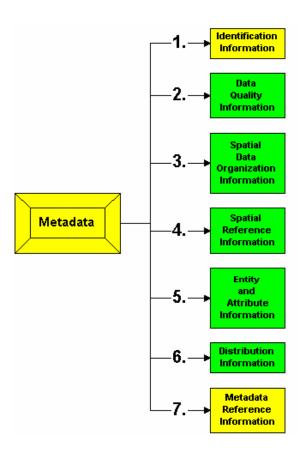


Figure 2: Elements of CSDGM Standards

Data Conversion

Data to be imported into the C&E SDE from hard copy, digital or by manual data entry, will follow a uniform conversion protocol to comply with the structure of current data sets. The type of data being converted will determine the protocol. All data is stored in ESRI geodatabase format within the C&E SDE, and when posted to the Data Clearinghouse the data is stored in the ESRI File Geodatabase file format, unless there is a specific requirement to provide the data in another format such as Shapefile or GIS Coverage.

Coordinate Systems

The Texas Stateplane Coordinate System, North American Datum 1983 (NAD83) will be the standard for geographic data at H-GAC. This coordinate system is based on the Cartesian coordinate system, or rectangular coordinates. When receiving geographic data from other sources the data will be transformed into the Stateplane Coordinate System to ensure compatibility with current data sets.

When publishing mapping services for use in web-based GIS mapping applications, the Web Mercator Auxiliary Sphere projection is used for all Data Frame projections. However, the underlying GIS data within these mapping services still use the Texas Stateplane Coordinate System, North American Datum 1983 (NAD83) projection.

Data Validation

Data Quality Control

When data are received from any source, documentation will be created to include the source name, date received, format of data and a brief description of the contents. Data will be loaded onto the system from the media received and a review of the data will be made along with any corrections being made to the source documentation. An analysis will be made to determine the means of data entry into the system whether it is only a stand-alone database, a number of linked tables, or a geographic database. The data will be converted to the appropriate format for integration with the current system whether it is a conversion into MS Access, Excel, SAS, or ESRI ArcGIS. The data will be visually examined to determine its validity and accuracy. If the data is invalid it will be corrected (if possible) otherwise the data will be incorporated into the C&E SDE, and then if applicable, posted to the Data Clearinghouse and used in conjunction with existing data. A QA/QC report of all procedures and a detailed description of how the data was incorporated into the current system (from the date received to the date of integration) will be generated.

Equipment Quality Control

All printers, workstations, and server hardware and operating systems are maintained by the Data Services department, unless otherwise noted in Appendix 3.

Genealogy

Upon receipt of data from outside sources, all data will be screened for integrity and completeness. After the preliminary evaluation of the data, a log of the data source, type and completeness is created and maintained with the associated data. A description of the data and the responsible personnel are documented.

Migration/Transfer

A copy of every C&E generated GIS dataset will be housed in the C&E SDE which C&E GIS staff manage the contents and structure of datasets. The underlying hardware and network connections for the C&E SDE are maintained by the Data Services Department. Datasets that are of public interest will be placed in the Data Clearinghouse for public access. Transfer from the C&E SDE to the Data Clearinghouse will occur on an as needed basis following department QA/QC measures and is handled by the C&E GIS team.

Data Security & Access

Data placed on the Data Clearinghouse will be available to those with Internet browsing and/or FTP capability. Data requests for non-public data from other agencies and the public will be evaluated on an individual basis. When the data requests are received, a preliminary

evaluation of the deliverable will be determined and a timeline and cost if applicable will be provided to the requesting agency or individual.

GIS and tabular data will be secure through directory permissions. H-GAC will employ Firewall or Proxy Server Technology to filter and severely restrict access to internal networks and database systems. Virus protection will be implemented to ensure system and data integrity.

Archives/Backup

Each week the C&E GIS team runs a schedule backup program to store a copy of all C&E SDE datasets on a portable hard drive with resides in a secure location within the H-GAC office. In addition, Data Services backs up and archives C&E SDE data and server configuration at regular intervals.

Disaster Recovery

In the event of a disaster, the C&E department will have access to all C&E SDE data which is stored on the portable hard drive. The C&E GIS team will restore or provide needed data to GIS users from this portable hard drive until such as time that Data Services can restore the C&E SDE onto either a new server or a temporary server.

Appendices

Appendix 1 Data Source Information Sheet Data Title:
Source Agency: Contact: Title: Address Phone:
Data Description: Data source: Date created: Accuracy: Media: Data items:
Description of data:
Format (specify what software) Map: Tabular: Image: Text:
Retrieval Procedure:
Command(s):

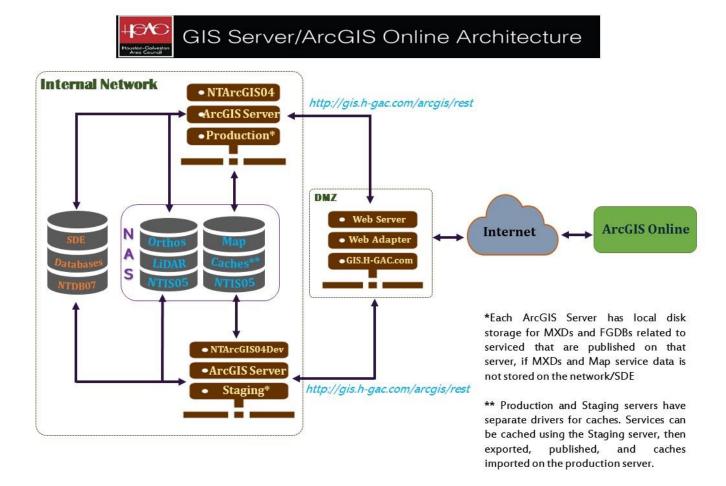
Appendix 2 Data Log Sheet Date received:
Report Prepared by:
Source Name and Phone:
Format:
Media:
Check the following steps to determine the validity of the data: 1. What is the extent of the geographic area?
2. Structure (Circle One) Vector Raster 3. Scale?
4. Projection and Datum?
Do any of the key fields have missing values? If so which parameters have missing values? Yes No
2. Any known duplicate records? Yes No

Appendix 3 Hardware

FTP Server

h-gac.sharefile.com

Mapping Application Servers



Plotters, Printers and Scanners

HP Designjet UPD Generic Plotter

HP Designjet T920 Postscript Plotter

These two plotters are used by all H-GAC staff for large format printing of maps and schematics.

Xerox Workcenter 7845 and Cannon Advanced 4545 Printers and scanners. C&E maintains both printers.

Global Positioning System (GPS) Units

The C&E Department possesses two GPS units.

Fax Equipment

Brother Intellifax 4750e. The C&E Department owns one fax machine.

Appendix 4 Software

Office Productivity Software

Microsoft Office 365 - Word, Excel, Access, PowerPoint, publisher, InfoPath and Outlook.

Graphics and Desktop Publishing

Adobe Illustrator (ver 8.01) – Graphics Adobe Photoshop (ver 5.0) – Graphics

Camtasia Studio (ver 7.0) – Screen capture and video tutorial production

Programming

Microsoft Visual Studio – Web Mapping Development Tool.

Web AppBuilder for ArcGIS (ver 1.8) – Web-based GIS application development tool SAS (ver 9.4) – Data development and analytics.

Geographic Information Systems (GIS)

ESRI ArcGIS (ver 10.6) – Computer mapping and database manipulation capable of using ArcView, ArcInfo, and ArcEditor licenses as needed.

ESRI ArcGIS Server (ver 10.2, SP3) – Internet Mapping Application Server.

ESRI ArcSDE (ver 10.2, SP1) – Spatial data warehouse.

ENVI Remote Sensing Data Analysis Package - Harris Geospatial

Data Management

Microsoft Access (365) - Relational Database.

SQL Server (2012) - Relational Database.

Operating Systems

Windows 7 - PC working environment/Operating System

Windows 10 - PC working environment/Operating System

Windows 2012 & 2016 - Server Operating Systems

Appendix 5 Data List

<u>C&E Spatial Data Warehouse (SDE) Dataset</u>

COL Spatial Data Walchouse (SDL) Dataset	
Buildings	Point
HGAC_13_County_CRP_Monitoring_Stations_2017	Point
Houston_Bcycle_Stations_2018	Point
Texas_Address_Points_2017	Point
HGAC_13_County_Closed_Landfill_Inventory	Point
HGAC_15_County_Watershed_Signs	Point
HGAC_15_County_Bio_Monitoring_Sites	Point
HGAC_8_County_Comprehensive_Plan_2010_pts	Point
HGAC_13_County_CRP_Monitoring_Stations_2011	Point
HGAC_13_County_CRP_Monitoring_Stations_2010	Point
HGAC_13_County_CRP_Monitoring_Stations_2008	Point
HGAC_13_County_Recycle_Centers	Point
Clean_Rivers_Public_Feedback	Point
SEM_User_Input_Point	Point
HGAC_13_County_CRP_Monitoring_Stations_2012	Point
Cedar_Bayou_Watershed_Project_Monitoring_Sites	Point
HGAC_15_County_CRP_Stream_End_Points	Point
USGS_Stream_Gauges_2009	Point
USGS_Stream_Gauges_2010	Point
USGS_Stream_Gauges_2012	Point
HGAC_13_County_Grocery_Stores	Point
HGAC_13_County_Brownfield_Sites	Point
HGAC_13_County_Superfund_NPL_Sites_Pts	Point
HGAC_8_County_PedBike_Improvement_Locations	Point
HGAC_13_County_CRP_Monitoring_Stations_2013	Point
HGAC_13_County_Libraries	Point
HGAC_13_County_Airports	Point
HGAC_13_County_Parks	Point
HGAC_Other_CRP_Monitoring_Stations	Point
HGAC_13_County_Landfills	Point
HGAC_13_County_Landfills_Historical	Point
Model_Buildings_Rural	Point
Model_Buildings	Point
HGAC_13_County_CRP_Monitoring_Stations_Historical	Point
HGAC_13_County_CRP_Monitoring_Stations_2014	Point
HGAC_13_County_CRP_DO_Stations	Point
HGAC_13_County_CRP_Monitoring_Stations_2015	Point
LID_Projects	Point
HGAC_13_County_CRP_Monitoring_Stations_2016	Point

Model_Parcels_Pts Model_Parcels_Pts Model_Buildings_2014 Point Model_Buildings_2014 Point Ped_Bike_Destinations_2014 Ped_Bike_Destinations_2014 Texas_Stream_Team_Monitoring_Sites_2016 Point USGS_Stream_Gauges_2017 HGAC_13_County_FoodWaste_Composters Point Apartment_Input Critical_Facilities_2017 Point Ped_Bike_Destinations_2017 Ped_Bike_Destinations_2017 Ped_Bike_Destinations_2017 Ped_Bike_Destinations_2017 Ped_Bike_Destinations_2017 Point Model_Buildings_2017 Model_Buildings_2017 Model_Buildings_2017 Model_Buildings_2017 Model_Buildings_2017 Model_Buildings_2017 Model_Stream_Team_Monitoring_Stations_2019_WRIM HGAC_15_County_CRP_Monitoring_Stations_2019_WRIM Point HGAC_15_County_CRP_Monitoring_Stations_2019 HGAC_13_County_Mobile_Home_Parks_FEMA Point Texas_Stream_Team_Monitoring_Sites_2020 Point HGAC_13_County_Wobile_Home_Parks_FEMA Point Ped_Bus_Stream_Team_Monitoring_Sites_2020 Point HGAC_13_County_OSSF_Permits_2017 HGAC_13_County_OSSF_Permits_2018 HGAC_13_County_OSSF_Permits_2018 HGAC_13_County_OSSF_Permits_2019 Point HGAC_13_County_OSSF_Permits_2019 Point HGAC_13_County_OSSF_Permits_2019 Point HGAC_13_County_Wastewater_Outfall_Domestic_2019 Point HGAC_13_County_Wastewater_Outfall_Domestic_2019 Point HGAC_13_County_Wastewater_Outfalls_Domestic_2019 Point HGAC_15_County_Wastewater_Outfalls_Domestic_2019 Point HGAC_15_County_Wastewater_Outfalls_Domestic_2019 Point HGAC_15_County_Wastewater_Outfalls_Pre2017 Point HGAC_15_County_Wastewater_Outfalls_Pre	Dod Bike Dectinations 2010	Doint
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HGAC_13_County_Superfund_NPL_SitesPolygonHGAC_8_County_PedBike_Improvement_AreasPolygonHGAC_13_County_PlatsPolygon	HGAC_13_County_G5M	Polygon
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HGAC_13_County_Plats Polygon		
	HGAC_13_County_Plats	1
	HGAC_13_County_Landfill_Areas	

	Polygon Polygon
Model Parcels Removed Merged F	Polygon
	Polygon
· — · · ·	Polygon
LivableCenters	Polygon
HGAC_13_County_MPC	Polygon
CRP_MonitoringStations_Subwatersheds P	Polygon
Parcels_2014 P	Polygon
CRP_HUC12_RPS_updated F	Polygon
BLUEMAP_HEX_2015 P	Polygon
BLUEMAP_Property_Value_HEX	Polygon
Model_Parcels_2014 F	Polygon
BLUEMAP_HEX_2016_Pedestrian_Demand_Index P	Polygon
Barker_and_Addicks_Reservoir_Watersheds F	Polygon
HGAC_15_County_NHDPlusV2_Catchment_Boundary F	Polygon
HGAC_15_County_Water_Detailed_2018 F	Polygon
Model_Parcels_2017 F	Polygon
HGAC_13_County_ACS_2015_Blockgroup_summary F	Polygon
HGAC_13_County_ACS_2016_Blockgroup_summary F	Polygon
USFWS_15_County_Wetlands_2018 F	Polygon
HGAC13_CountyTest F	Polygon
HGAC_8_County_Sector_25	Polygon
HGAC_13_County_Ecological_Mapping_System_TPWD_2015 F	Polygon
HGAC_13_County_Opportunity_Zones F	Polygon
HGAC_8_County_EcoType_Change_Developed F	Polygon
ACE_HEX_2017 F	Polygon
HGAC_13_County_MS_Building_Footprints_2015 F	Polygon
COH_Plats_2018_2020_feb F	Polygon
BLUEMAP_HEX P	Polygon
ISDS_2018 F	Polygon
	Polygon
CH_Parcels_2013 P	Polygon
	Polygon
 	Polygon
	Polygon
	Polygon

MG Parcels 2013	Polygon
HR Parcels 2013	Polygon
Census Tracts	Polygon
Transportation_Analysis_Zones_5217	Polygon
Transportation_Analysis_Zones_2954	Polygon
One SQM Grid	Polygon
Nine SQM Grid	Polygon
Transportation_Analysis_Zones_5217_1	Polygon
Transportation_Analysis_Zones_2954_1	Polygon
One_SQM_Grid_1	Polygon
Nine SQM Grid 1	Polygon
Census Tracts 1	Polygon
RoadwayDensity	Polygon
HouseholdPopulationDensity	Polygon
IntersectionDensity	Polygon
EmploymentDensity	
ActivityPopulationDensity	Polygon Polygon
Jobs Household Ratio 1500	Polygon
Jobs_Household_Ratio_above_1500	Polygon
	Polygon
BZ_2014_org	Polygon
CH_2013_org FB_2014_org	Polygon
GV_2014_org	Polygon
HR_2014_org	Polygon
LB 2014 org	Polygon
MG 2013 org	Polygon
WA 2014 org	Polygon
Employment	Polygon
HouseholdPopulation	Polygon
Intersection	Polygon
ActivityPopulation	Polygon
Job_HH_Ratio_above_2000	Polygon
ZipCode Businesses	Polygon
ZipCode PPP Loans	Polygon
CongressionalDistricts PPP Loans	Polygon
HGAC 15 County Service Area Boundaries 2019	Polygon
MS4_Permitted_Areas_2018	Polygon
HGAC 15 County Service Area Boundaries 2020	Polygon
HGAC_13_County_Service_Area_Boundaries HGAC_13_County_Service_Area_Boundaries	Polygon
HGAC_13_County_Service_Area_Boundaries_2013	Polygon
HGAC_13_County_Service_Area_Boundaries_2014	Polygon
TIOAC_15_COUNTY_SERVICE_ATEA_BOUNDATIES_2014	Polygon

HGAC 13 County Service Area Roundaries 2015	Polygon
HGAC_13_County_Service_Area_Boundaries_2015	Polygon
HGAC_13_County_Service_Area_Boundaries_2017 HGAC_13_County_Service_Area_Boundaries_Domestic_2018	Polygon Polygon
CensusTracts	Polygon
H3M	Polygon
TAZ	Polygon
County	Polygon
Tracts 2018	Polygon
BGs 2018	Polygon
Congressional_Districts_2018	Polygon
Counties 2018	Polygon
Zips_2018	Polygon
BGs_Vulnerable_2018	Polygon
ISD 2018	Polygon
Places_poly_2018	Polygon
TexasStateHouse 2018	Polygon
TexasStateFlouse_2018	Polygon
Landfill_Areas	Polygon
HR_Model_Predictions_v2018_p1	Polygon
HR Model Predictions v2018 p2	Polygon
HR Model Predictions v2018 p3	Polygon
BZ Model Predictions v2018	Polygon
CH Model Predictions v2018	Polygon
FB Model Predictions v2018	Polygon
HR Model Predictions v2018	Polygon
LB Model Predictions v2018	Polygon
WA Model Predictions v2018	Polygon
MG Model Predictions v2018	Polygon
GV_Model_Predictions_v2018	Polygon
Forecast Census Tracts 2018	Polygon
Forecast H3M 2018	Polygon
Forecast TAZ5217 2018	Polygon
Current_Future_Land_Use_2018	Polygon
ACS_Housing_Counties_2017	Polygon
ACS_Housing_Places_2017	Polygon
ACS_Housing_Tracts_2017	Polygon
AU_POLY_2016	Polygon
AU_POLY_2016_BactGeomean	Polygon
AU_POLY_2016_Trends	Polygon
BIG_Project_Area	Polygon
Caney_Creek_Watershed	Polygon

Chocolate_Bayou_Watershed	Polygon
CRP Project Areas 1	Polygon
CYpress	Polygon
GoM extended	Polygon
HGAC_15_County_Watersheds_1	Polygon
HGAC Basins 5	Polygon
HGAC_Counties_Updated	Polygon
Oyster Creek Watershed	Polygon
Seg_POLY_2016	Polygon
Selected_POLY	Polygon
Selected POLY2	Polygon
Selected POLY3	Polygon
Spring_WPP	Polygon
watersheds_2016	Polygon
West_Fork_Lake_Creek_Watershed	Polygon
Counties	Polygon
CountyPrecincts	Polygon
TexasStateHouse	Polygon
TexasStateSenate	Polygon
US House	Polygon
US_Senate	Polygon
MUD	Polygon
Cities	Polygon
CityCouncilDistricts	Polygon
Counties_OccupationAnalysis	Polygon
BlockGroups_OccupationAnalysis	Polygon
Tracts_OccupationAnalysis	Polygon
G3M	Polygon
G3M_Updated	Polygon
HouseholdPopulation_2000	Polygon
Intersection_2000	Polygon
Employment_2000	Polygon
Job_HH_Ratio_2000	Polygon
ActivityPopulation_2000	Polygon
Forecast_Census_Tracts_2017	Polygon
Forecast_TAZ5217_2017	Polygon
Forecast_H3M_2017	Polygon
Current_Future_Land_Use	Polygon
CEnsus_Tracts_2015	Polygon
Places_poly_2015	Polygon
BGs_2015	Polygon

Counties_2015	Polygon
BGs Vulnerable 2015	Polygon
Zips_2015	Polygon
Census Places 2015	Polygon
BGs 2014	Polygon
Counties 2014	Polygon
Zips 2014	Polygon
Census_Tracts_2014	Polygon
Tract LEHD 09 17	Polygon
County_LEHD_09_17	Polygon
HEX H1M 09 17	Polygon
Place LEHD 09 17	Polygon
METRO_Transit\CE.CE_ADMIN.METRO_Service_Area	Polygon
METRO_Transit\CE.CE_ADMIN.METRO_Service_Area_2018	Polygon
RGF 2016\CE.CE ADMIN.Forecast TAZ2954	Polygon
RGF 2016\CE.CE ADMIN.Forecast TAZ5217	Polygon
RGF 2016\CE.CE ADMIN.Forecast Census Tracts	Polygon
RGF_2016\CE.CE_ADMIN.Forecast_H3M	Polygon
ActivityPopulation_2016	Polygon
Employment 2016	Polygon
Intersection 2016	Polygon
HouseholdPopulation_2016	Polygon
Job_HH_Ratio_2016	Polygon
Accessibility Score 2016	Polygon
Amenity_Index_2016	Polygon
Counties 2016	Polygon
Zips_2016	Polygon
Tracts_2016	Polygon
Places_poly_2016	Polygon
BGs_Vulnerable_2016	Polygon
BGs_2016	Polygon
BGs_Veterans_2016	Polygon
ISDs_2016	Polygon
Counties_TX_Veterans_2016	Polygon
Counties_2017	Polygon
Places_poly_2017	Polygon
Tracts_2017	Polygon
BGs_Vulnerable_2017	Polygon
BGs_2017	Polygon
ISDs_2017	Polygon
Zips_2017	Polygon

Congressional_Districts_115th_ACS_2017	Polygon
Congressional_Districts_2017	Polygon
HGAC_15_COUNTY_LAND_COVER_2015_10_CLASS	Raster
HGAC_15_COUNTY_LAND_COVER_2018_10_CLASS	Raster
NLCD_IMPERVIOUSNESS_2016	Raster

<u>C&E Non-Spatial Data</u>
Ambient Surface Water Quality Monitoring
Wastewater Self-reporting Data
Parcel-Based Land Use, Attributes, and Valuation (9 counties)
Census Data

Appendix 6 Data Dictionary

Data Dictionary

Houston-Galveston Area Council

Community and Environmental Planning Department

		G	eneral Informatio	on		
Thematic Layer Na	me					
Feature Class						
Topology						
Table Name						
Data Source						
Report Prepared by	у					
Phone	Fax		1		E-Mail	
			Attribute Table			
Variable	Begin Colu	ımn	Item Name	Alte	rnate Name	Item Definition
			Data History			
Source Agency						
Originating Date						

Originating Scale

Status Information
Percentage Complete
Planned Completion Date
Geographic Extent
Planned Enhancements
Known problems or limitations

Maintenance Information
Maintaining Office/Division/Section
Contact Name
Contact Telephone Number
Type of updates performed
Frequency of Updates

Data Format Information
Data Format
Software/Version
Number of features/records
Total File Size

Projection
Geographic Projection:
Spheroid:
Zone:
Datum:
Units:
Fips Zone:
Quadrant:
X Shift:
Y Shift:
1st Standard Parallel:
2nd Standard Parallel:
Central Meridian:
Lat. of Projection Origin:
False Easting:
False Northing:

Additional Documentation
Quality Assurance Quality Control
Attribute Reports Available
Additional Documentation Available

Appendix 7 H-GAC GIS Data and Mapping Applications

