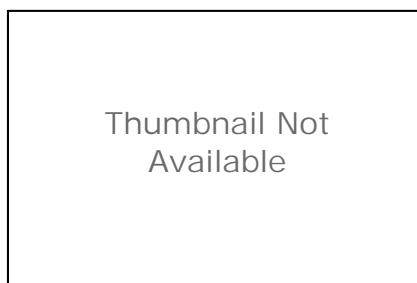


Historical_Habitats

File Geodatabase Feature Class



Tags

Historical ecology, San Francisco Bay, Walnut Creek, Pacheco Creek, Pacheco Slough, Arroyo de las Nueces, Suisun Bay, Contra Costa County, Concord, Pleasant Hill, Pacheco, Avon, Maltby, Clyde, Point Edith, Pt. Edith, Hastings Slough, Bulls Head Point, Seal Bluff Landing, Port Chicago, Seal Creek, Mt. Diablo Creek, Galindo Creek, Pine Creek, Grayson Creek, Hidden Valley Creek, Pacheco Marsh, Contra Costa County Flood Control and Water Conservation District, Tesoro Golden Eagle Refinery, Mallard Reservoir, Waterbird Regional Preserve, Buchanan Field Airport, Diablo Valley, Ygnacio Valley, Flood Control 2.0, Waterfront Road, creek, channel, channel alignment, channelization, wetland, tidal marsh, tributary, alkali meadow, freshwater marsh, willow swamp, historical condition, sediment, flood, habitat, shoreline progradation, pre Euro-American, Monte del Diablo, Las Juntas

Summary

Geospatial data were developed to reconstruct the historical (ca. 1850) landscape of lower Walnut Creek. The study was conducted as part of Flood Control 2.0, a regional effort to advance new approaches to flood risk management and habitat enhancement along the San Francisco Bay shoreline. The data is intended to support the development of integrated strategies for habitat restoration, flood protection, sediment management, and other watershed concerns. The study area extends along the shoreline approximately 4.5 miles from Bulls Head Point to Seal Bluff Landing, and extends inland from Suisun Bay approximately 8 miles to Pleasant Hill. Mapped features include tidal wetlands, adjacent non-tidal wetlands, and downstream portions of major stream channels.

Description

This geodatabase contains three feature classes representing historical habitats, channels, and distributaries within the lower Walnut Creek watershed. Sources used to document and reconstruct historical features included maps, photographs, drawings, and textual documents. Data was collected from nine local and regional archives as well as numerous online databases. The research also drew on a large amount of data previously collected as part of the Eastern Contra Costa County Historical Ecology Study (Stanford et al. 2011; <http://www.sfei.org/HEEastContraCosta>).

A geographic information system was used to collect, catalog, and synthesize the spatial components of the study area. Historical maps, aerial photographs, and selected textual quotes were georeferenced, allowing us to compare historical layers to each other and to contemporary aerial photography and maps. The boundaries of each feature were mapped from the most spatially-accurate sources representative of conditions prior to major Euro-American modification of the landscape. Wherever possible, features were documented using multiple independent sources. Each feature in the GIS database was attributed with both supporting sources as well as certainty levels representing our confidence in feature classification, shape/size, and location.

Additional supporting information, including research methods, examples of key sources, and

additional bibliographic references can be found in the Resilient Landscape Vision for Lower Walnut Creek (San Francisco Estuary Institute-Aquatic Science Center 2016) and on the project website: <http://www.sfei.org/projects/lower-walnut-creek-historical-ecology-study>

--

Attribute table fields:

Habitat_Type: Feature classification.

Interp_Cert: H (high): feature definitely representative of conditions ca. 1850; M (medium): feature probably representative of conditions ca. 1850; or L (low): feature possibly representative of conditions ca. 1850.

Shape_Cert: H (high): feature expected to closely follow actual shape; M (medium): feature expected to generally follow actual shape; L (low): feature not necessarily representative of actual shape.

Loc_Cert: H (high): expected maximum horizontal displacement less than 50 m; M (medium): less than 150 m; L (low): less than 500 m.

Notes: Additional documentation about the feature.

S_Digitize: Source data used to digitize the feature.

S_Interp1: Interpretation Source 1 - Primary data used to interpret the feature if other than the digitizing source.

S_Interp2: Interpretation Source 2 - Data used to support mapping of the feature— additional documentation/evidence other than Interpretation Source 1.

Source_Quotes and Source Quotes 2: Historical textual quotes supporting the mapped feature.

Notes2: [field not present in all feature classes] Additional documentation about the feature.

SHAPE_STArea_: Area of the feature in square meters.

SHAPE_STLength_: Length of the feature boundary in meters.

--

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Credits

San Francisco Estuary Institute 2016

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For more detail about general historical ecology methods refer to: -- Grossinger, RM, Striplen CJ, Askevold R, Brewster E, Beller EE. 2007. Historical landscape ecology of an urbanized California valley: wetlands and woodlands in the Santa Clara Valley. *Landscape Ecology*: 103-120. -- Questions about SFEI data may be directed to the GIS Manager, at [510-746-7334](tel:510-746-7334).

Extent

West -122.119789 **East** -122.028533
North 38.056918 **South** 37.973557

Scale Range

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

ArcGIS Metadata ►

Topics and Keywords ►

* **CONTENT TYPE** Downloadable Data

THEME KEYWORDS San Francisco Bay, Point Edith, Pleasant Hill, tidal marsh, Port Chicago, Pacheco Creek, Las Juntas, Pacheco Marsh, Concord, Historical ecology, Clyde, channel, habitat, Tesoro Golden Eagle Refinery, Maltby, willow swamp, flood, freshwater marsh, Mallard Reservoir, channel alignment, Buchanan Field Airport, Galindo Creek, Monte del Diablo, Seal Bluff Landing, Hidden Valley Creek, Contra Costa County, Flood Control 2.0, Seal Creek, Arroyo de las Nueces, Pacheco, Waterfront Road, alkali meadow, pre Euro-American, Pine Creek, Avon, Walnut Creek, Suisun Bay,

channelization, Grayson Creek, Waterbird Regional Preserve, Pacheco Slough, Contra Costa County Flood Control and Water Conservation District, Hastings Slough, Pt. Edith, shoreline progradation, historical condition, Bulls Head Point, Diablo Valley, Ygnacio Valley, tributary, wetland, Mt. Diablo Creek, creek, sediment

[Hide Topics and Keywords ▲](#)

Citation ►

* **TITLE** Historical_Habitats

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

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CONTACT'S ROLE originator

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COUNTRY US

E-MAIL ADDRESS seanb@sfei.org

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

SPATIAL REPRESENTATION TYPE vector

* **PROCESSING ENVIRONMENT** Version 6.2 (Build 9200) ; Esri ArcGIS 10.2.2.3552

CREDITS

San Francisco Estuary Institute 2016

ARCGIS ITEM PROPERTIES

* **NAME** Historical_Habitats

* **LOCATION** file:///\\geodata1\\q\\Historical Ecology\\GIS\\Walnut Creek\\Deliverable GIS data\\Lower_Walnut_Creek_Historical_Ecology_SFEI_2016.gdb

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

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 EAST LONGITUDE -121.968215
 SOUTH LATITUDE 37.935812
 NORTH LATITUDE 38.052526

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

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 * EAST LONGITUDE -122.028533
 * NORTH LATITUDE 38.056918
 * SOUTH LATITUDE 37.973557
 * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

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 * EAST LONGITUDE 585228.023600
 * SOUTH LATITUDE 4203325.222900
 * NORTH LATITUDE 4212496.676500
 * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Constraints ►

CONSTRAINTS

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For more detail about general historical ecology methods refer to: -- Grossinger, RM, Striplen CJ, Askevold R, Brewster E, Beller EE. 2007. Historical landscape ecology of an urbanized California valley: wetlands and woodlands in the Santa Clara Valley. Landscape Ecology.: 103-120. -- Questions about SFEI data may be directed to the GIS Manager, at

510-746-7334.

[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_UTM_Zone_10N
- * COORDINATE REFERENCE DETAILS
 - PROJECTED COORDINATE SYSTEM
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 - Y ORIGIN -9998100
 - XY SCALE 10000
 - Z ORIGIN 0
 - Z SCALE 1
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 - M SCALE 1
 - XY TOLERANCE 0.001
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 - WELL-KNOWN TEXT PROJCS["NAD_1983_UTM_Zone_10N",GEOGCS
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- * VALUE 26910
- * CODESPACE EPSG
- * VERSION 8.2.6

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Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

- FEATURE CLASS NAME Historical_Habitats
 - * OBJECT TYPE composite
 - * OBJECT COUNT 173

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

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 - * FEATURE TYPE Simple
 - * GEOMETRY TYPE Polygon

* HAS TOPOLOGY FALSE
 * FEATURE COUNT 173
 * SPATIAL INDEX TRUE
 * LINEAR REFERENCING FALSE

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Hide Spatial Data Properties ▲

Geoprocessing history ►

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DATE 2013-08-27 17:24:17

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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DATE 2013-08-27 17:27:54

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"[S_Interp2] & "; Oglesby 1925"" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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PROCESS NAME

DATE 2013-08-27 17:32:27

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField "HABITATS - vegetation\Historical_Habitats" S_Interp1
"[S_Interp2] & "; Punnett Bros 1914"" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-08-27 17:32:54

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField "HABITATS - vegetation\Historical_Habitats" S_Interp1
"[S_Interp1] & "; Punnett Bros 1914"" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-08-27 18:00:45

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField "HABITATS - vegetation\Historical_Habitats" S_Interp1 ""Van Dorn
1860; " & [S_Interp1]" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-08-27 18:34:52

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField "HABITATS - vegetation\Historical_Habitats" Source_Quotes
"[Source_Quotes] & "; " & [Notes]" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-09-18 10:20:17

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField "HABITATS - vegetation\Historical_Habitats" Notes "[Notes] &
"Island surrounded by Tidal Marsh or Flat"" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-12-03 15:10:13

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField "HABITATS - vegetation\Historical_Habitats" Habitat_Type "Tidal Flat" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2013-12-03 15:11:21

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.1\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField "HABITATS - vegetation\Historical_Habitats" Habitat_Type "Lagoon" VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2015-08-07 14:53:03

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.2\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

COMMAND ISSUED

CalculateField "HABITAT mapping\WalnutCkHE_Historical_Habitats" Habitat_Type [CROSSWALK] VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

Hide Geoprocessing history ▲

Distribution ►

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT Historical_Habitats ►

* TYPE Feature Class

* ROW COUNT 173

FIELD S_Digitize ►

* ALIAS S_Digitize

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

Hide Field S_Digitize ▲

FIELD S_Interp1 ►

* ALIAS S_Interp1
 * DATA TYPE String
 * WIDTH 254
 * PRECISION 0
 * SCALE 0

Hide Field S_Interp1 ▲

FIELD Loc_Cert ►

* ALIAS Loc_Cert
 * DATA TYPE String
 * WIDTH 3
 * PRECISION 0
 * SCALE 0

Hide Field Loc_Cert ▲

FIELD Shape_Cert ►

* ALIAS Shape_Cert
 * DATA TYPE String
 * WIDTH 3
 * PRECISION 0
 * SCALE 0

Hide Field Shape_Cert ▲

FIELD Habitat_Type ►

* ALIAS Habitat_Type
 * DATA TYPE String
 * WIDTH 100
 * PRECISION 0
 * SCALE 0

Hide Field Habitat_Type ▲

FIELD SHAPE_Length ►

* ALIAS SHAPE_Length
 * DATA TYPE Double
 * WIDTH 8
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

Length of feature in internal units.

DESCRIPTION SOURCE

Esri

DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

Hide Field SHAPE_Length ▲

FIELD Notes2 ►

* ALIAS Notes2
 * DATA TYPE String
 * WIDTH 254
 * PRECISION 0
 * SCALE 0

Hide Field Notes2 ▲

FIELD SHAPE_STLength_1 ►

* ALIAS SHAPE_STLength_1
 * DATA TYPE Double
 * WIDTH 8
 * PRECISION 0
 * SCALE 0

Hide Field SHAPE_STLength_1 ▲

FIELD SHAPE_STLength__ ►

* ALIAS SHAPE_STLength__
 * DATA TYPE Double
 * WIDTH 8
 * PRECISION 0
 * SCALE 0

Hide Field SHAPE_STLength__ ▲

FIELD S_Interp2 ►

* ALIAS S_Interp2
 * DATA TYPE String
 * WIDTH 254
 * PRECISION 0
 * SCALE 0

Hide Field S_Interp2 ▲

FIELD Source_Quotes ►

* ALIAS Source_Quotes
 * DATA TYPE String
 * WIDTH 254
 * PRECISION 0
 * SCALE 0

Hide Field Source_Quotes ▲

FIELD OBJECTID ►

* ALIAS OBJECTID
 * 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.

Hide Field OBJECTID ▲

FIELD SHAPE_STArea__ ►

- * ALIAS SHAPE_STArea__
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

Hide Field SHAPE_STArea__ ▲

FIELD Notes ►

- * ALIAS Notes
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

Hide Field Notes ▲

FIELD Interp_Cert ►

- * ALIAS Interp_Cert
- * DATA TYPE String
- * WIDTH 3
- * PRECISION 0
- * SCALE 0

Hide Field Interp_Cert ▲

FIELD SHAPE_STArea_1 ►

- * ALIAS SHAPE_STArea_1
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

Hide Field SHAPE_STArea_1 ▲

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.

Hide Field SHAPE ▲

FIELD Source_Quotes2 ►

- * ALIAS Source_Quotes2
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

Hide Field Source_Quotes2 ▲

FIELD SHAPE_Area ►

- * ALIAS SHAPE_Area
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Area of feature in internal units squared.

- * DESCRIPTION SOURCE
Esri

- * DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

*Hide Field SHAPE_Area ▲**Hide Details for object Historical_Habitats ▲**Hide Fields ▲***Metadata Details ►**

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME * dataset

* LAST UPDATE 2016-11-10

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
 METADATA STYLE FGDC CSDGM Metadata
 STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2016-05-02 15:40:55
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AUTOMATIC UPDATES
 HAVE BEEN PERFORMED Yes
 LAST UPDATE 2016-11-10 11:32:15

Hide Metadata Details ▲

Metadata Contacts ►

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 ORGANIZATION'S NAME San Francisco Estuary Institute
 CONTACT'S POSITION Associate Environmental Scientist
 CONTACT'S ROLE point of contact

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Hide Contact information ▲

Hide Metadata Contacts ▲

Metadata Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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originators of the data.

For more detail about general historical ecology methods refer to: -- Grossinger, RM, Striplen CJ, Askevold R, Brewster E, Beller EE. 2007. Historical landscape ecology of an urbanized California valley: wetlands and woodlands in the Santa Clara Valley. Landscape Ecology.: 103-120. -- Questions about SFEI data may be directed to the GIS Manager, at [510-746-7334](tel:510-746-7334).

Hide Metadata Constraints ▲

FGDC Metadata (read-only) ▼