
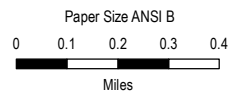




Legend  
 Study Area

DRAFT



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

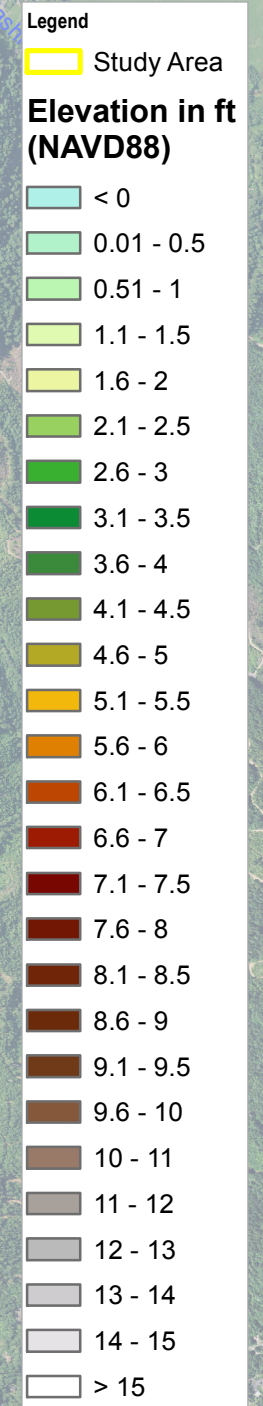
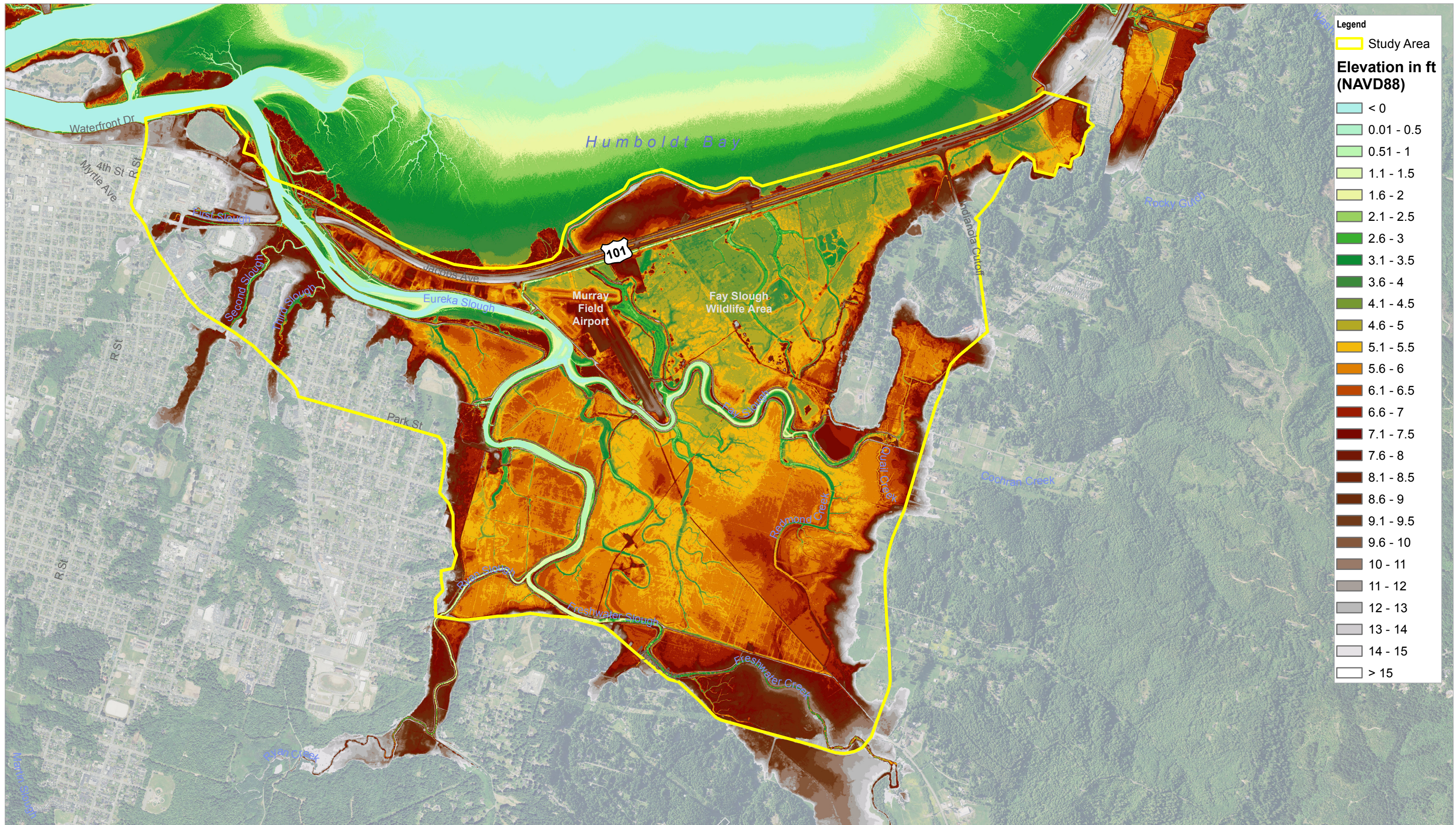
Existing Conditions  
 Study Area

Project No. 11191743  
 Revision No. -  
 Date 04/22/2019

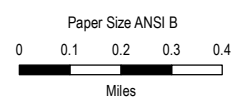
FIGURE 1

N:\US\Eureka\Projects\5611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_001\_StudyArea\_RevB.mxd  
 Print date: 22 Apr 2019 - 13:07

Data source: Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP; Created by: jclark2



DRAFT



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



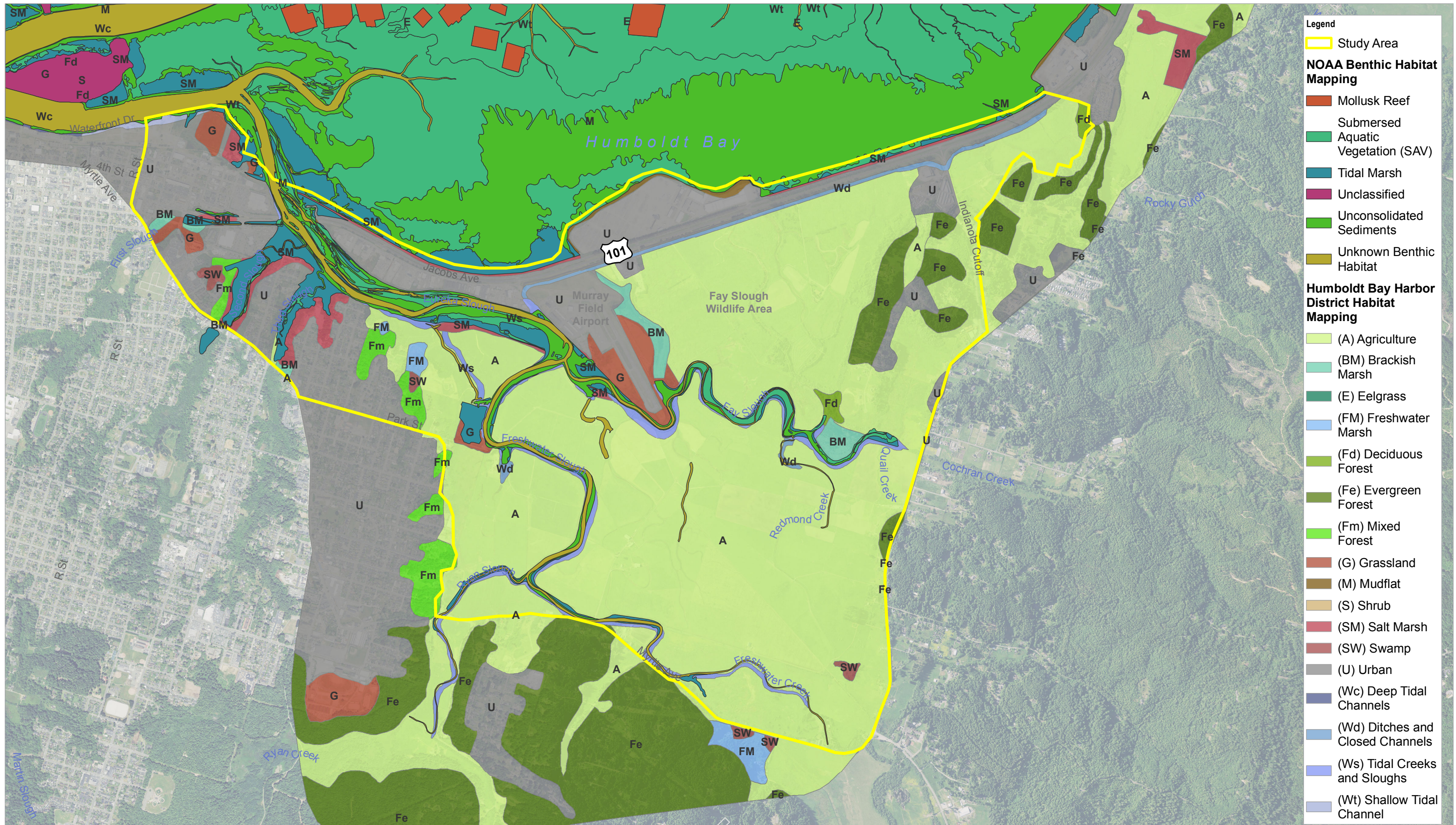
County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

Project No. 11191743  
 Revision No. -  
 Date 04/22/2019

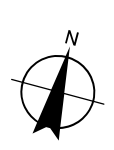
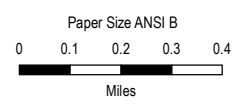
Existing Conditions  
 Elevation

**FIGURE 2**

N:\US\Eureka\Projects\5611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_002\_Elevation\_RevB.mxd  
 Print date: 22 Apr 2019 - 13:11  
 Data source: DEM, NOAA, 2010; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP. Created by: jclark2



- Legend**
- Study Area
- NOAA Benthic Habitat Mapping**
- Mollusk Reef
  - Submersed Aquatic Vegetation (SAV)
  - Tidal Marsh
  - Unclassified
  - Unconsolidated Sediments
  - Unknown Benthic Habitat
- Humboldt Bay Harbor District Habitat Mapping**
- (A) Agriculture
  - (BM) Brackish Marsh
  - (E) Eelgrass
  - (FM) Freshwater Marsh
  - (Fd) Deciduous Forest
  - (Fe) Evergreen Forest
  - (Fm) Mixed Forest
  - (G) Grassland
  - (M) Mudflat
  - (S) Shrub
  - (SM) Salt Marsh
  - (SW) Swamp
  - (U) Urban
  - (Wc) Deep Tidal Channels
  - (Wd) Ditches and Closed Channels
  - (Ws) Tidal Creeks and Sloughs
  - (Wt) Shallow Tidal Channel



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

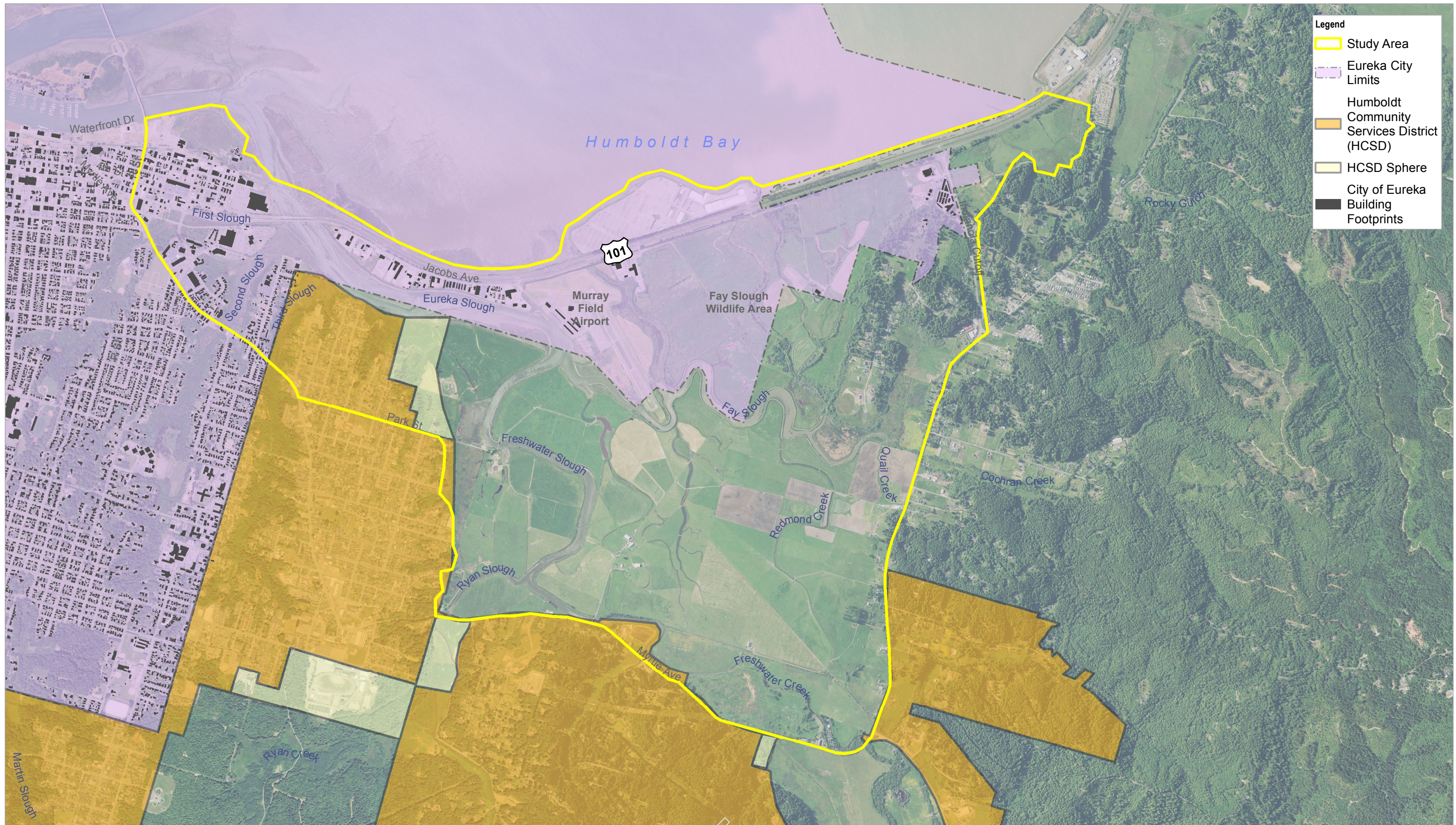
Project No. 11191743  
 Revision No. -  
 Date 04/22/2019

**Existing Conditions  
 Habitat**

**FIGURE 3**

DRAFT

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_003\_Habitat\_RevB.mxd  
 Print date: 22 Apr 2019 - 13:17  
 Data source: Humboldt Bay California Benthic Habitats, NOAA's Ocean Service, Coastal Services Center (CSC), 2009; Habitat types, Humboldt Bay Harbor District, 1990; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP. Created by: jdark2



**Legend**

- Study Area
- Eureka City Limits
- Humboldt Community Services District (HCS)
- HCS Sphere
- City of Eureka Building Footprints

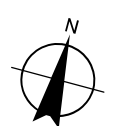
DRAFT

Paper Size ANSI B

0 0.1 0.2 0.3 0.4

Miles

Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

**Existing Conditions  
 Municipal Boundaries**

Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

**FIGURE 4**

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_004\_MunicipalBoundaries\_RevC.mxd  
 Print date: 23 Apr 2019 - 09:52

Data source: City Boundary, City of Eureka, 4/3/2019; Humboldt Community Services District boundary, Humboldt County Community Development Services, 2004; Building Footprints, City of Eureka, May 2017; Study Area boundary, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery 2016, NAIP. - Created by: jdar2



**Legend**

- Study Area
- Fay Slough Wildlife Area
- Parcels (>50 acres and/or owner of 3+ parcels)
- Parcels (<50 acres and/or owner of <3 parcels)

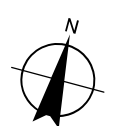
DRAFT

Paper Size ANSI B

0 0.1 0.2 0.3 0.4

Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



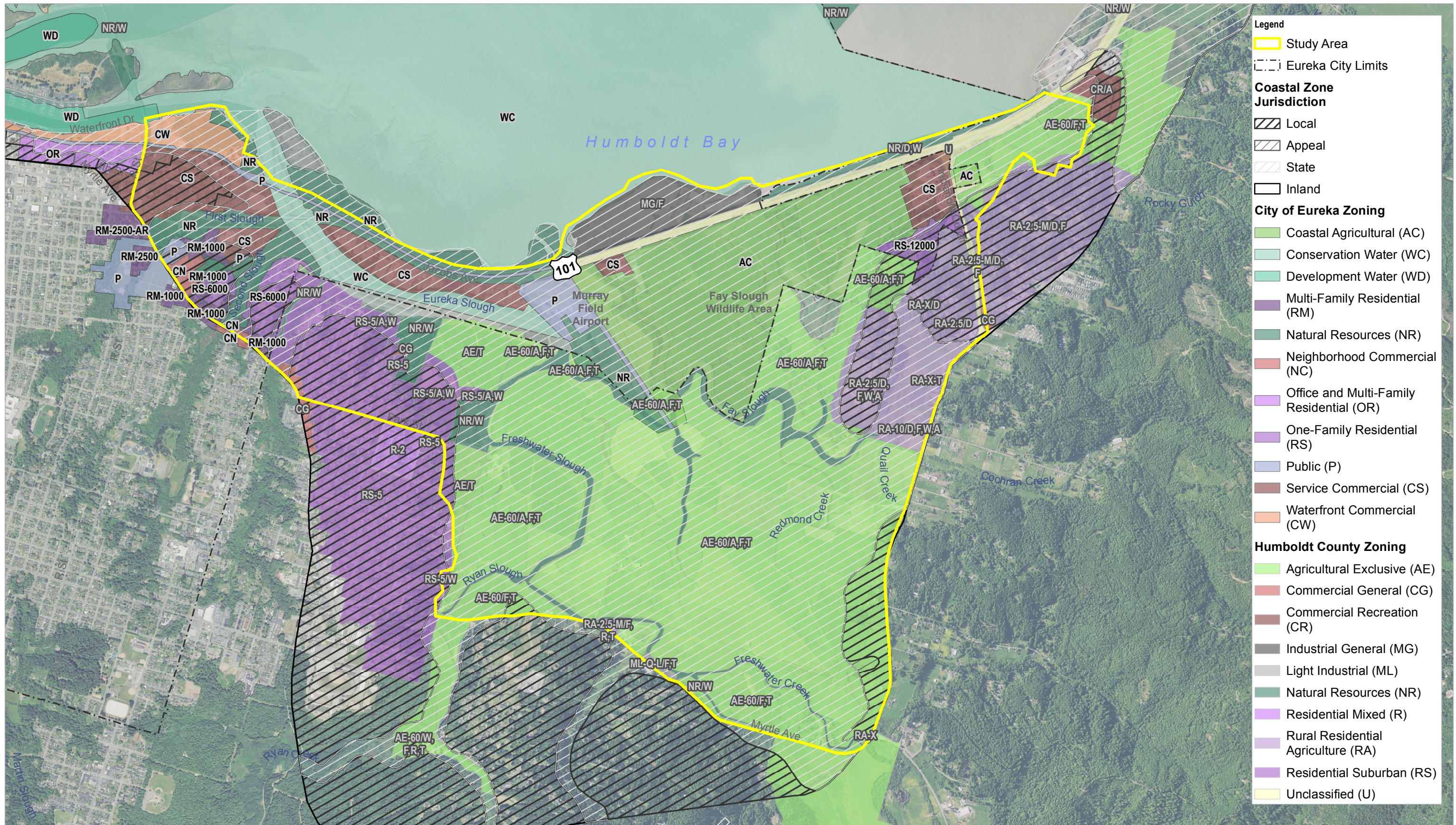
**County of Humboldt**  
**Humboldt Bay Sea Level Rise Adaptation Plan**

**Existing Conditions**  
**Ownership**

Project No. 11191743  
Revision No. -  
Date 04/22/2019

**FIGURE 5**

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_005\_Ownership\_RevB.mxd Print date: 22 Apr 2019 - 13:23 Data source: Parcel Boundaries, Humboldt County, 3/5/2019; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP; - Created by: jclark2



- Legend**
- Study Area
  - Eureka City Limits
- Coastal Zone Jurisdiction**
- Local
  - Appeal
  - State
  - Inland
- City of Eureka Zoning**
- Coastal Agricultural (AC)
  - Conservation Water (WC)
  - Development Water (WD)
  - Multi-Family Residential (RM)
  - Natural Resources (NR)
  - Neighborhood Commercial (NC)
  - Office and Multi-Family Residential (OR)
  - One-Family Residential (RS)
  - Public (P)
  - Service Commercial (CS)
  - Waterfront Commercial (CW)
- Humboldt County Zoning**
- Agricultural Exclusive (AE)
  - Commercial General (CG)
  - Commercial Recreation (CR)
  - Industrial General (MG)
  - Light Industrial (ML)
  - Natural Resources (NR)
  - Residential Mixed (R)
  - Rural Residential Agriculture (RA)
  - Residential Suburban (RS)
  - Unclassified (U)

Paper Size ANSI B

Miles

Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

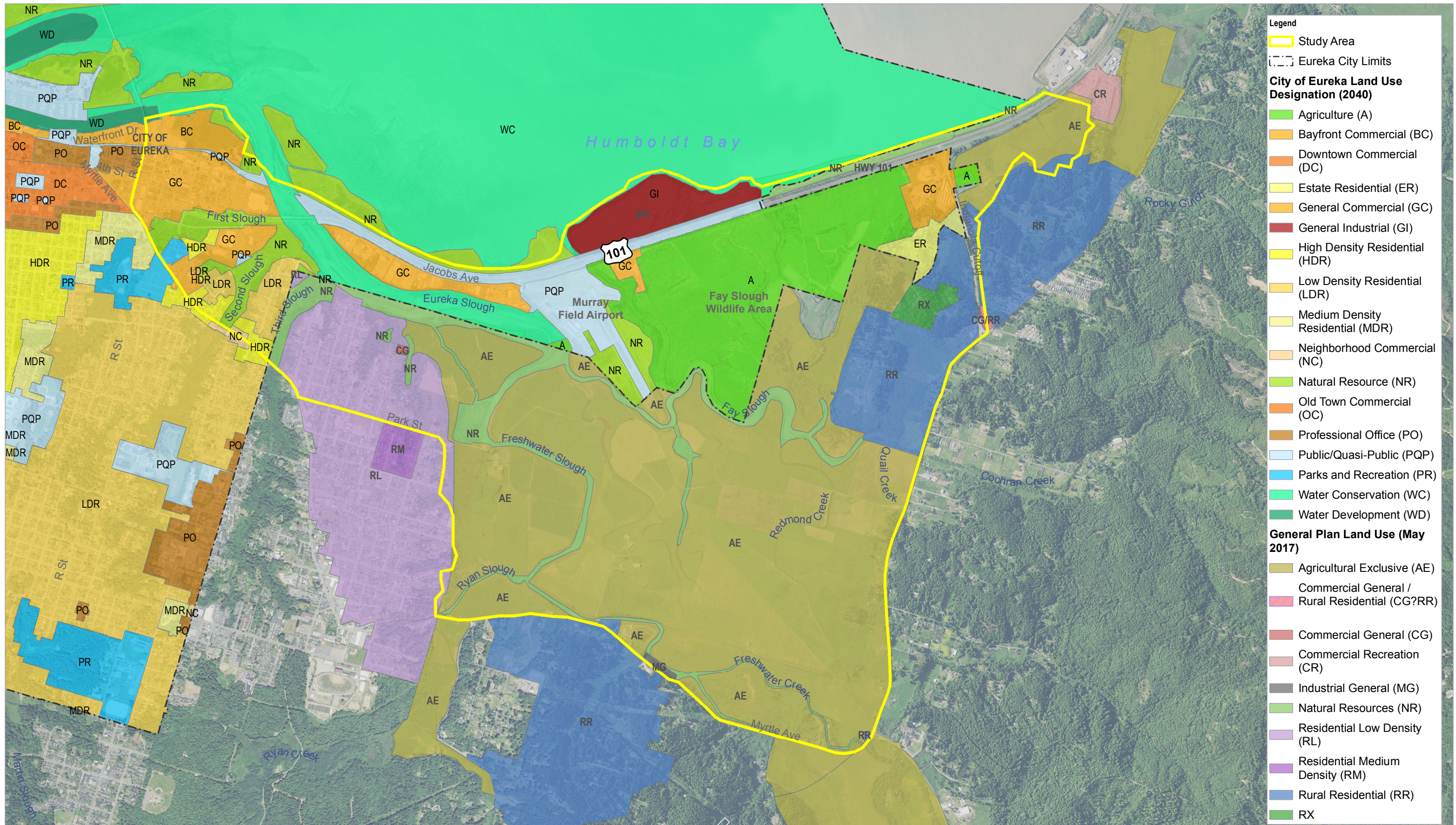
County of Humboldt  
Humboldt Bay Sea Level Rise Adaptation Plan

**Existing Conditions Zoning**

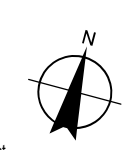
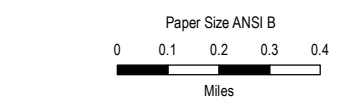
Project No. 11191743  
Revision No. -  
Date 04/23/2019

**FIGURE 6**

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_006\_Zoning\_RevB.mxd Data source: Zoning, City of Eureka, 8/22/2016; Zoning, County of Humboldt, 10/3/2017; City Boundary, City of Eureka, 4/3/2019; Coastal Zone boundary, Humboldt County, 2015; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP. Created by: jdark2  
Print date: 23 Apr 2019 - 08:31



- Legend**
- Study Area
  - Eureka City Limits
- City of Eureka Land Use Designation (2040)**
- Agriculture (A)
  - Bayfront Commercial (BC)
  - Downtown Commercial (DC)
  - Estate Residential (ER)
  - General Commercial (GC)
  - General Industrial (GI)
  - High Density Residential (HDR)
  - Low Density Residential (LDR)
  - Medium Density Residential (MDR)
  - Neighborhood Commercial (NC)
  - Natural Resource (NR)
  - Old Town Commercial (OC)
  - Professional Office (PO)
  - Public/Quasi-Public (PQP)
  - Parks and Recreation (PR)
  - Water Conservation (WC)
  - Water Development (WD)
- General Plan Land Use (May 2017)**
- Agricultural Exclusive (AE)
  - Commercial General / Rural Residential (CG?RR)
  - Commercial General (CG)
  - Commercial Recreation (CR)
  - Industrial General (MG)
  - Natural Resources (NR)
  - Residential Low Density (RL)
  - Residential Medium Density (RM)
  - Rural Residential (RR)
  - RX



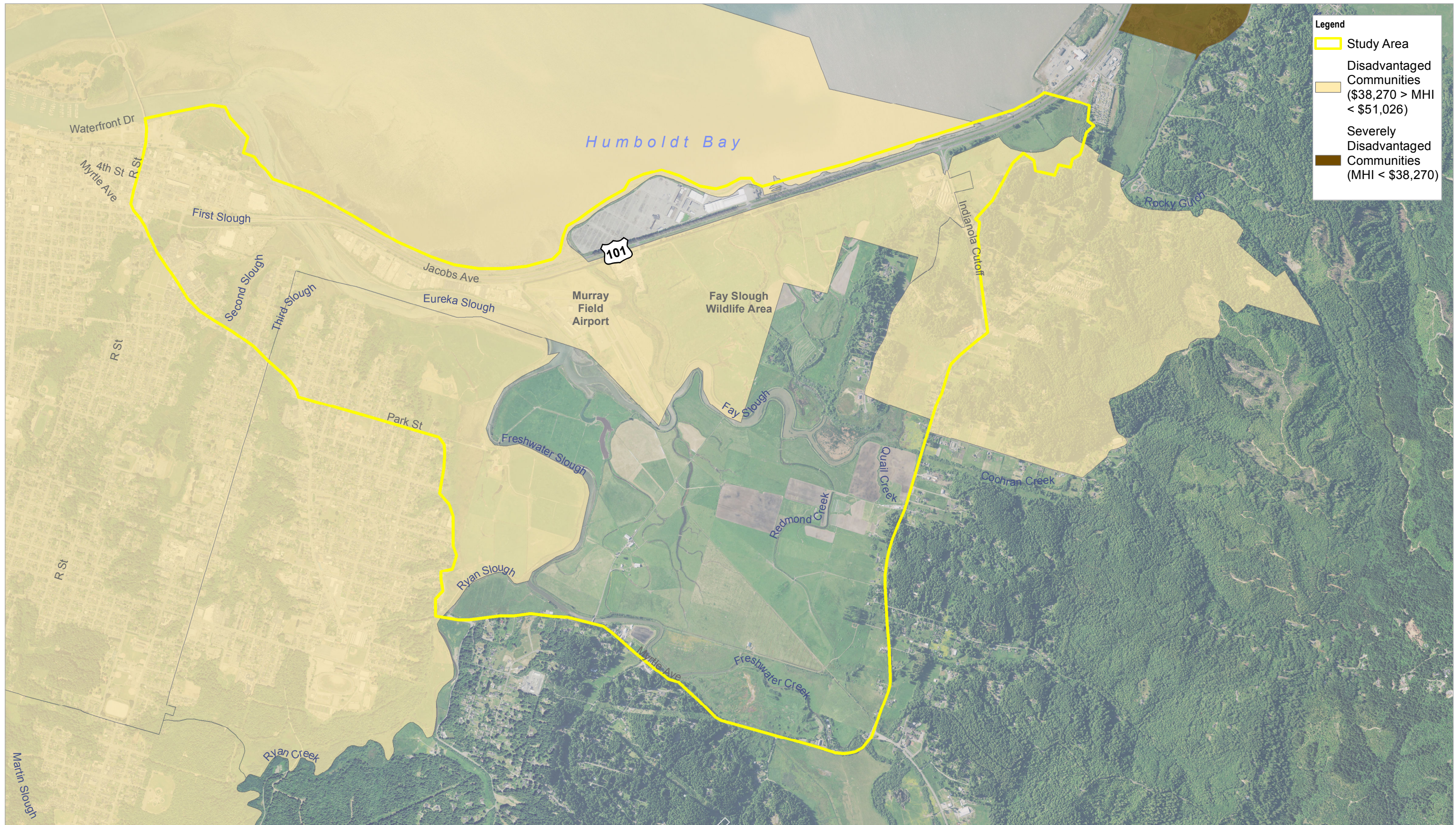
County of Humboldt  
Humboldt Bay Sea Level Rise Adaptation Plan

Project No. 11191743  
Revision No. -  
Date 04/22/2019

**Existing Conditions  
Land Use**

**FIGURE 7**

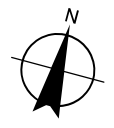
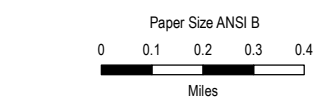
N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_007\_LandUse\_RevB.mxd  
Print date: 22 Apr 2019 - 16:42  
Data source: Land Use, Humboldt County, May 2017; Land Use, City of Eureka, April 2019; City Boundary, City of Eureka, 4/3/2019; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP. Created by: jplark2



**Legend**

- Study Area
- Disadvantaged Communities (\$38,270 > MHI < \$51,026)
- Severely Disadvantaged Communities (MHI < \$38,270)

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Map Projection: Lambert Conformal Conic  
Horizontal Datum: North American 1983  
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



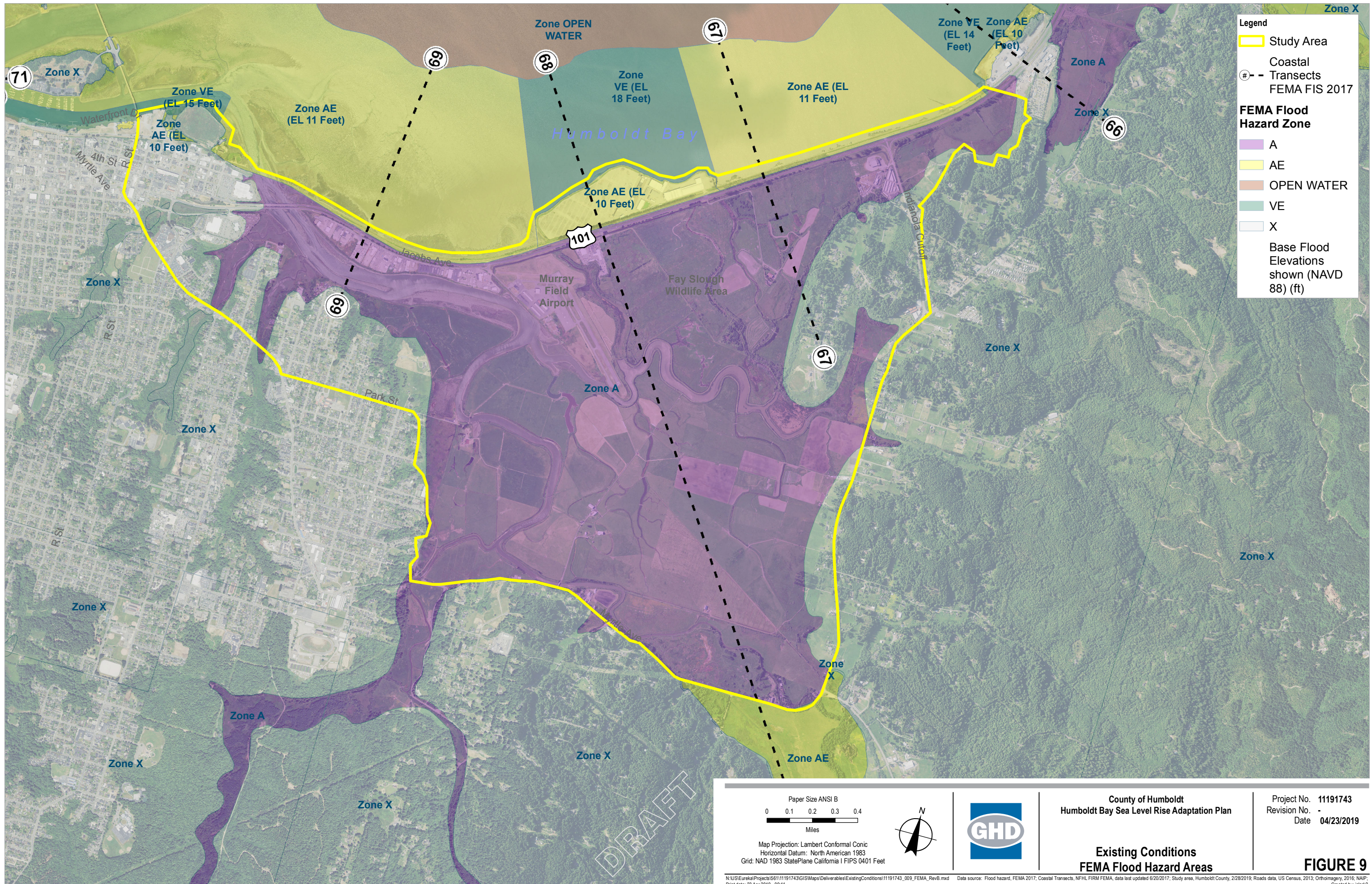
**County of Humboldt**  
**Humboldt Bay Sea Level Rise Adaptation Plan**

Project No. 11191743  
Revision No. -  
Date 04/22/2019

**Existing Conditions**  
**Disadvantaged Communities (Places)**

**FIGURE 8**

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_008\_DAC\_Rev8.mxd Print date: 22 Apr 2019 - 16:43 Data source: Disadvantaged Communities, CalWater, 2016; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP; Created by: jclar2



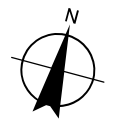
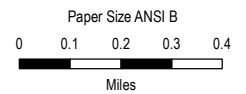
**Legend**

- Study Area
- Coastal
- Transects
- FEMA FIS 2017

**FEMA Flood Hazard Zone**

- A
- AE
- OPEN WATER
- VE
- X

Base Flood Elevations shown (NAVD 88) (ft)



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

**Existing Conditions  
 FEMA Flood Hazard Areas**

**FIGURE 9**

DRAFT

N:\US\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_009\_FEMA\_RevB.mxd Data source: Flood hazard, FEMA 2017; Coastal Transects, NFHL FIRM FEMA, data last updated 6/20/2017; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Orthomogery, 2016; NAIP: Print date: 23 Apr 2019 - 09:11 Created by: plark2

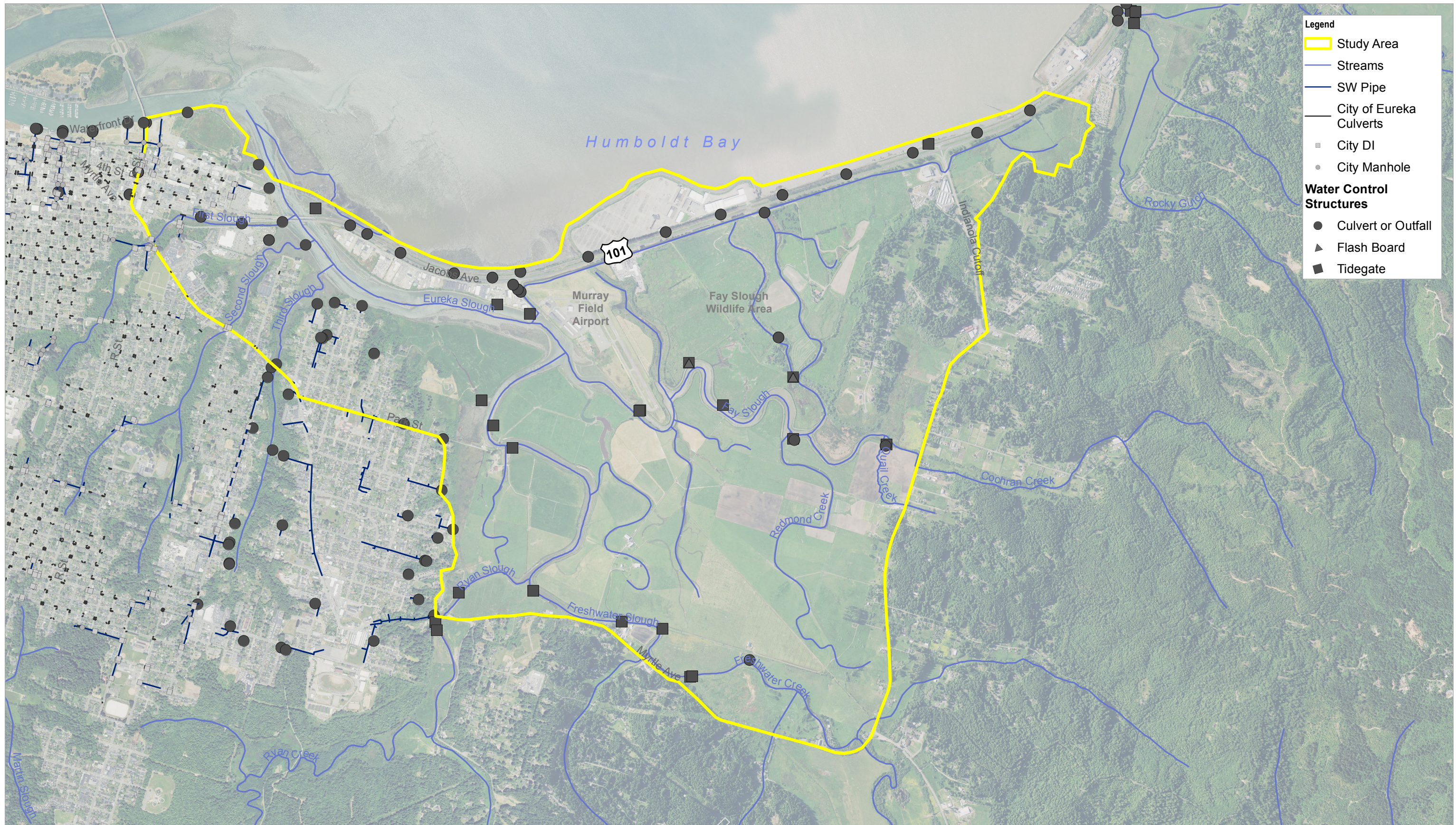


- Legend**
- Study Area
  - Bus Stop
  - Multi-Region Bike Routes
  - Humboldt County Bike Routes
  - Eureka Bike Routes
  - Arcata Bike Routes
  - Eureka Transit System (Bus Route)
  - Redwood Transit System (Bus Route)
  - Highway
  - Roadway

<p style="text-align: center;">Paper Size ANSI B</p> <p style="text-align: center;">0 0.1 0.2 0.3 0.4</p> <p style="text-align: center;">Miles</p> <p style="font-size: small;">Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet</p>			<p><b>County of Humboldt</b> Humboldt Bay Sea Level Rise Adaptation Plan</p>	<p>Project No. 11191743 Revision No. - Date 04/22/2019</p>
<p><b>Existing Conditions Transportation Facilities</b></p>				<p><b>FIGURE 10</b></p>

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_010\_Transportation\_RevB.mxd      Data source: Bike Routes, HCAOG, 2017; Transit routes, HCAOG, 2017; Bus Stops, digitized on 3/27/2019 by GHD based on Google Maps features; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP; - Created by: jclark2  
Print date: 22 Apr 2019 - 16:48





**Legend**

- Study Area
- Streams
- SW Pipe
- City of Eureka Culverts
- City DI
- City Manhole

**Water Control Structures**

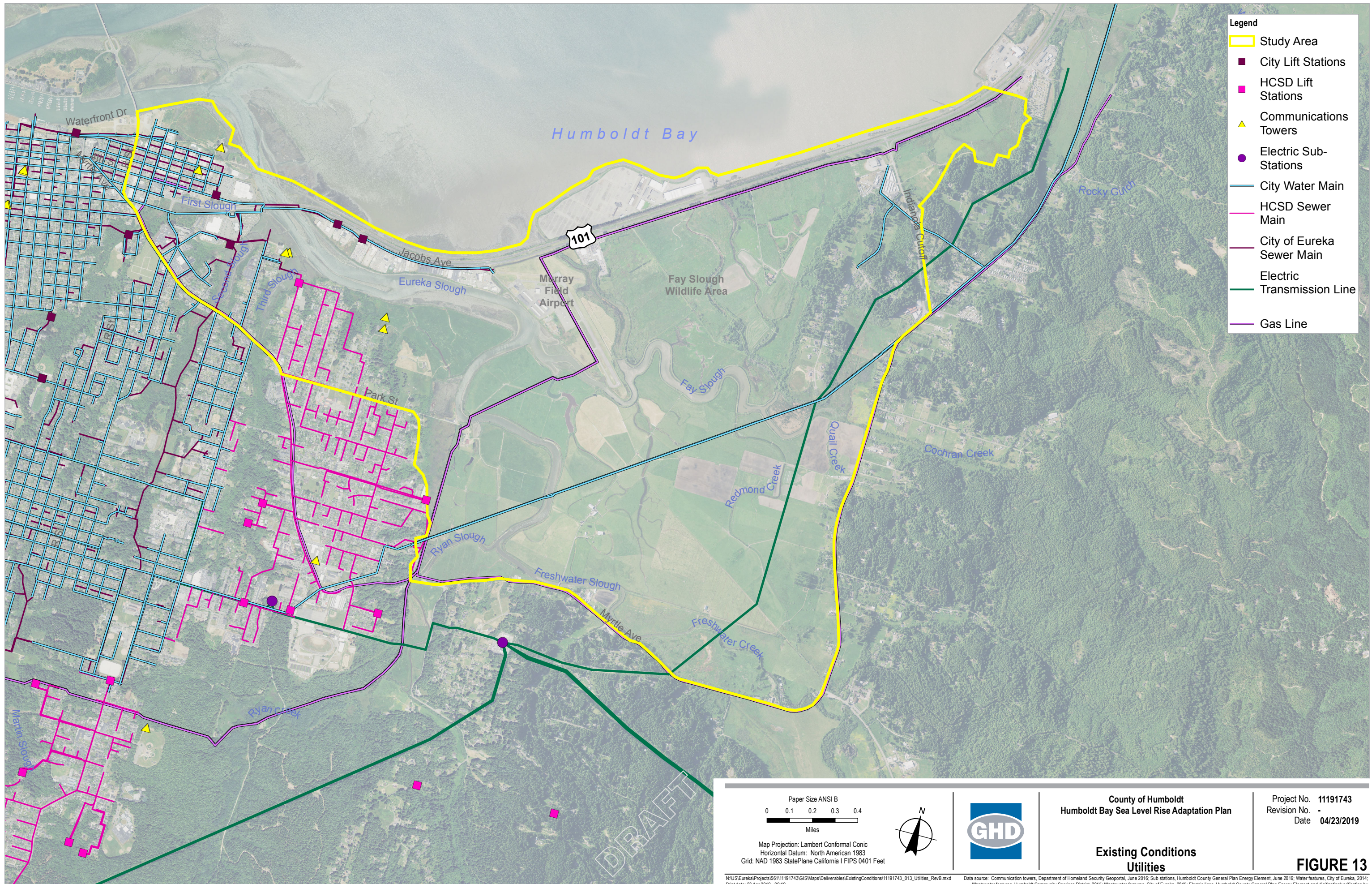
- Culvert or Outfall
- Flash Board
- Tidegate

DRAFT

<p>Paper Size ANSI B</p> <p>Miles</p> <p>Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet</p>			<p><b>County of Humboldt</b> <b>Humboldt Bay Sea Level Rise Adaptation Plan</b></p> <p><b>Existing Conditions</b> <b>Stormwater Utilities</b></p>	<p>Project No. <b>11191743</b> Revision No. <b>-</b> Date <b>04/23/2019</b></p>
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**FIGURE 12**

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_012\_SWUtilities\_RevB.mxd Data source: Water Control Structures, City of Eureka Sea Level Rise Assets Vulnerability and Risk Assessment Report by Aldaron Laird and Trinity Associates, June 2016; Stormwater Features, City of Eureka, 2016; Stormwater Features Myrtleown, Humboldt Community Services District, 2015; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP. Created by: jclark2





**Legend**

- Study Area
- Cleanup Program Site (Open)
- LUST Cleanup Sure (Open)

DRAFT

<p style="text-align: center;">Paper Size ANSI B</p> <div style="text-align: center;"> <p>Miles</p> </div> <p style="font-size: 8px;">Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet</p>			<p><b>County of Humboldt</b> Humboldt Bay Sea Level Rise Adaptation Plan</p> <p><b>Existing Conditions</b> Open Contaminated Sites</p>	<p>Project No. 11191743 Revision No. - Date 04/22/2019</p>
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**FIGURE 14**

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_014\_ContaminatedSites\_RevB.mxd  
Print date: 22 Apr 2019 - 16:53  
Data source: Contaminated Sites, CWRCB Geotracker, March 2019; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP. Created by: jplark2



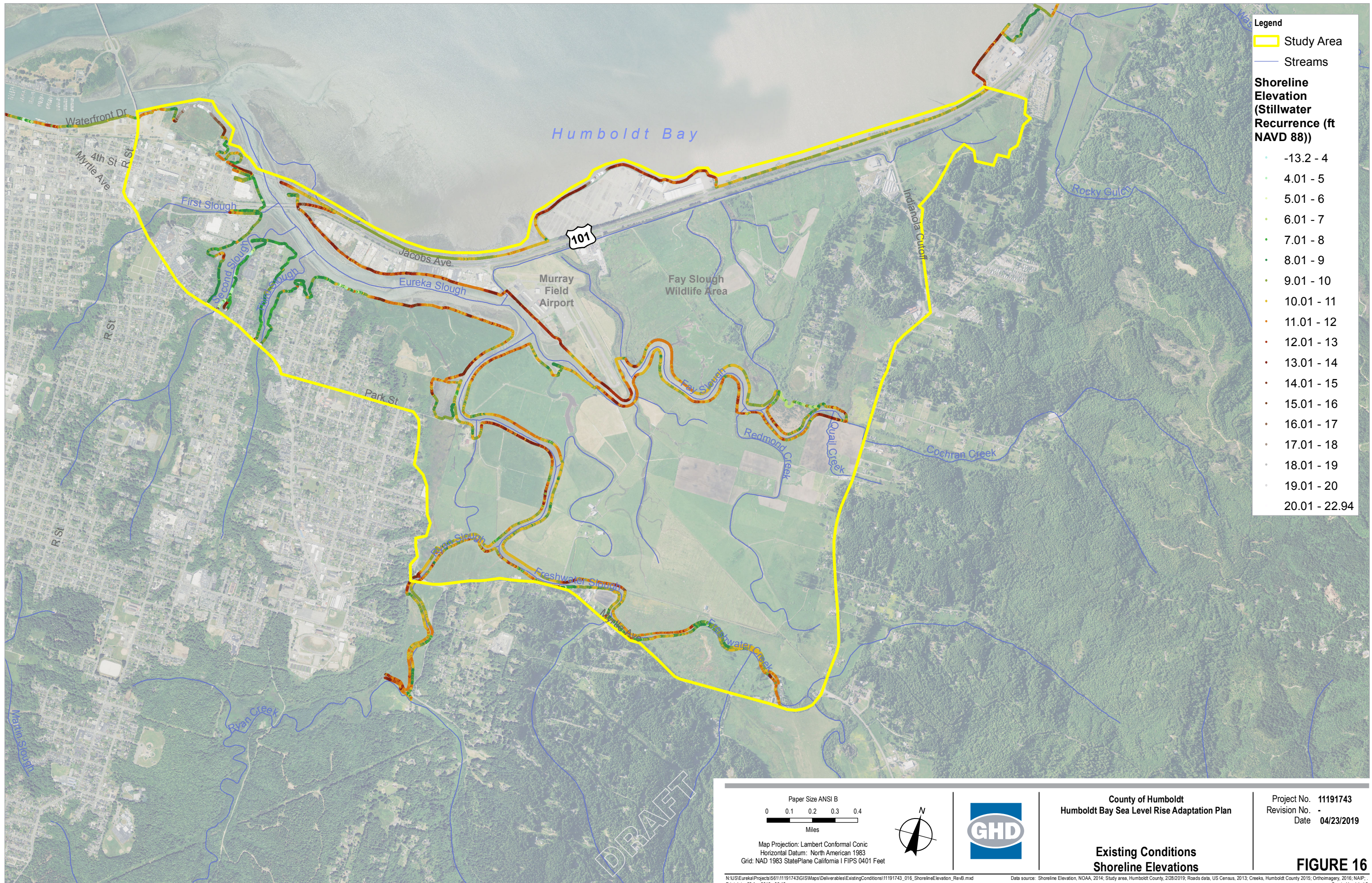
**Legend**

- Study Area
- Shoreline Cover Type**
- Asphalt; Concrete
- Exposed
- Rock; Rock/Concrete
- Vegetated
- Wood
- Streams

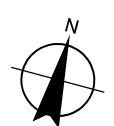
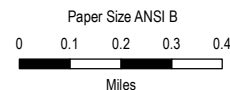
DRAFT

<p>Paper Size ANSI B</p> <p>0 0.1 0.2 0.3 0.4</p> <p>Miles</p> <p>Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet</p>			<p>County of Humboldt Humboldt Bay Sea Level Rise Adaptation Plan</p> <p><b>Existing Conditions Shoreline Cover Type</b></p>	<p>Project No. 11191743 Revision No. - Date 04/22/2019</p>
<p><small>N:\US\Eureka\Projects\56111191743\GIS\Maps\Deliverables\ExistingConditions\11191743_015_Shoreline_RevB.mxd Print date: 22 Apr 2019 - 16:59</small></p>			<p><small>Data source: Shoreline Cover Type, Humboldt Bay Shoreline Inventory Mapping and Sea Level Rise Vulnerability Assessment, January 2013; Humboldt County, 2/28/2019; Roads data, US Census; Creeks, Humboldt County 2015; Orthomagey, 2016; NAIP. Created by: jclark2</small></p>	

**FIGURE 15**



- Legend**
- Study Area
  - Streams
- Shoreline Elevation (Stillwater Recurrence (ft NAVD 88))**
- -13.2 - 4
  - 4.01 - 5
  - 5.01 - 6
  - 6.01 - 7
  - 7.01 - 8
  - 8.01 - 9
  - 9.01 - 10
  - 10.01 - 11
  - 11.01 - 12
  - 12.01 - 13
  - 13.01 - 14
  - 14.01 - 15
  - 15.01 - 16
  - 16.01 - 17
  - 17.01 - 18
  - 18.01 - 19
  - 19.01 - 20
  - 20.01 - 22.94



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

**Existing Conditions  
 Shoreline Elevations**

Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

**FIGURE 16**

N:\US\Eureka\Projects\5611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_016\_ShorelineElevation\_RevB.mxd  
 Print date: 23 Apr 2019 - 09:42  
 Data source: Shoreline Elevation, NOAA, 2014; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP; -  
 Created by: jclark2



**Legend**

- Study Area
- Streams

**Shoreline Elevation  
(Stillwater Recurrence  
(ft NAVD 88))**

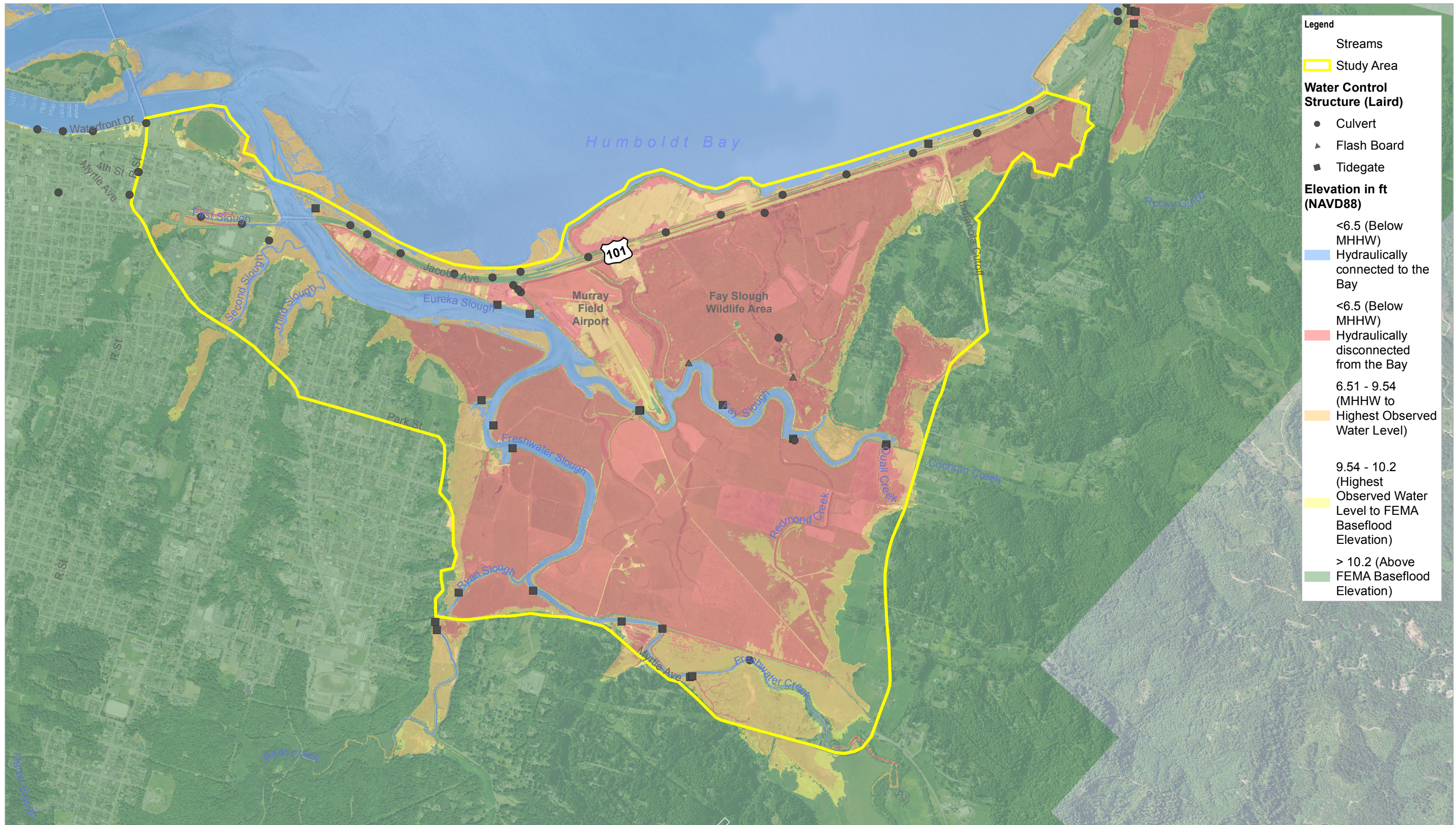
- <6.5 (Below MHHW)
- 6.51 - 9.54 (MHHW to Highest Observed Water Level)
- 9.54 - 10.2 (Highest Observed Water Level)
- > 10.2 (Above FEMA Baseflood Elevation)

DRAFT

<p>Paper Size ANSI B</p> <p>Miles</p> <p>Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet</p>			<p>County of Humboldt Humboldt Bay Sea Level Rise Adaptation Plan</p> <p><b>Existing Conditions Shoreline Elevations Relative to Tidal Datums</b></p>	<p>Project No. 11191743 Revision No. - Date 04/23/2019</p>
<p><b>FIGURE 17</b></p>				

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_017\_ShorelineElevationTidal\_Rev8.mxd  
Print date: 23 Apr 2019 - 08:20

Data source: Shoreline elevation, NOAA, 2014; Tidal Datums, Humboldt Bay Trail South Sea Level Rise Vulnerability and Adaptation Report, June 2016; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016, NAIP. Created by: jdkr2



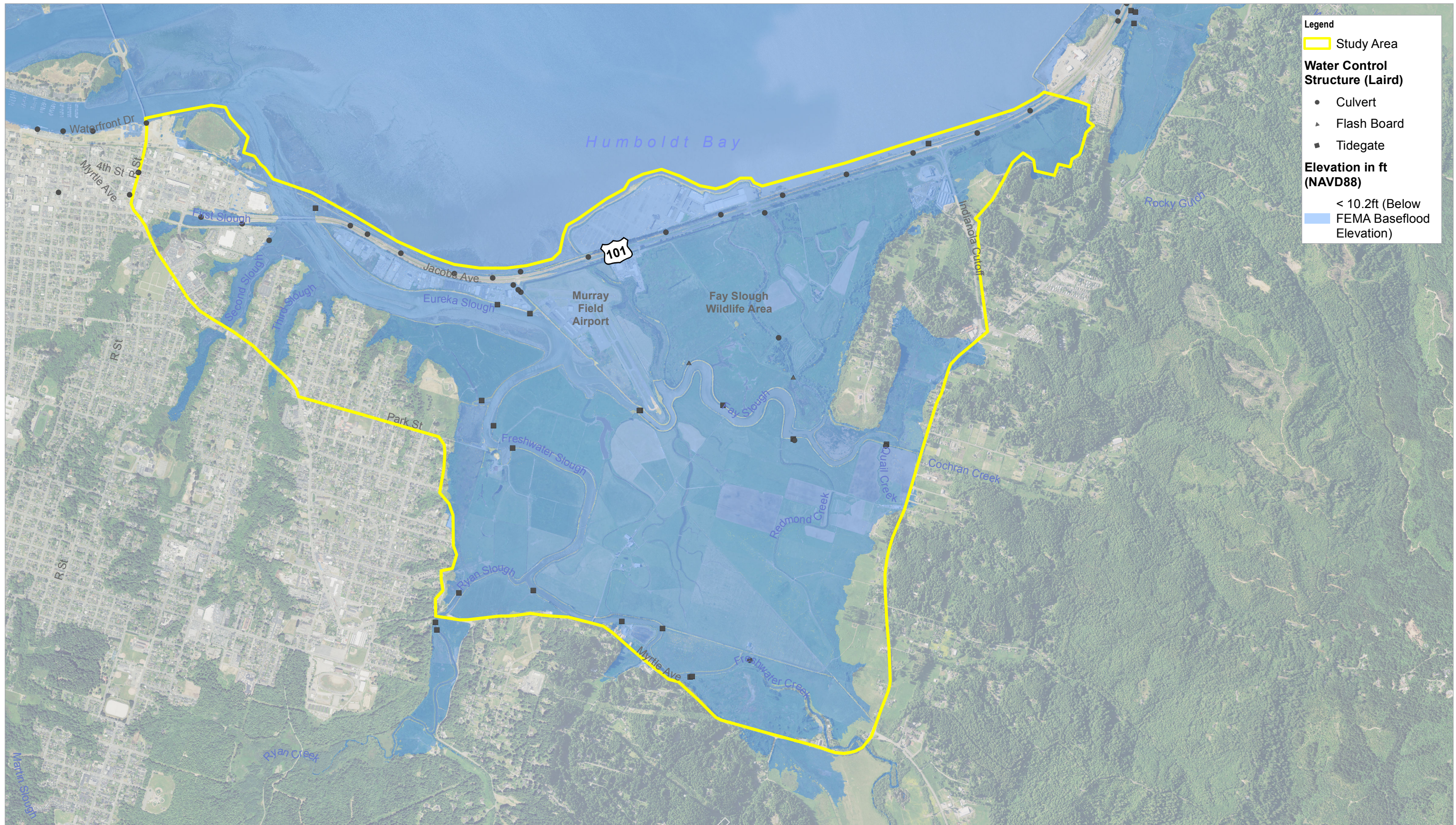
**Legend**

- Streams
- Study Area
- Water Control Structure (Laird)**
  - Culvert
  - Flash Board
  - Tidegate
- Elevation in ft (NAVD88)**
  - <6.5 (Below MHHW)
  - Hydraulically connected to the Bay
  - <6.5 (Below MHHW)
  - Hydraulically disconnected from the Bay
  - 6.51 - 9.54 (MHHW to Highest Observed Water Level)
  - 9.54 - 10.2 (Highest Observed Water Level to FEMA Baseflood Elevation)
  - > 10.2 (Above FEMA Baseflood Elevation)

DRAFT

<p>Paper Size ANSI B</p> <p>Miles</p>			<p>County of Humboldt Humboldt Bay Sea Level Rise Adaptation Plan</p>	<p>Project No. 11191743 Revision No. - Date 04/23/2019</p>
<p>Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet</p>			<p><b>Existing Conditions Tidal Elevations</b></p>	<p><b>FIGURE 18</b></p>

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_018\_TidalElevation\_Rev6.mxd Data source: Water Control Structures, City of Eureka Sea Level Rise Assets Vulnerability and Risk Assessment Report by Aldaron Laird and Trinity Associates, June 2016; Digital Elevation Model, NOAA, 2010; Tidal values, NOAA NOS Station 9148767; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP. Created by: jlar2  
Print date: 23 Apr 2019 - 08:31



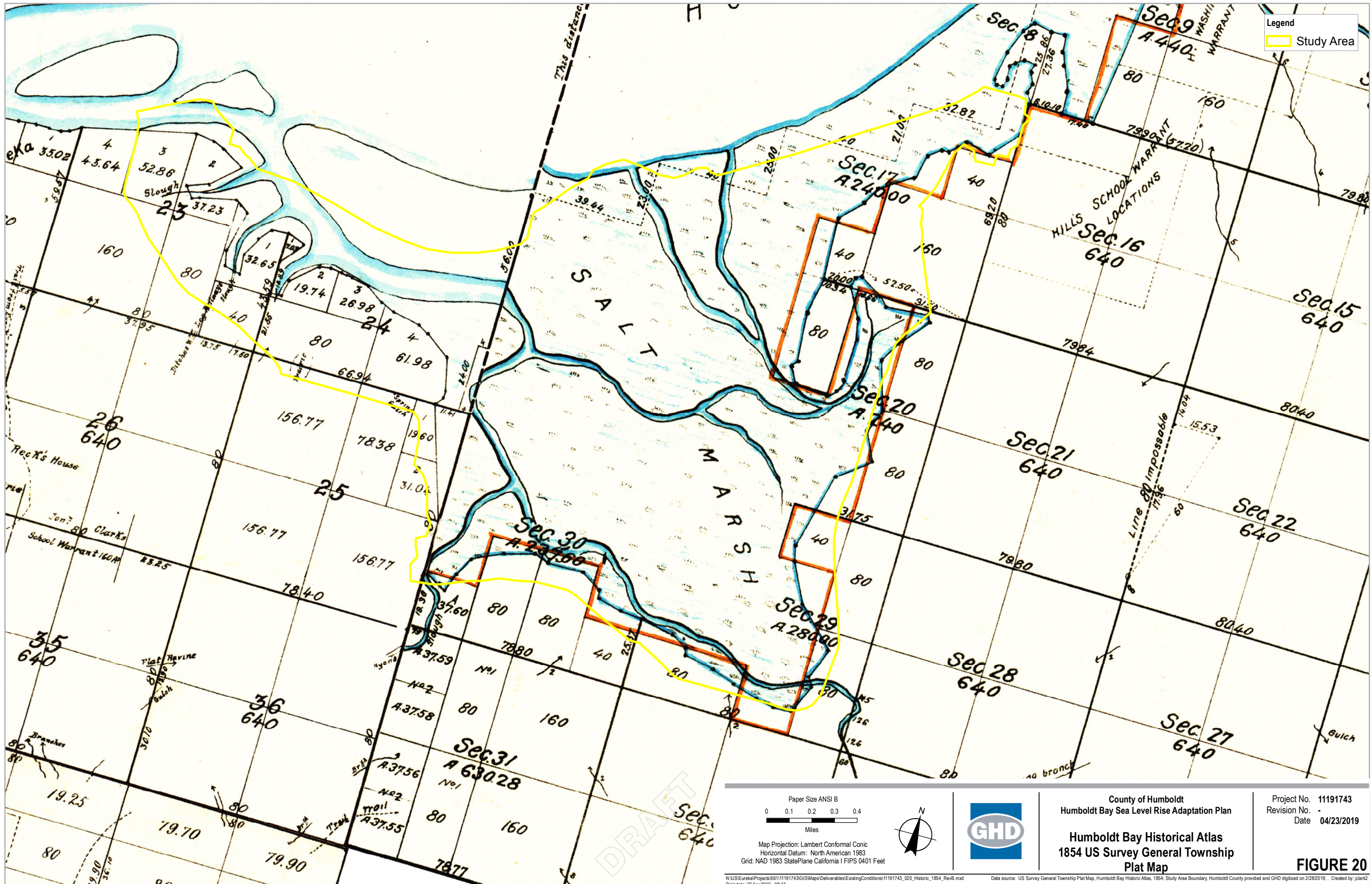
**Legend**

- Study Area
- Water Control Structure (Laird)**
  - Culvert
  - ▲ Flash Board
  - Tidegate
- Elevation in ft (NAVD88)**
  - < 10.2ft (Below FEMA Baseflood Elevation)

DRAFT

<p style="text-align: center;">Paper Size ANSI B</p> <p style="text-align: center;">0 0.1 0.2 0.3 0.4</p> <p style="text-align: center;">Miles</p> <p style="font-size: 24px; font-weight: bold;">N</p> <p style="text-align: center;">Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet</p>		<p><b>County of Humboldt</b> <b>Humboldt Bay Sea Level Rise Adaptation Plan</b></p> <p><b>Existing Conditions</b> <b>Tidal Elevations Below 10.2 Feet</b></p>	<p>Project No. <b>11191743</b> Revision No. - Date <b>04/23/2019</b></p>
FIGURE 19			

N:\US\Eureka\Projects\5611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_019\_TidalElevation\_Below10.2\_RevB.mxd Data source: Water Control Structures, City of Eureka Sea Level Rise Assets Vulnerability and Risk Assessment Report by Aidaron Laird and Trinity Associates, June 2016; Digital Elevation Model, NOAA, 2010; Tidal values, Humboldt Bay Trail South Sea Level Rise Vulnerability and Adaptation Report, June 2018; Study area, Humboldt County, 2/28/2019; Roads data, US Census, 2013; Creeks, Humboldt County 2015; Orthoimagery, 2016; NAIP. Created by: jclark



Legend  
 Study Area

Paper Size ANSI B  
 0 0.1 0.2 0.3 0.4  
 Miles

Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



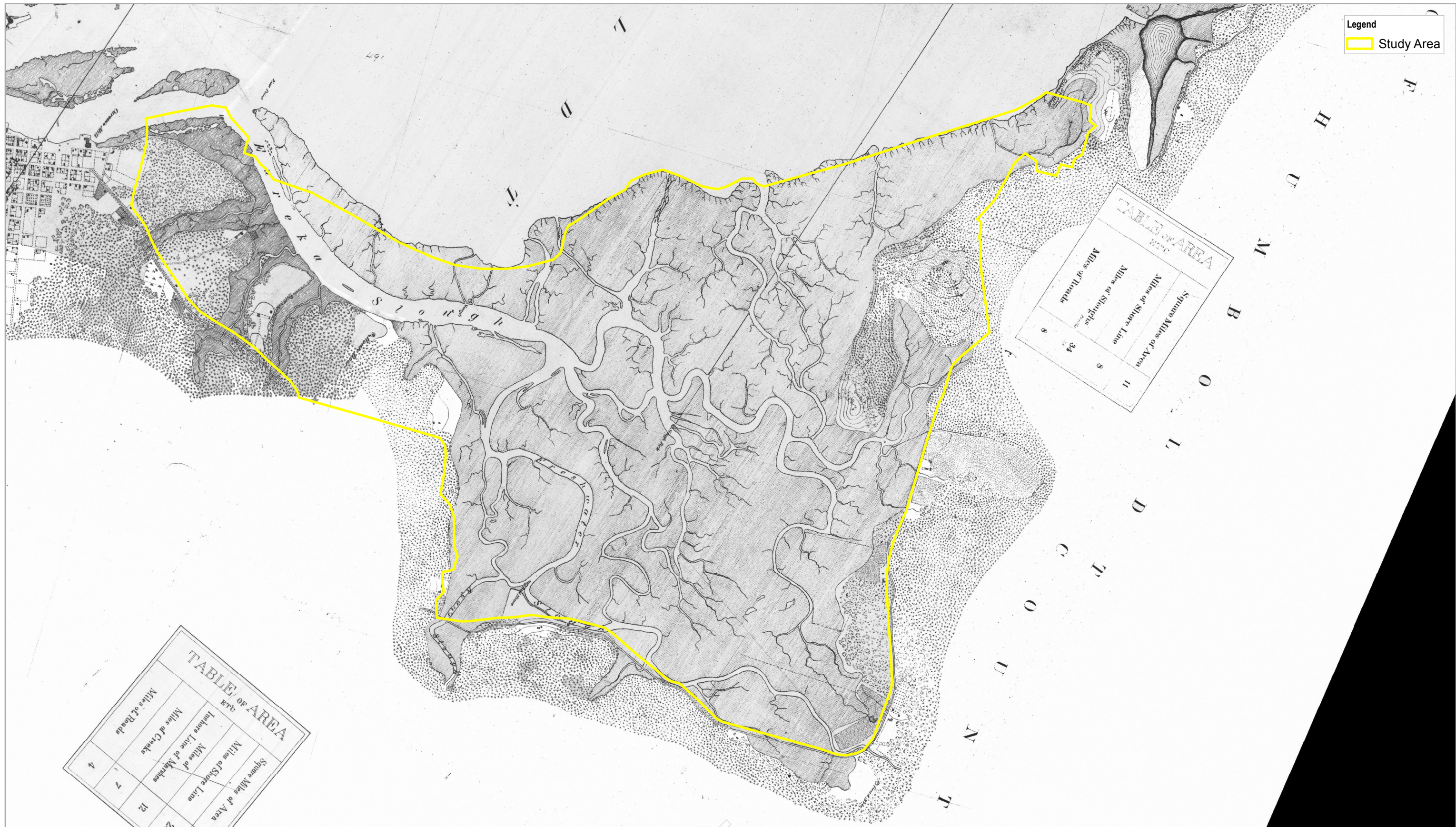
County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

Humboldt Bay Historical Atlas  
 1854 US Survey General Township  
 Plat Map

Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

FIGURE 20

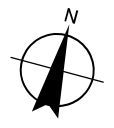
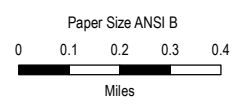
N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_020\_Historic\_1854\_Rev6.mxd Print date: 23 Apr 2019 - 08:47 Data source: US Survey General Township Plat Map, Humboldt Bay Historic Atlas, 1854; Study Area Boundary, Humboldt County provided and GHD digitized on 2/28/2019. Created by: jclark2



Legend  
 Study Area

TABLE OF AREA 1876		
Square Miles of Area	9	
Miles of Shore Line	24	
Miles of Creeks	12	
Miles of Marshes	7	
Miles of Roads	4	

TABLE OF AREA 1876		
Square Miles of Area	11	
Miles of Shore Line	8	
Miles of Roads	8	
Miles of Marshes	34	



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

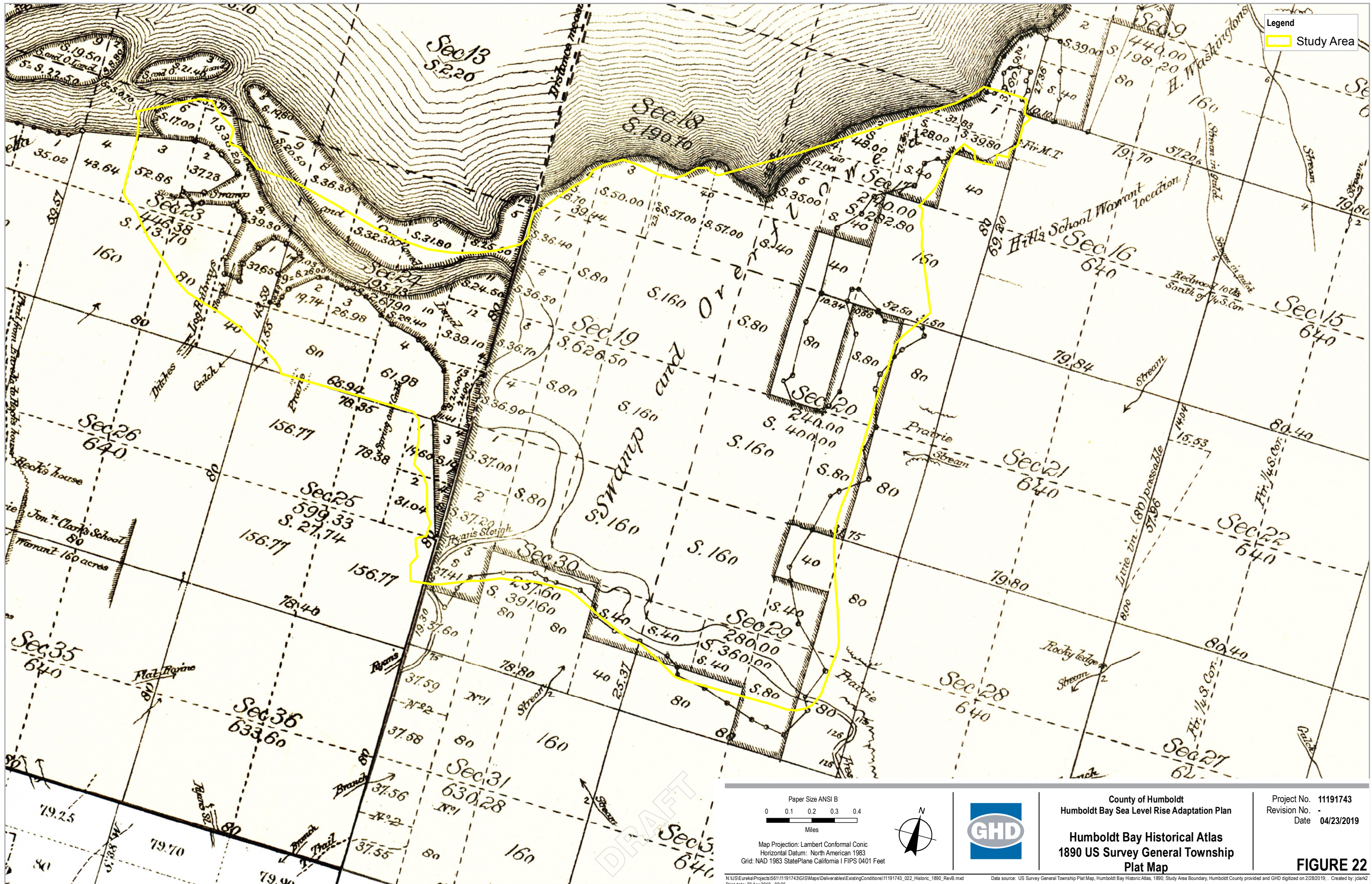
Humboldt Bay Historical Atlas  
 1870 US Coast Survey

Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

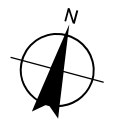
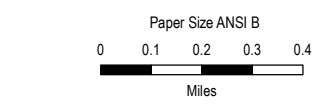
FIGURE 21

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_021\_Historic\_1870\_Rev6.mxd  
 Print date: 23 Apr 2019 - 09:23

Data source: US Coast Survey, Humboldt Bay Historic Atlas, 1870; Study Area Boundary, Humboldt County provided and GHD digitized on 2/28/2019. Created by: jdark2



Legend  
 Study Area



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

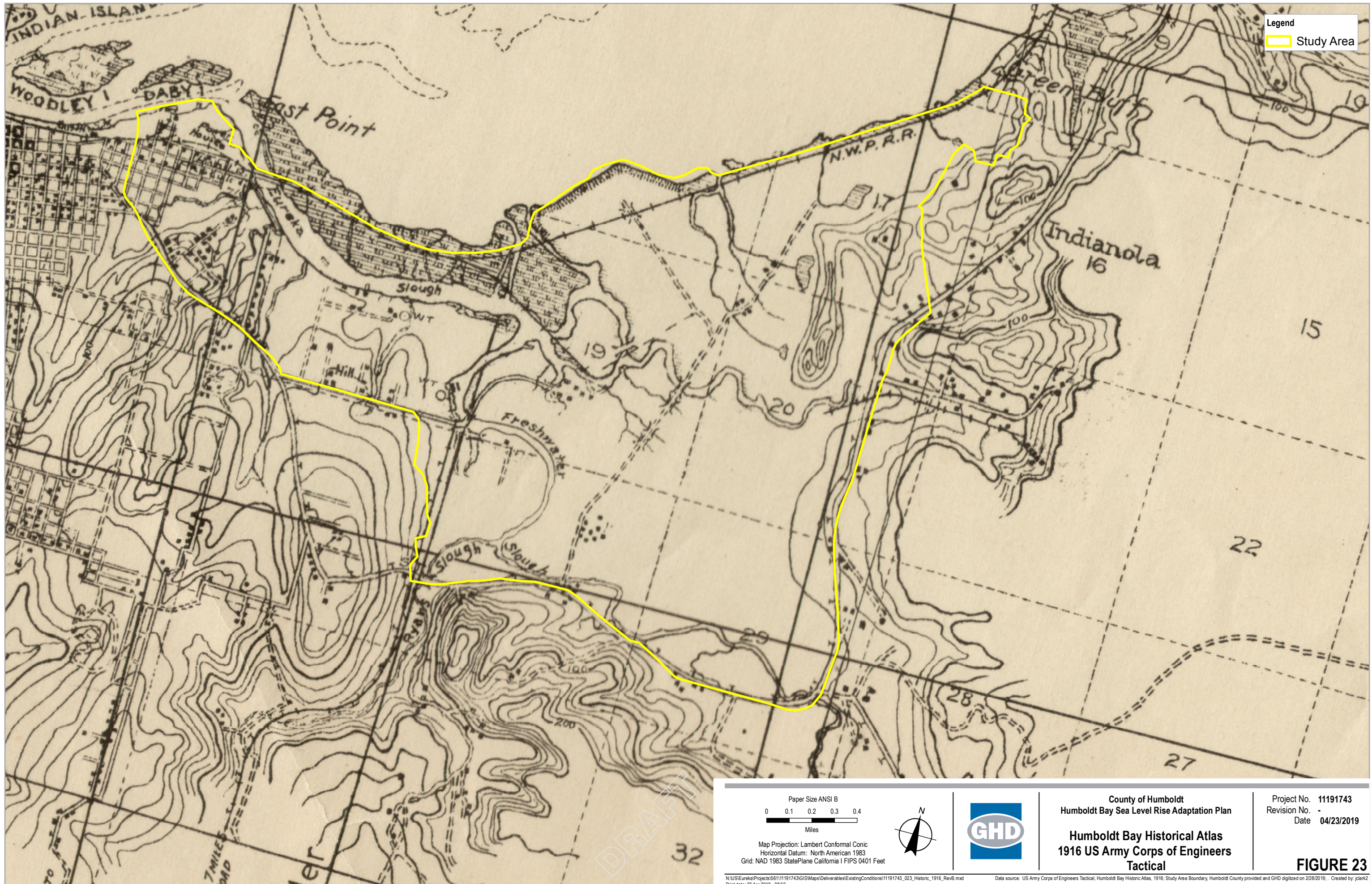



County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan  
**Humboldt Bay Historical Atlas**  
 1890 US Survey General Township  
 Plat Map

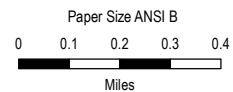
Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

**FIGURE 22**

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_022\_Historic\_1890\_Rev6.mxd  
 Print date: 23 Apr 2019 - 09:25  
 Data source: US Survey General Township Plat Map, Humboldt Bay Historic Atlas, 1890; Study Area Boundary, Humboldt County provided and GHD digitized on 2/28/2019; Created by: jclark2



Legend  
 Study Area



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

**Humboldt Bay Historical Atlas**  
 1916 US Army Corps of Engineers  
 Tactical

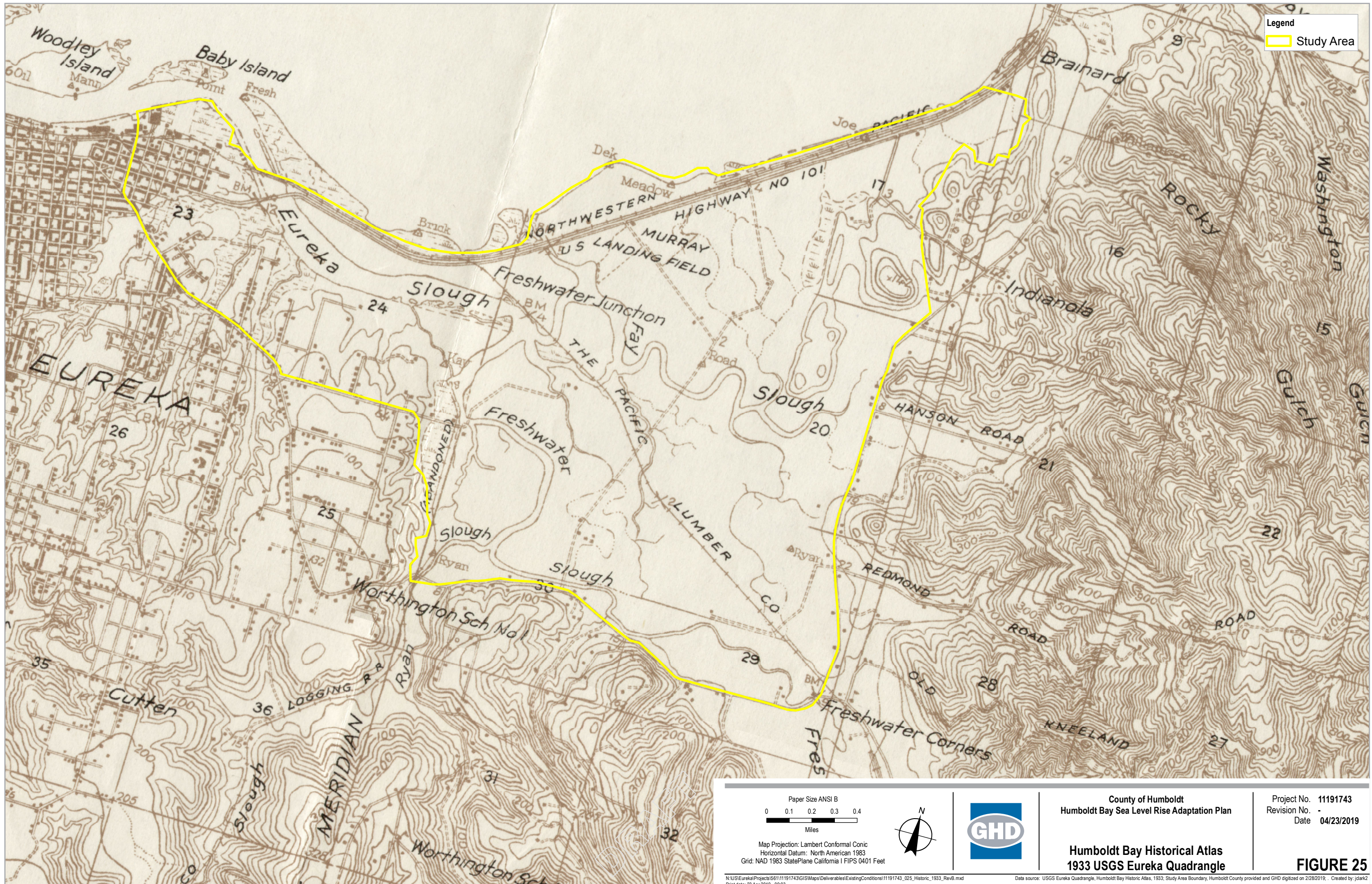
Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

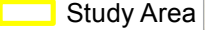
**FIGURE 23**

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_023\_Historic\_1916\_Rev6.mxd  
 Print date: 23 Apr 2019 - 08:52

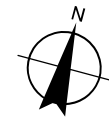
Data source: US Army Corps of Engineers Tactical, Humboldt Bay Historic Atlas, 1916; Study Area Boundary, Humboldt County provided and GHD digitized on 2/28/2019. Created by: jclark2





Legend  
 Study Area

Paper Size ANSI B  
 0 0.1 0.2 0.3 0.4  
 Miles



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

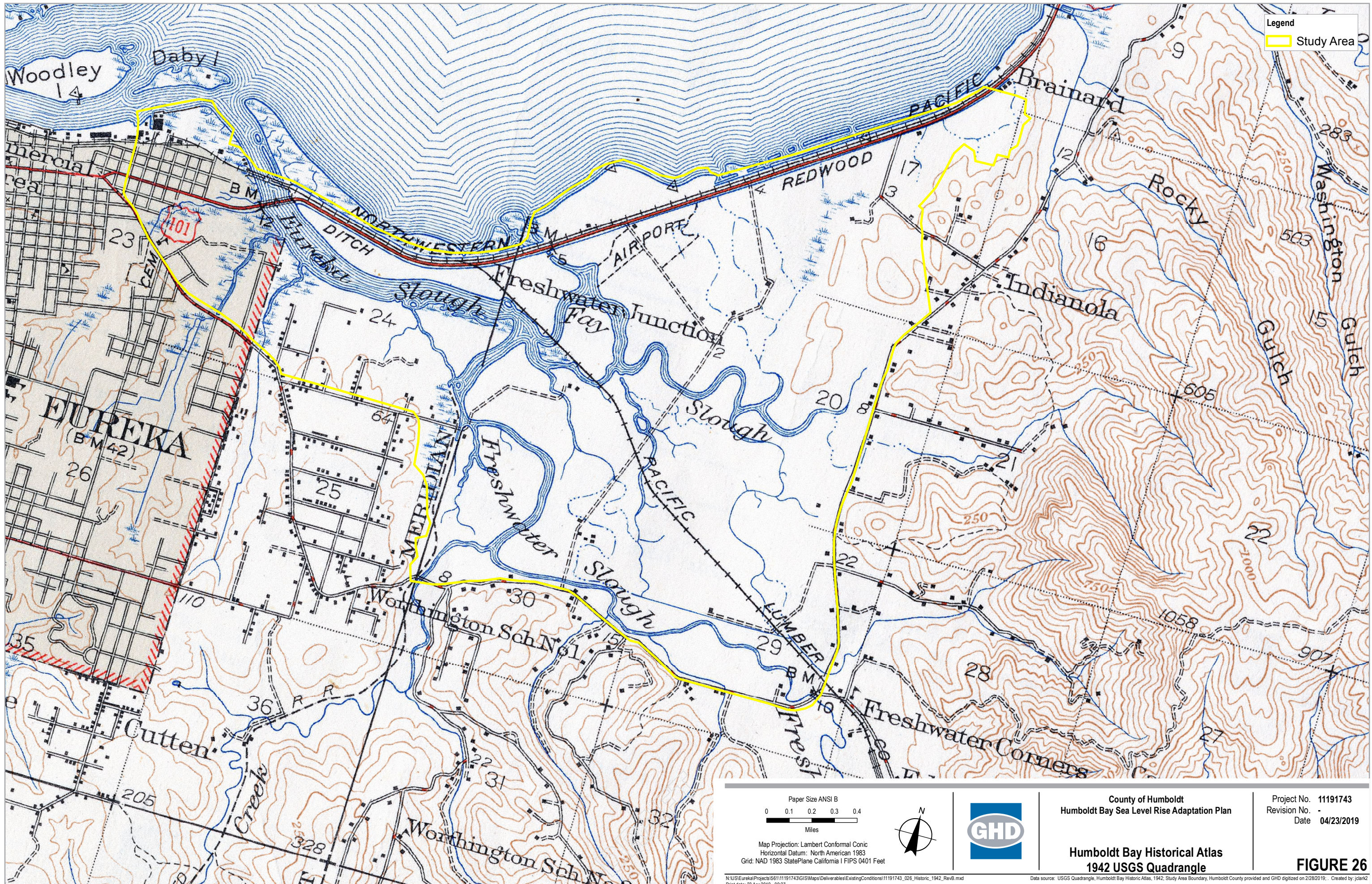
Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

Humboldt Bay Historical Atlas  
 1933 USGS Eureka Quadrangle

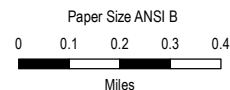
FIGURE 25

N:\US\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_025\_Historic\_1933\_Rev6.mxd  
 Print date: 23 Apr 2019 - 09:03

Data source: USGS Eureka Quadrangle, Humboldt Bay Historic Atlas, 1933; Study Area Boundary, Humboldt County provided and GHD digitized on 2/28/2019. Created by: jdark2



Legend  
 Study Area



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

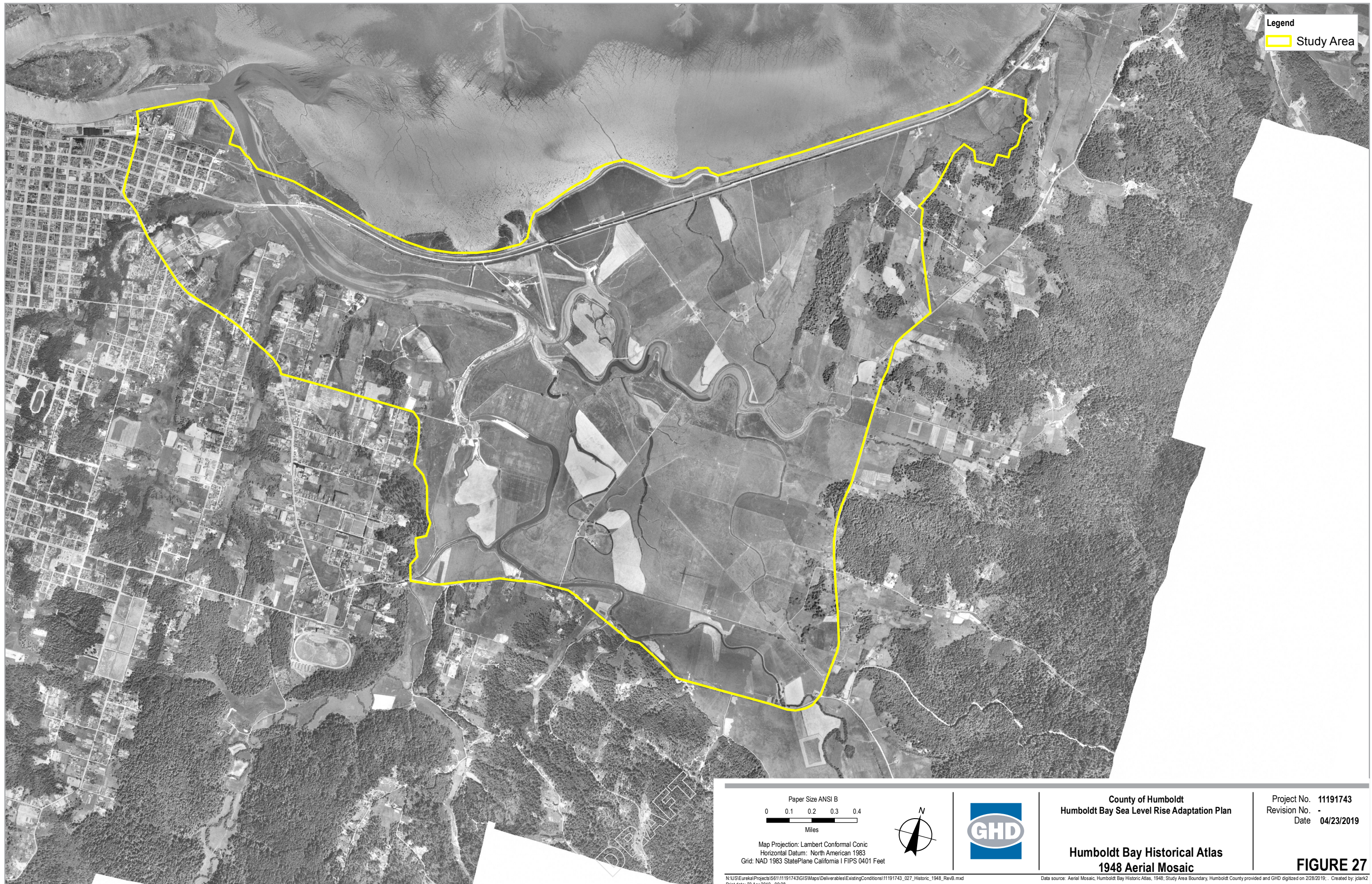
County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan


Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

Humboldt Bay Historical Atlas  
 1942 USGS Quadrangle

**FIGURE 26**

N:\US\Eureka\Projects\6611191743\GIS\Maps\Deliverables\ExistingConditions\11191743\_026\_Historic\_1942\_Rev6.mxd  
 Print date: 23 Apr 2019 - 09:27  
 Data source: USGS Quadrangle, Humboldt Bay Historic Atlas, 1942; Study Area Boundary, Humboldt County provided and GHD digitized on 2/28/2019. Created by: jclark2



Legend  
 Study Area

Paper Size ANSI B  
 0 0.1 0.2 0.3 0.4  
 Miles



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet




County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

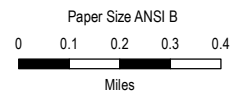
Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

Humboldt Bay Historical Atlas  
 1948 Aerial Mosaic

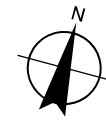
**FIGURE 27**



Legend  
 Study Area



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet




County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

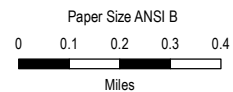
Humboldt Bay Historical Atlas  
 1954 Aerial Mosaic

Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

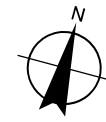
**FIGURE 28**



Legend  
 Study Area



Map Projection: Lambert Conformal Conic  
 Horizontal Datum: North American 1983  
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



County of Humboldt  
 Humboldt Bay Sea Level Rise Adaptation Plan

Humboldt Bay Historical Atlas  
 1958 Aerial Mosaic

Project No. 11191743  
 Revision No. -  
 Date 04/23/2019

FIGURE 29