

APPENDIX B

San Diego Bay WMA Supporting Data

APPENDIX B
 SAN DIEGO WATERSHED MANAGEMENT AREA
 SUPPORTING DATA

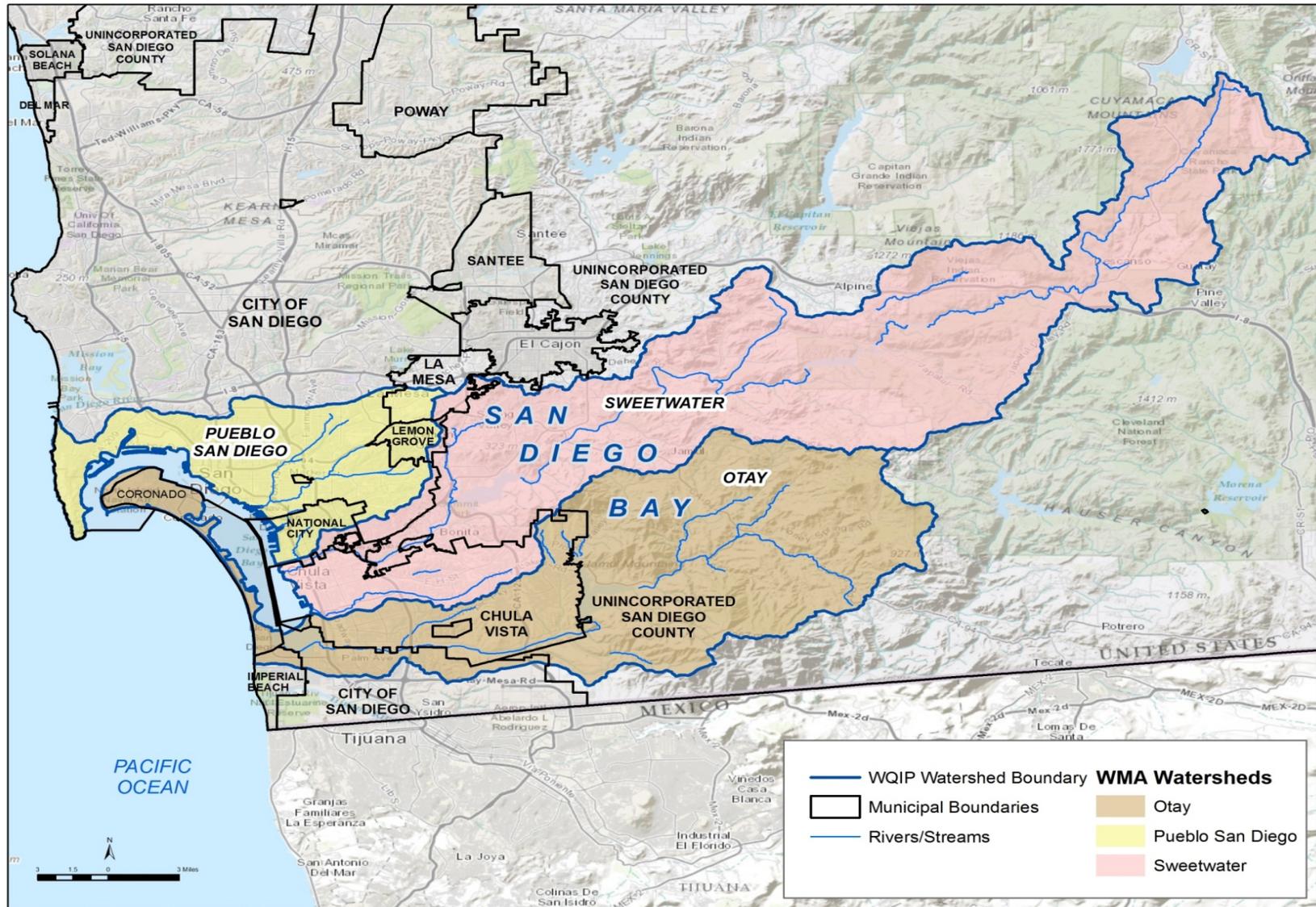


Figure B-1.
 San Diego Bay WMA Subwatersheds and Responsible Parties

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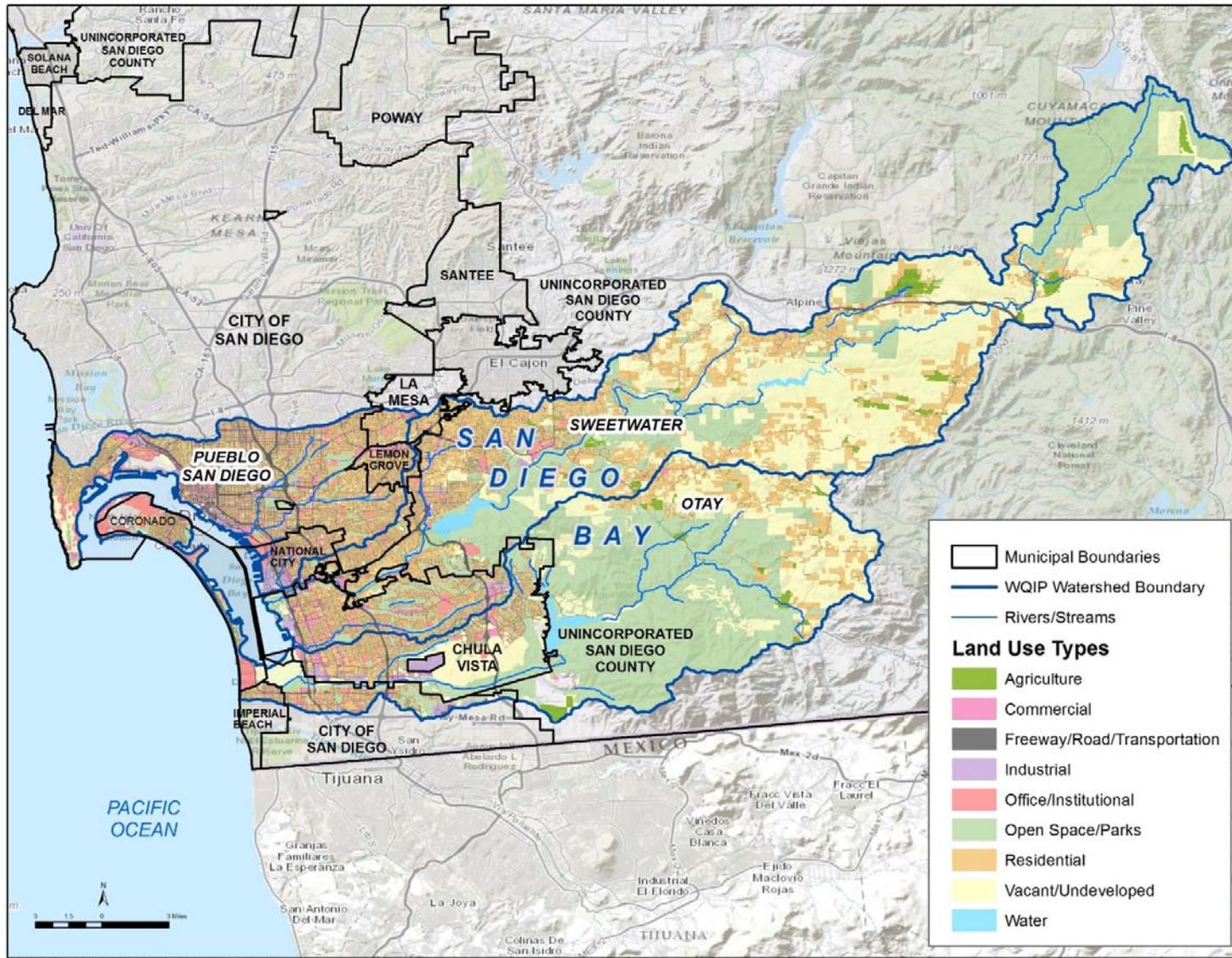
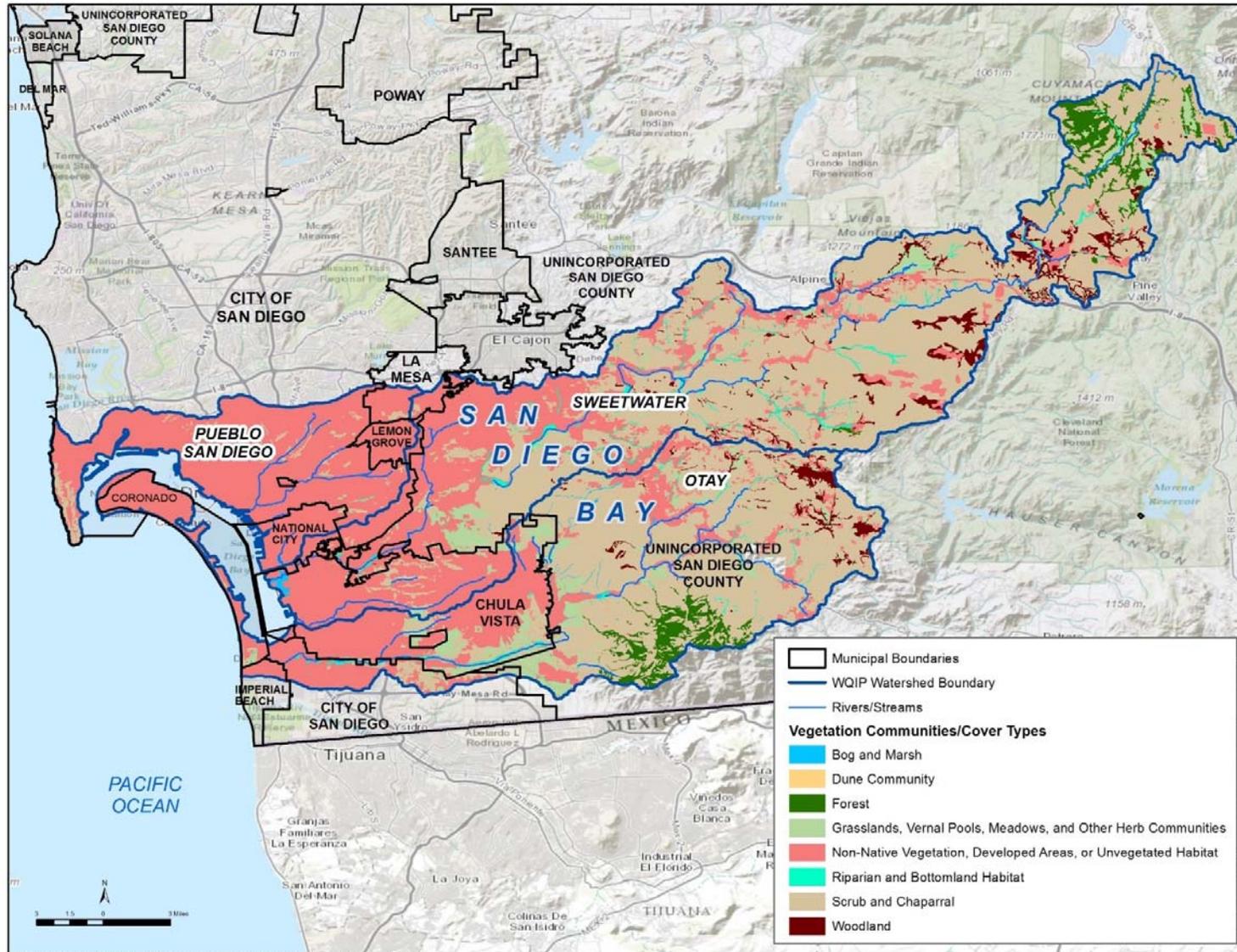


Figure B-2.
San Diego Bay Watershed Management Area—Land Use (SANDAG)

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Figure B-3.
San Diego Bay Watershed Management Area—Vegetative Cover (SANDAG, 2008)

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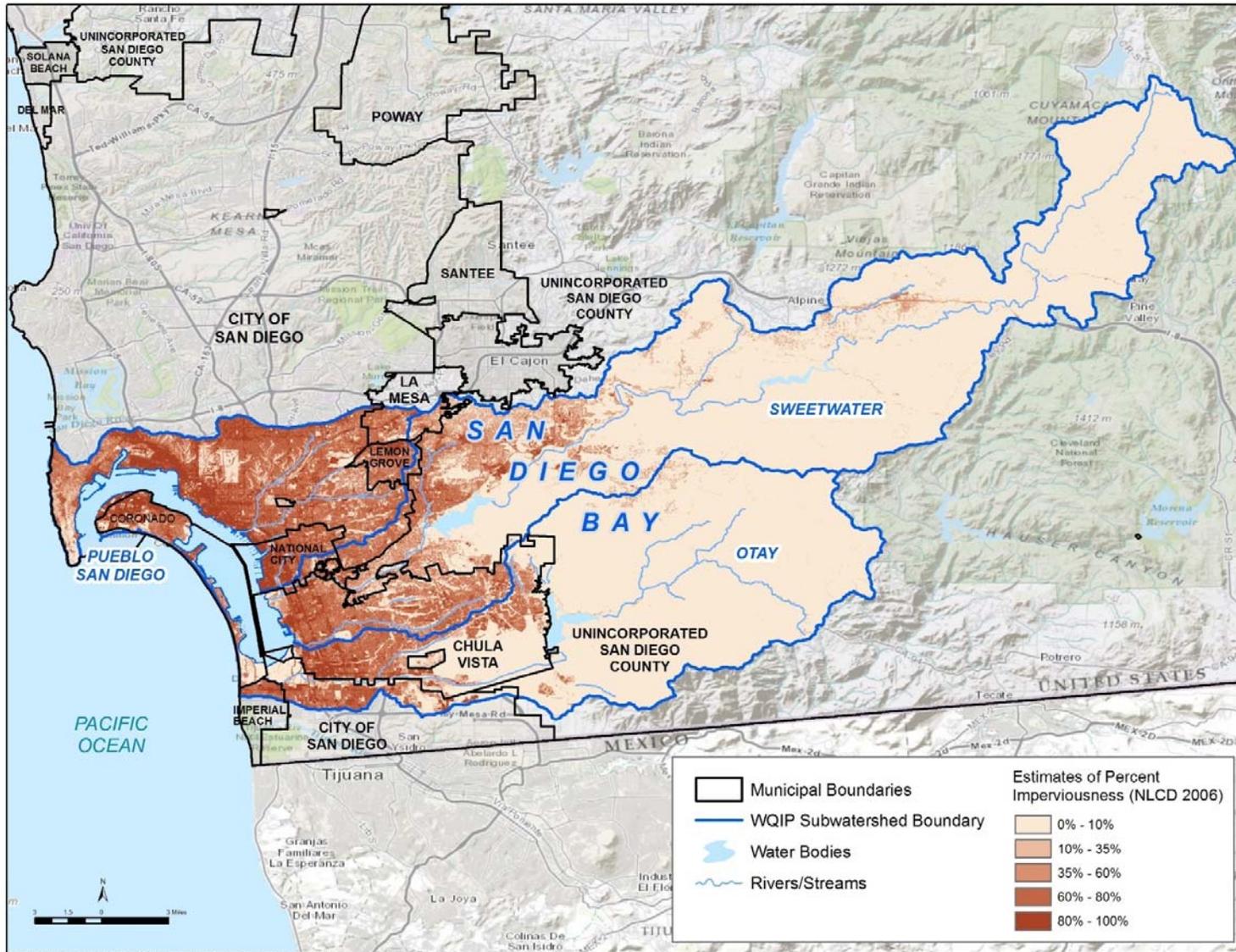


Figure B-4.
 San Diego Bay Watershed Management Area—Percentage Impervious (NLCD, 2006)

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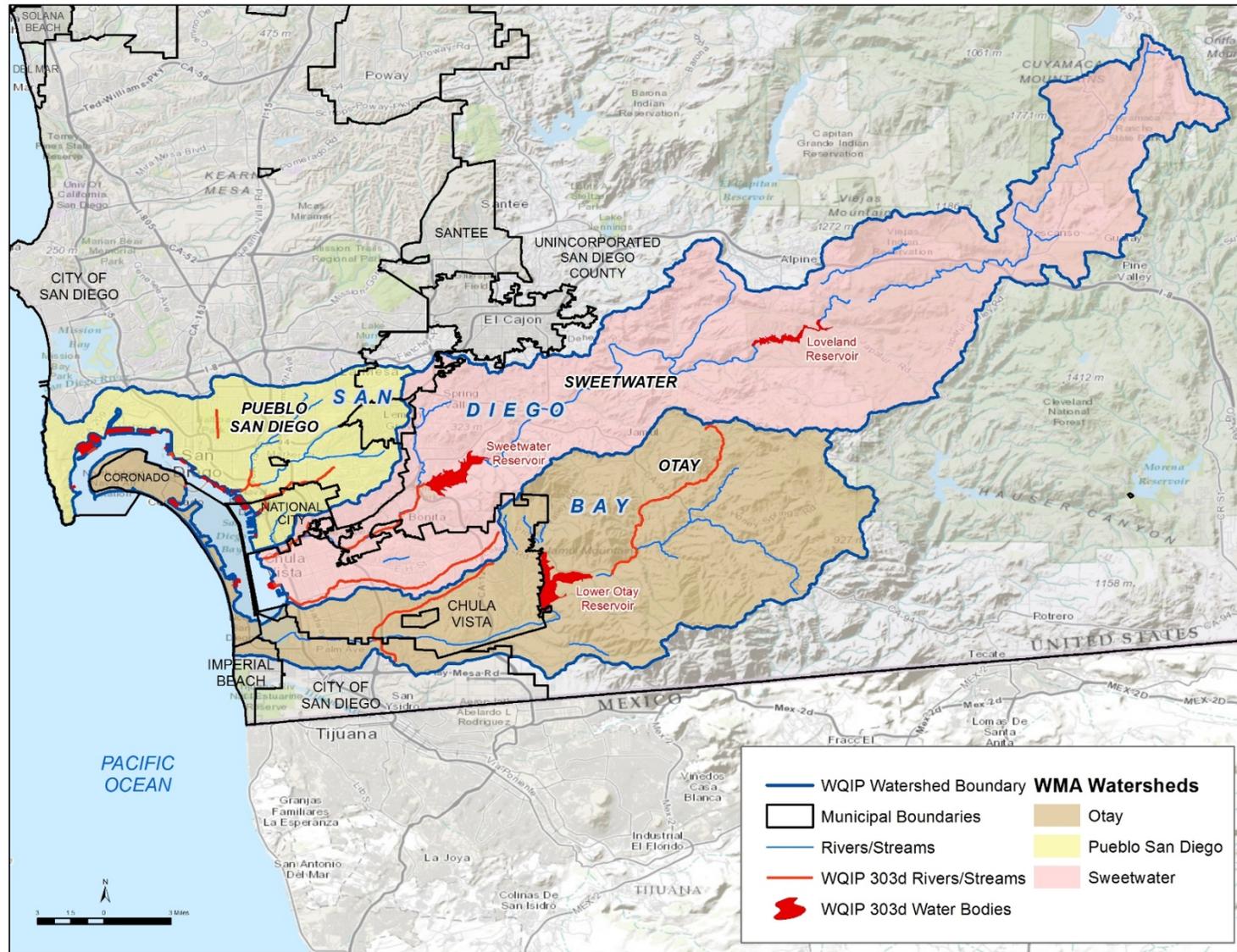
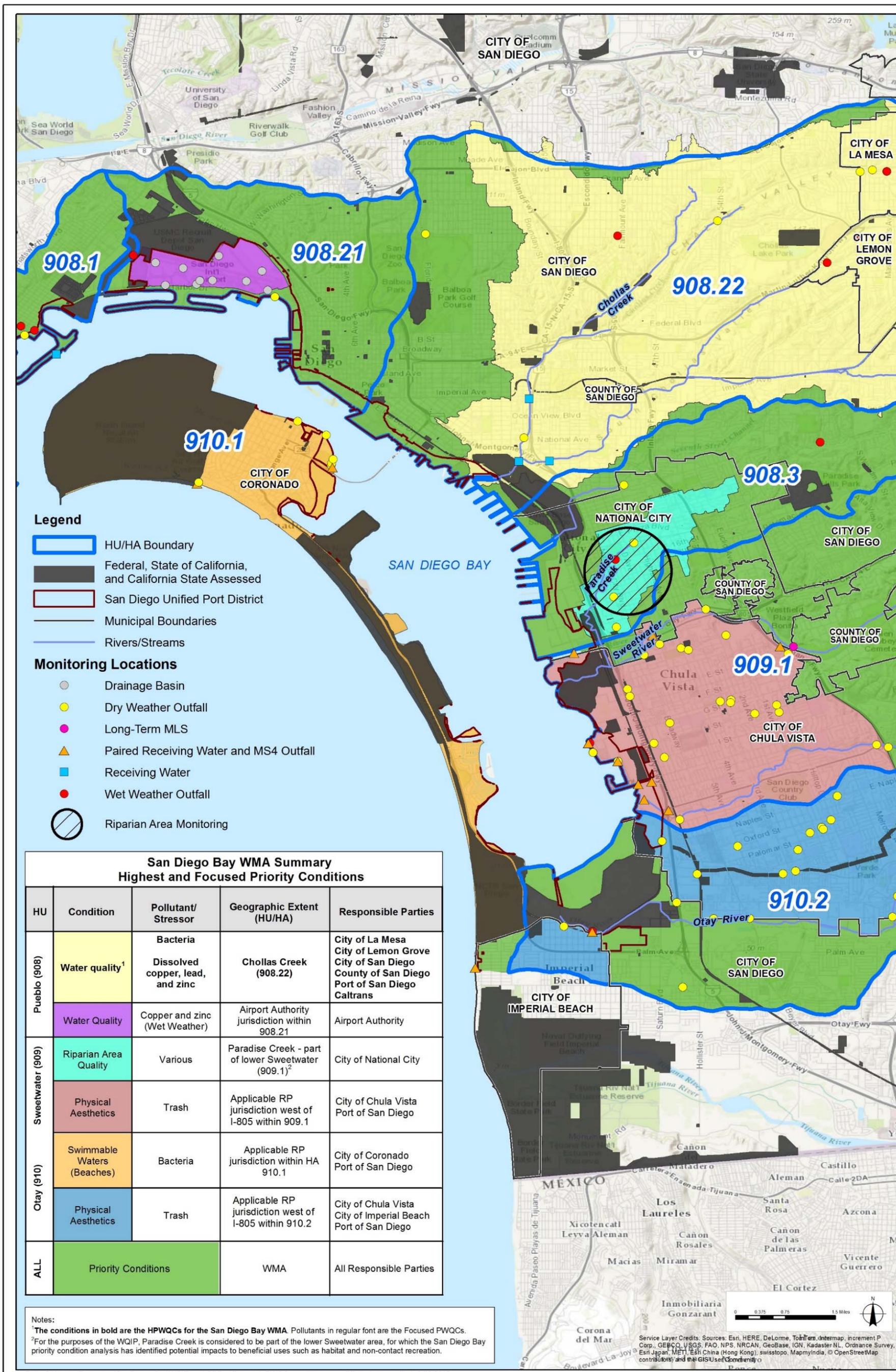


Figure B-5.
 San Diego Bay Watershed Management Area—2010 303(d)-Listed Waterbodies

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Highest and Focused Priority Conditions

Figure B-6
San Diego Bay Watershed Management Area-Highest and Focused Priority Conditions

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**Table B-1.
San Diego Bay Watershed Management Area–2010 303(d) Listings and Associated Beneficial Uses**

Water Body Name	Beneficial Use																					
	MUN	AGR	IND	NAV	COMM	PROC	GWR	FRSH	POW	REC-1	REC-2	BIOL	WARM	COLD	WILD	RARE	SPWN	MAR	AQUA	MIGR	SHELL	EST
<i>Pueblo Watershed</i>																						
Paleta Creek	+									o	•		•		•							
San Diego Bay			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, North of 24th Street Marine Terminal			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, Seventh Street Channel			•	•	•					•	•	•			•	•	•	•		•	•	•
Pacific Ocean Shoreline, Point Loma HA, at Bermuda Ave			•	•	•					•	•	•			•	•	•	•	•	•	•	
San Diego Bay Shoreline, at Americas Cup Harbor			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, near sub base			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, Shelter Island Shoreline Park			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay, Shelter Island Yacht Basin			•	•	•					•	•	•			•	•	•	•		•	•	•
Chollas Creek	+									o	•		•		•							
San Diego Bay Shoreline, 32nd St San Diego Naval Station			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, at Harbor Island (East Basin)			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, at Harbor Island (West Basin)			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, at Marriott Marina			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, at Spanish Landing			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, between Sampson and 28th Streets			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, Downtown Anchorage			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, G Street Pier			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, near Chollas Creek			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, near Coronado Bridge			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, near Switzer Creek			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, Vicinity of B St and Broadway Piers			•	•	•					•	•	•			•	•	•	•		•	•	•
Switzer Creek	+									o	•		•		•							

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**Table B-1.
San Diego Bay Watershed Management Area–2010 303(d) Listings and Associated Beneficial Uses (continued)**

Water Body Name	Beneficial Use																					
	MUN	AGR	IND	NAV	COMM	PROC	GWR	FRSH	POW	REC-1	REC-2	BIOL	WARM	COLD	WILD	RARE	SPWN	MAR	AQUA	MIGR	SHELL	EST
Sweetwater Watershed																						
Paradise Creek, HSA 908.320	+									o	•		•		•							
San Diego Bay Shoreline, at Bayside Park (J Street)			•	•	•					•	•	•			•	•	•	•		•	•	•
San Diego Bay Shoreline, Chula Vista Marina			•	•	•					•	•	•			•	•	•	•		•	•	•
Sweetwater River, Lower (below Sweetwater Reservoir)	+		•							o	•		•		•							
Sweetwater Reservoir	•	•	•			•				•	•		•		•							
Loveland Reservoir	•	•	•			•				•	•		•	•	•							
Otay Watershed																						
Pacific Ocean Shoreline, Coronado HA, at Silver Strand (north end, Oceanside)			•	•	•					•	•	•			•	•	•	•	•	•	•	•
Pacific Ocean Shoreline, Imperial Beach Pier			•	•	•					•	•	•			•	•	•	•	•	•	•	•
Pacific Ocean Shoreline, Otay Valley HA, at Carnation Ave and Camp Surf Jetty			•	•	•					•	•	•			•	•	•	•	•	•	•	•
San Diego Bay Shoreline, at Coronado Cays			•	•	•					•	•	•			•	•	•	•	•	•	•	•
San Diego Bay Shoreline, at Glorietta Bay			•	•	•					•	•	•			•	•	•	•	•	•	•	•
San Diego Bay Shoreline, Tidelands Park			•	•	•					•	•	•			•	•	•	•	•	•	•	•
Jamul Creek	•	•	•			•				•	•	•	•		•							
Lower Otay Reservoir	•	•	•			•				•	•		•	•	•							
Poggi Canyon Creek	+	•	o							o	•		•		•							

Notes:

Shaded cells indicate that the beneficial use is listed as impaired in the 303(d) listing.

Striped cells indicate that the beneficial use is listed as impaired in the 2010 303(d) listing, but the 2010303(d)-listed beneficial use is not designated as a beneficial use for the waterbody in the Basin Plan.

- Existing Beneficial Use
- o Potential Beneficial Use
- + Excepted from MUN

Notes:

Beneficial Use Categories: MUN = municipal and domestic supply; AGR = agricultural supply; IND = industrial service supply; NAV = navigation; COMM = commercial and sport fishing; PROC = industrial process supply; GWR = groundwater recharge, FRSH = freshwater replenishment; POW = hydropower generation; REC-1 = contact water recreation; REC-2 = non-contact water recreation; BIOL = preservation of biological habitats of special significance; WARM = warm freshwater habitat; COLD = cold freshwater habitat; WILD = wildlife habitat; RARE = rare, threatened, or endangered species; SPWN = spawning, reproduction, and/or early development; MAR = marine habitat; AQUA = aquaculture; MIGR = migration of aquatic organisms; "SHELL = shellfish harvesting; EST = estuarine habitat.

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*San Diego Bay Water Quality Improvement Plan—Phase I
Resource Documents*

Primary References

2011 Long-Term Effectiveness Assessment Final Report. San Diego Stormwater Copermittees Urban Runoff Management Programs
2011-2012 San Diego County Municipal Copermittee Receiving Waters and Urban Runoff Monitoring Report
2011-2012 San Diego Bay WMA WURMP Annual Report
2010 California 303(d) List of Impaired Water Bodies
2013 Municipal Permit Order No. R9-2013-0001
2013 Paleta, Chollas, and Switzer Creeks Sediment TMDL Draft Technical Report
2010 Twenty Beaches and Creeks Bacteria TMDL Resolution No. R9-2010-0001 and Technical Report
2008 Shelter Island Shoreline Park Bacteria TMDL Resolution No. R9-2008-0027 and Technical Report
2007 Shelter Island Shoreline Park Dissolved Copper, Lead, and Zinc TMDL Resolution No. R9-2007-0043 and Technical Report
2005 Shelter Island Yacht Basin Dissolved Copper TMDL Resolution No. R9-2005-0019 and Technical Report
2003 Chollas Creek Diazinon TMDL Resolution No. R9-2002-0123 and Technical Report
San Diego Basin Plan, with amendments
2013 Regional Board Practical Vision
2012 Chollas Creek Watershed Comprehensive Load Reduction Plan
Chollas Creek Total Maximum Daily Load 2012-2013 Water Quality Compliance Monitoring Report
2005 Phase II TMDL Sediment Quality Assessment Study at the B Street/Broadway Piers, Downtown Anchorage, and Switzer Creek, San Diego.
2013 CalRecycle Solid Waste Information System Website
2014 Paradise Creek Selenium Monitoring Final Report
2014 City of National City Transitional Dry Weather MS4 Outfall Monitoring Program
Clean Water Act of 1972, with amendments
2010 Multi-Pollutant TMDL Implementation Plan for the Unincorporated Area of the Los Angeles River Watershed
2012 County of San Diego SUSUMP
2011 National Land Cover Database
1999 National Resources Conservation Service California Watershed Dataset
2008 San Diego Bay WMA WURMP
2003 San Diego Bay WMA WURMP
SANDAG Vegetation GIS Layers
SANDAG Vegetation Land Use Layers
2012 San Diego Coastkeeper Comments on Tentative Order No. R9-2012-0011
2014 SMARTS Online Database

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Primary References (continued)

2014 State Water Resources Control Board NPDES Permit Database
2013 SWAMP Tools for Assessing the Biological Integrity of Surface Waters
2014 USEPA Website discussing Green Infrastructure
2014 USEPA TMDL Glossary
2009 USEPA TMDL Program Results Analysis Fact Sheet
2012 San Diego Bay National Wildlife Refuge Information from the US Fish and Wildlife Service
2009 USGS article on Mercury Contamination of Aquatic Ecosystems
2008 Wanatabe et al. article on Diazinon in the Chollas Creek Watershed
2013 Online article on Eutrophication and Hypoxia

Additional Resources

Armand Ruby Consulting in Association with AMEC. Draft Technical Memorandum. Summary of Literature Review, Bacteria Source Identification and Conceptual Model (2012)
City of Chula Vista 2012 Dry Weather Monitoring Report
Caltrans Stormwater Management Program Annual Report (2012-2013)
Caltrans Stormwater Management Program District 11 Work Plan (2012-2013)
City of Chula Vista Jurisdictional Urban Runoff Monitoring Program (JURMP) Annual Report (2011-2012)
City of Chula Vista JURMP (2007)
City of Chula Vista Selenium Special Study Monitoring Results (2011-2013)
City of Coronado JURMP Annual Report (2011-2012)
City of Coronado JURMP Annual Report (2012-2013)
City of Imperial Beach JURMP (2008)
City of La Mesa Dry Weather Field Screening and Analytical Monitoring Program (2013)
City of La Mesa JURMP (2008)
City of Lemon Grove JURMP Annual Report (2011-2012)
City of National City JURMP (2008)
City of National City JURMP Annual Report (2012-2013)
City of National City Municipal Separate Storm Sewer Dry Weather Outfall Monitoring Analytical Results (2013)
City of San Diego Chollas Creek Copper, Lead, and Zinc Water-Effect Ratio Study (2011)
City of San Diego Chollas Creek Storm Drain Characterization Study (2010)
City of San Diego Chollas Creek TMDL Source Loading, Best Management Practices, and Monitoring Strategy Assessment. Final Report (2006)
City of San Diego Enterococcal Sources and Growth Related to Two Storm Drains in San Diego County. Draft Final Report. (2011)
City of San Diego JURMP (2008)
City of San Diego JURMP Annual Report (2010-2011)
City of San Diego JURMP Annual Report (2011-2012)

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Additional Resources (continued)

City of San Diego Shelter Island Dissolved Copper Total Maximum Daily Load Compliance Monitoring Report (2011-2012)
City of San Diego Targeted Aggressive Street Sweeping Pilot Study Effectiveness Assessment. Final Report (2010)
County of San Diego JURMP (2011-2012)
Otay River Watershed Management Plan (2006)
Port of San Diego Annual Report for Storm Water Discharges Associated with Industrial Activities-Cruise Ship Terminal (2012-2013)
Port of San Diego Annual Report for Storm Water Discharges Associated with Industrial Activities-National City Marine Terminal (2012-2013)
Port of San Diego Annual Report for Storm Water Discharges Associated with Industrial Activities-Tenth Avenue Marine Terminal (2012-2013)
Port of San Diego Bacteriological Data Evaluation for Shelter Island Shoreline Park, 2004 through 2012. Final Report (2012)
Port of San Diego JURMP (2007)
Port of San Diego JURMP Annual Report (2012-2013)
Port of San Diego JURMP Annual Update Part I & II (2012-2013)
Port of San Diego Master Plan Amendment. Draft Chula Vista Bayfront Master Plan & Port Master Plan Amendment (2010)
Port of San Diego San Diego Bay Integrated Natural Resources Management Plan (2013)
Port of San Diego. Shelter Island Yacht Basin Total Maximum Daily Load Monitoring and Progress Report. AMEC. (2013)
Regional Harbor Monitoring Program Copper Literature Review & Biotic Ligand Model Analysis (2011)
Regional Harbor Monitoring Program Final Report (2008)
Regional Harbor Monitoring Program Pilot Project 2005-08 Summary Final Report
Regional Harbor Monitoring Program Special Study Sediment and Water Toxicity Assessment (2011)
San Diego County Regional Airport Authority SAN Storm Water Management Plan (2008)
San Diego County Regional Airport Authority Annual Illicit Discharge Detection and Elimination Report (2011-2012)
San Diego County Regional Airport Authority Municipal Stormwater Permit Annual Report (2011-2012)
San Diego County Regional Airport Authority Municipal Stormwater Permit Annual Report (2012-2013)
San Diego Integrated Regional Water Management Plan, Volume I & II (2013)
SCCWRP 2008 Bight Regional Monitoring Program documents (data incorporated in 2010 LTEA)
SPAWAR Stormwater Toxicity Evaluation: Naval Station San Diego, Naval Submarine Base San Diego, Naval Amphibious Base Coronado, and Naval Air Station North Island. (2006)

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Additional Resources (continued)

TDY Industries, LLC. Post-Remediation Risk Assessment Work Plan for the Airport/Former TDY Site (2013)
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