

**TABLE NPS-1**  
**SAN DIEGO REGION NONPOINT SOURCE PROBLEMS AND THREATS**  
**BY MANAGEMENT MEASURE CATEGORY**  
*(to be updated; also see Tables 8, 9, 10 & 11)*

Water Quality / Beneficial Use Problems and Threats Arranged by Management Measure Category				
PROBLEM / THREAT	AGRICULTURE	URBAN RUNOFF	MARINAS & BOATING	HYDRO- MODIFICATION
<b><i>San Juan WMA [San Juan HU (1)]</i></b>				
Stream bed / flood plain instability		X		X
Pathogens	X	X		
Nutrients / eutrophication	X	X		
Non-native invasive species	X	X	X	X
Habitat degradation and loss				X
Metals	X	X	X	
Pesticides	X	X		
Elevated temperature				X
Lowered dissolved oxygen	X	X		X
<b><i>Santa Margarita River WMA [Santa Margarita HU (2)]</i></b>				
Sedimentation	X	X		X
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X		X
Habitat degradation and loss				X
Pesticides	X	X		
Elevated temperature				X
Lowered dissolved oxygen	X	X		X
<b><i>San Luis Rey River WMA [San Luis Rey HU (3)]</i></b>				
Stream bed / flood plain instability		X		X
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X	X	X
Habitat degradation and loss				X
Metals	X	X	X	
Lowered dissolved oxygen	X	X		X

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PROBLEM / THREAT	AGRICULTURE	URBAN RUNOFF	MARINAS & BOATING	HYDRO-MODIFICATION
<b><i>Carlsbad WMA [Carlsbad HU (4)]</i></b>				
Sedimentation	X	X		X
Pathogens	X	X		
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X		X
Habitat degradation and loss				X
Lowered dissolved oxygen	X	X		X
<b><i>San Dieguito River WMA [San Dieguito HU (5)]</i></b>				
Sedimentation	X	X		X
Pathogens	X	X		
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X		X
Habitat degradation and loss				X
Lowered dissolved oxygen	X	X		X
<b><i>Penasquitos / Mission Bay WMA [Penasquitos HU (6)]</i></b>				
Sedimentation	X	X		X
Pathogens		X	X	
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X	X	X
Habitat degradation and loss				X
Metals	X	X	X	
Lowered dissolved oxygen	X	X		X
<b><i>San Diego River WMA [San Diego HU (7)]</i></b>				
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X		X
Habitat degradation and loss				X
Lowered dissolved oxygen	X	X		X

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PROBLEM / THREAT	AGRICULTURE	URBAN RUNOFF	MARINAS & BOATING	HYDRO-MODIFICATION
<b><i>San Diego Bay WMA [Pueblo San Diego HU (8), Sweetwater River HU (9) &amp; Otay River HU (10)]</i></b>				
Trash		X	X	
Salinity (increased)		X		
Stream bed / flood plain instability		X		X
Pathogens		X	X	
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X	X	X
Habitat degradation and loss				X
Benthic community degradation	X	X	X	
Metals	X	X	X	
Pesticides	X	X		
PCBs		X		
PAHs		X	X	
Petroleum		X	X	
Other Toxic Substances	X	X	X	
Toxicity	X	X	X	
<b><i>Tijuana River WMA [Tijuana HU (11)]</i></b>				
Trash		X		
Salinity (decreased)		X		
Sedimentation	X	X		X
Pathogens	X	X		
Nutrients / eutrophication	X	X		X
Non-native invasive species	X	X		X
Habitat degradation and loss				X
Metals	X	X		
Pesticides	X	X		
Other toxic substances	X	X		
Lowered dissolved oxygen	X	X		X