

Shoreline Inventory for Stafford County 2015: Access structures

Shapefile



Tags

Virginia, Shoreline condition, Potomac River, Rappahannock River, Stafford County, Shoreline structures

Summary

To inventory Stafford County tidal shoreline conditions.

Description

Shoreline Situation Reports (SSR) were first generated by VIMS in the 1970s to report the condition and status of the shore lands. The SSR series were published in hardcopy on a county by county basis for each of the Tidewater Virginia localities. The reports were intended to assist planners, managers, and regulators in decisions pertaining to management of coastal areas and natural resources therein. This report continues the process which updates and expands earlier reports. Data collected describes conditions in the immediate riparian zone, the bank, and along the shore. Stafford County was last inventoried in 2006.

Credits

There are no credits for this item.

Use limitations

There are no access and use limitations for this item.

Extent

West -77.423866 **East** -77.284809

North 38.500680 **South** 38.256612

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE boundaries, environment, location, structure

* CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Virginia, Potomac River, Rappahannock River, Potomac Creek, Aquia Creek, Chopawamsic Creek, Stafford County

THEME KEYWORDS Shoreline condition, Access structures, Shoreline Inventory

Citation

TITLE Shoreline Inventory for Stafford County 2015: Access structures
PUBLICATION DATE 2015-09-30 00:00:00

PRESENTATION FORMATS * digital map

Citation Contacts

RESPONSIBLE PARTY
INDIVIDUAL'S NAME Marcia Berman
ORGANIZATION'S NAME Virginia Institute of Marine Science (VIMS)
CONTACT'S POSITION Director Comprehensive Coastal Inventory Program
CONTACT'S ROLE point of contact

CONTACT INFORMATION

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COUNTRY US
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Resource Details

DATASET LANGUAGES * 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 10.1.0.3035

ARCGIS ITEM PROPERTIES

* **NAME** StaffordCo_astru_2015
* **SIZE** 0.013
* **LOCATION** *****
* **ACCESS PROTOCOL** Local Area Network

Extents

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* **WEST LONGITUDE** -77.423866
* **EAST LONGITUDE** -77.284809
* **NORTH LATITUDE** 38.500680
* **SOUTH LATITUDE** 38.256612
* **EXTENT CONTAINS THE RESOURCE** Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* **WEST LONGITUDE** 288623.950361
* **EAST LONGITUDE** 300095.647774
* **SOUTH LATITUDE** 4237047.373498
* **NORTH LATITUDE** 4263859.150371
* **EXTENT CONTAINS THE RESOURCE** Yes

Resource Constraints

LEGAL CONSTRAINTS

LIMITATIONS OF USE

The Comprehensive Coastal Inventory Program (CCI) at VIMS performs a service by distributing data generated by either CCI or public agencies which offer data without restriction or charge. CCI assumes no responsibility for data accuracy or precision, metadata completeness or correctness for digital information. CCI assumes no liability for misuse of any data which may arise as a result of any alteration, conversion, or combination with other data sources. As well, the timeliness and scale of these products must be considered when evaluating appropriate use.

LIMITATIONS OF USE

These data should not be used for jurisdictional permit determinations beyond providing general shoreline condition or status information. These data have not been surveyed to property boundaries.

Spatial Reference

ARCGIS COORDINATE SYSTEM

* **TYPE** Projected
* **GEOGRAPHIC COORDINATE REFERENCE** GCS_North_American_1983

```

* PROJECTION  NAD_1983_UTM_Zone_18N
* COORDINATE REFERENCE DETAILS
PROJECTED COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER  26918
X ORIGIN  -5120900
Y ORIGIN  -9998100
XY SCALE  450445547.3910538
Z ORIGIN  -100000
Z SCALE  10000
M ORIGIN  -100000
M SCALE  10000
XY TOLERANCE  0.001
Z TOLERANCE  0.001
M TOLERANCE  0.001
HIGH PRECISION  true
LATESTWKID  26918
WELL-KNOWN TEXT
PROJCS["NAD_1983_UTM_Zone_18N",GEOGCS["GCS_North_American_1983",DATUM["D_No
rth_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenw
ich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARA
METER["False_Easting",500000.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_
Meridian",-
75.0],PARAMETER["Scale_Factor",0.9996],PARAMETER["Latitude_Of_Origin",0.0],UNIT["Met
er",1.0],AUTHORITY["EPSG",26918]]

REFERENCE SYSTEM IDENTIFIER
DIMENSION  horizontal
* VALUE  26918
* CODESPACE  EPSG
* VERSION  7.9.4

```

Spatial Data Properties

VECTOR

```

* LEVEL OF TOPOLOGY FOR THIS DATASET  geometry only

```

GEOMETRIC OBJECTS

```

FEATURE CLASS NAME  StaffordCo_astru_2015
* OBJECT TYPE  point
* OBJECT COUNT  465

```

ARCGIS FEATURE CLASS PROPERTIES

```

FEATURE CLASS NAME  StaffordCo_astru_2015
* FEATURE TYPE  Simple
* GEOMETRY TYPE  Point
* HAS TOPOLOGY  FALSE
* FEATURE COUNT  465

```

* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

Data Quality

SCOPE OF QUALITY INFORMATION

RESOURCE LEVEL dataset

Lineage

PROCESS STEP

WHEN THE PROCESS OCCURRED 2015-03-01 00:00:00

DESCRIPTION The shoreline produced for the 2001 Stafford County Shoreline Inventory Report was copied and corrected to the new 2013 VBMP imagery. Other resources, such as Google Earth and Bing Maps, were used when shoreline visibility was obscured.

PROCESS STEP

WHEN THE PROCESS OCCURRED 2015-06-01 00:00:00

DESCRIPTION All processing steps for the shoreline inventory were done using ArcGis version 10. Using the latest VBMP 2013 imagery as a background, conditions visible on shore were used to code a digital shoreline created using VBMP 20013 imagery at a scale of 1:1000. Conditions were also verified using Bing Birds Eye, VBMP 2011, and VBMP 2009 imagery. For the land use/bank cover shapefile arcs were split and coded for land use, bank height, bank cover, tree fringe and presence or absence of beach, for the access structure shapefile arcs were coded for dock, dilapidated dock, boathouse, and public and private ramps, for the shoreline structure shapefile arcs were coded for bulkhead, dilapidated bulkhead, riprap, unconventional, debris, wharf, breakwater, groinfield, jetty, marsh toe revetment and marina >50 and <50 slips.

PROCESS STEP

WHEN THE PROCESS OCCURRED 2015-07-01 00:00:00

DESCRIPTION A small draft boat was used to collect tidal marsh inventory data in the field. A video camera is set up and collects imagery of the coastline as it passes by the camera lens. Data is logged using a geo-referenced video camera. The Red Hen System provides hardware and software to collect geo-referenced video and photo data in the field. A standard video camera (sony ACC-HDV7) is interfaced with a GPS antennae via the Red Hen hardware device - VMS 300. VMS 300 converts GPS data into audio signals, which are sent to a video camera through its microphone input connector. As the video is recorded, GPS data are transmitted once per second to the video camera by VMS 300. Each GPS location is linked with a time code on the video. Therefore, the survey is a set of videos containing geographically referenced shoreline data.

PROCESS STEP

WHEN THE PROCESS OCCURRED 2015-07-01 00:00:00

DESCRIPTION The first step in the QAQC process involves complete checks of shoreline coding by a GIS Programmer/Analyst and a Marine Scientist

PROCESS STEP

WHEN THE PROCESS OCCURRED 2015-08-01 00:00:00

DESCRIPTION The second and third step in the QAQC process involves complete checks of shoreline coding by a GIS Programmer/Analyst and a Marine Scientist.

Distribution

DISTRIBUTION FORMAT

* NAME Shapefile

VERSION shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.013

Fields

DETAILS FOR OBJECT StaffordCo_astru_2015

* TYPE Feature Class

* ROW COUNT 465

FIELD FID

* ALIAS FID

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES Sequential unique whole numbers that are automatically generated.

FIELD Shape

- * **ALIAS** Shape
- * **DATA TYPE** Geometry
- * **WIDTH** 0
- * **PRECISION** 0
- * **SCALE** 0
- * **FIELD DESCRIPTION**
Feature geometry.
- * **DESCRIPTION SOURCE**
Esri
- * **DESCRIPTION OF VALUES** Coordinates defining the features.

FIELD Id

- * **ALIAS** Id
- * **DATA TYPE** Integer
- * **WIDTH** 6
- * **PRECISION** 6
- * **SCALE** 0

FIELD PNTSTRU

- * **ALIAS** PNTSTRU
- * **DATA TYPE** String
- * **WIDTH** 50
- * **PRECISION** 0
- * **SCALE** 0
- * **FIELD DESCRIPTION**
Access structure type: Dock, Dilapidated Dock, Boathouse, Private Ramp and Public Ramp
- * **DESCRIPTION SOURCE**
Processor

LIST OF VALUES

VALUE Dock/Pier

DESCRIPTION In this survey, a dock or pier is a structure, generally constructed of wood, which is built perpendicular or parallel to the shore. These are typical on private property, particularly residential areas. They provide access to the water, usually for recreational purposes. Docks and piers are mapped as point features on the shore. Pier length is not surveyed.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Dilapidated Dock

DESCRIPTION A pier which has failed due to deterioration from age or storm damage is classified as a dilapidated pier. The remnants of this structure may be original pilings only

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Private Ramp

DESCRIPTION Boat ramps are used to launch vessels of all types. They are usually constructed of concrete, but wood and gravel ramps are also found. Point identification of boat ramps does not discriminate based on type, size, material, or quality of the launch. This inventory attempts to distinguish, when possible, private versus public ramps. Ramps located in privately owned, commercial marinas and residential communities are classified as private

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Public Ramp

DESCRIPTION Boat ramps are used to launch vessels of all types. They are usually constructed of concrete, but wood and gravel ramps are also found. Point identification of boat ramps does not discriminate based on type, size, material, or quality of the launch. This inventory attempts to distinguish, when possible, private versus public ramps. Ramps located in privately owned, commercial marinas and residential communities are classified as private

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

VALUE Boathouse

DESCRIPTION A boathouse is considered any covered structure alongside a dock or pier built to cover a boat. They include true "houses" for boats with roof and siding, as well as awnings that offer only overhead protection. Since nearly all boathouses have adjoining piers, piers are not surveyed separately, but are assumed. Boathouses may be difficult to see in aerial photography.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Glossary of Shoreline Features Defined, Center for Coastal Resources Management, VIMS

FIELD Inv_update

* ALIAS Inv_update

* DATA TYPE String

* WIDTH 200

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Imagery used

DESCRIPTION SOURCE

Processor

Metadata Details

* METADATA LANGUAGE English (UNITED STATES)

* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER 8DB0EED5-3699-47CE-9FE8-2D8F2F6C90A3

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

* LAST UPDATE 2015-09-09

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA NAP

CREATED IN ARCGIS FOR THE ITEM 2015-06-26 09:52:11

LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-09-09 08:34:06

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2015-09-09 08:34:06

Metadata Contacts

METADATA CONTACT

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