

Burn Area Recovery Task Force (BART) Report

San Diego County

Appendix D - Biological

The identified risks and related post-fire issues have been identified and listed according to watershed boundaries as follows:

San Luis Rey River/Pauma Creek

- The San Luis Rey River/Pauma Creek Watershed is included in the proposed San Diego County North County Multiple Species Conservation Program (NCMSCP) plan. This Natural Community Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for southwestern willow flycatcher, large-blotched salamander, Laguna Mountain skipper, San Bernardino blue grass, and Dunn's mariposa lily should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Southwestern willow flycatcher habitat (riparian) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

San Luis Rey River/Paradise Creek

- The San Luis Rey River/Paradise Creek Watershed is included in the proposed San Diego County North County Multiple Species Conservation Program (NCMSCP) plan. This Natural Community Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Coastal California gnatcatcher habitat (coastal sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- Surveys for coastal California gnatcatcher, arroyo toad, and Nevin's barberry should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.

- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

San Ysabel Creek/Sutherland Lake

- This watershed is included in the proposed San Diego County North County Multiple Species Conservation Program (NCMSCP) plan and proposed San Diego Multiple Habitat Conservation and Open Space Program plan. These Natural Community Conservation Plans cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for bald eagle, arroyo toad, and Gander's ragwort should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed Natural Communities Conservation Plan (NCCP).
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Temescal Creek

- This watershed is included in the proposed San Diego NCMSCP plan and proposed San Diego Multiple Habitat Conservation and Open Space Program plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for coastal California gnatcatcher, arroyo toad, and Gander's ragwort should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Coastal California gnatcatcher habitat (coastal sage scrub) and arroyo toad habitat (riparian) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Santa Ysabel/Boden Canyon

- This watershed is included in the proposed San Diego NCMSCP plan and proposed San Diego Multiple Habitat Conservation and Open Space Program plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.

- Surveys for coastal California gnatcatcher, least Bell's vireo, and arroyo toad should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Coastal California gnatcatcher habitat (coastal sage scrub) and arroyo toad and least Bell's vireo habitat (riparian) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Upper Santa Maria Creek

- This watershed is included in the proposed San Diego NCMSCP plan and proposed San Diego Multiple Habitat Conservation and Open Space Program plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for coastal California gnatcatcher should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Coastal California gnatcatcher habitat (coastal sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Santa Ysabel Creek/Rockwood Canyon

- This watershed is included in the proposed San Diego NCMSCP plan, proposed Multiple Habitat Conservation Program plan, and proposed San Diego Multiple Habitat Conservation and Open Space Program plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for southwestern willow flycatcher, least Bell's vireo, coastal California gnatcatcher, coastal cactus wren, arroyo toad, and San Diego thorn-mint should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Impacts to coastal California gnatcatcher habitat (coastal sage scrub), southwestern willow flycatcher, least Bell's vireo, and arroyo toad habitat (riparian), and San Diego thorn-mint should be avoided or minimized.

Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.

- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

San Dieguito River

- This watershed is included in the proposed San Diego NCMSCP plan and proposed Multiple Habitat Conservation Program plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for least Bell's vireo, coastal California gnatcatcher, coastal cactus wren, arroyo toad, Encinitas baccharis, Orcutt's spineflower, San Diego ambrosia, and San Diego thorn-mint should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Impacts to these species and their habitats should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

San Vicente Creek

- This watershed is included in the proposed San Diego NCMSCP plan and proposed San Diego Multiple Habitat Conservation and Open Space Program plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for coastal California gnatcatcher and San Diego thorn-mint should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Coastal California gnatcatcher habitat (coastal sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

San Diego River/Dye Canyon

- This watershed is included in the proposed San Diego NCMSCP plan and proposed San Diego Multiple Habitat Conservation and Open Space Program plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for coastal California gnatcatcher should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Coastal California gnatcatcher habitat (coastal sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Cedar Creek

- This watershed is included in the proposed San Diego NCMSCP plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for coastal California gnatcatcher should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Coastal California gnatcatcher habitat (coastal sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

San Diego River/Boulder Creek

- This watershed is included in the proposed San Diego NCMSCP plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for coastal California gnatcatcher and arroyo toad should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Coastal California gnatcatcher habitat (coastal sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with

U.S. Fish and Wildlife Service and Department of Fish and Game.

- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

San Diego River/El Capitan Reservoir

- This watershed is included in the proposed San Diego NCMSCP plan and proposed San Diego Multiple Habitat Conservation and Open Space Program plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for southwestern willow flycatcher and arroyo toad should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Lower San Diego River

- This watershed is included in the proposed San Diego NCMSCP plan and proposed San Diego Multiple Habitat Conservation and Open Space Program plan. These NCCP cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for protected/sensitive species should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

San Diego South Coast

- This watershed is included in the proposed San Diego NCMSCP plan. This Natural Communities Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for coastal California gnatcatcher, coastal cactus wren, and San Diego thorn-mint should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.

- Coastal California gnatcatcher habitat (coastal sage scrub) and San Diego thornmint impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Padre Barona Creek

- This watershed is included in the proposed San Diego NCMSCP plan and proposed San Diego Multiple Habitat Conservation and Open Space Program plan. These Natural Communities Conservation Plans cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for Dunn's mariposa lily should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- It is recommended that projects within the watershed coordinate with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the proposed NCCP.
- Notification to wetland-permitting agencies for in-stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Sweetwater Marsh

- The Sweetwater Marsh Watershed is included in the approved South San Diego County Multiple Species Conservation Plan. This Natural Communities Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Coastal California gnatcatcher and coastal cactus wren habitat (coastal sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- Surveys for least Bell's vireo, coastal California gnatcatcher, coastal cactus wren, Otay tarplant, and Quino checkerspot butterfly should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Projects within the watershed would need coordination with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
- Notification to wetland permitting agencies for in stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Sweetwater Reservoir

- The Sweetwater Reservoir Watershed is included in the approved South San Diego County Multiple Species Conservation Plan. This Natural Communities Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Coastal California gnatcatcher and coastal cactus wren habitat (sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- Surveys for least Bell's vireo, southwestern willow flycatcher, coastal California gnatcatcher, coastal cactus wren, arroyo toad, Dunn's mariposa lily, Otay tarplant, and Hermes copper butterfly should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Projects within the watershed would need coordination with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
- Notification to wetland permitting agencies for in stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Otay Reservoir

- The Otay Reservoir Watershed is included in the approved South San Diego County Multiple Species Conservation Plan. This Natural Communities Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- San Diego County should consider the installation of sedimentation basins on the Dulzura and Jamul Creeks upstream of Lower Otay Lake in order to prevent or limit the amount of debris flow into the reservoir itself. Funding for this could come from the U.S. Army Corps of Engineers or from NRCS.
- California gnatcatcher and coastal cactus wren habitat (sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- Projects within the watershed would need coordination with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
- Surveys for least Bell's vireo, coastal California gnatcatcher, coastal cactus wren, arroyo toad, Mexican flannelbush, Tecate cypress, Otay tarplant, Dunn's mariposa lily, San Diego ambrosia, Dehesa nolina, San Diego button-celery, San Diego thornmint, Quino checkerspot butterfly, Hermes copper butterfly, Thorne's hairstreak butterfly, and San Diego fairy shrimp should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Notification to wetland permitting agencies for in stream work should occur prior

to conducting emergency work for all projects within streams/water courses.

Jamul Creek

- The Jamul Creek Watershed is included in the approved South San Diego County Multiple Species Conservation Plan. This Natural Communities Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Coastal California gnatcatcher habitat (sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- Projects within the watershed would need coordination with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
- Surveys for coastal California gnatcatcher, Hermes Copper Butterfly, Mexican flannelbush, and Dunn's mariposa lily should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Notification to wetland permitting agencies for in stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Otay River

- The Otay River Watershed is included in the approved South San Diego County Multiple Species Conservation Plan. This Natural Communities Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- California gnatcatcher and coastal cactus wren habitat (sage scrub) impacts should be avoided or minimized. Unavoidable impacts would require consultation with U.S. Fish and Wildlife Service and Department of Fish and Game.
- Surveys for coastal California gnatcatcher, coastal cactus wren, least Bell's vireo, Quino checkerspot butterfly, Thorne's hairstreak butterfly, Tecate cypress, Otay tarplant, Otay mesa mint, San Diego button-celery, and Dunn's mariposa lily should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Projects within the watershed would need coordination with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
- Notification to wetland permitting agencies for in stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Lower Pine Valley

- The Lower Pine Valley Watershed is included in the approved South San Diego

County Multiple Species Conservation Plan. This Natural Communities Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.

- Surveys for coastal cactus wren, arroyo toad, Gander's ragwort, Dunn's mariposa lily, and Dehesa nolina should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Projects within the watershed would need coordination with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
- Notification to wetland permitting agencies for in stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Cottonwood Creek/Lake Moreno

- The Cottonwood Creek/Lake Moreno Watershed is included in the proposed East County Multiple Species Conservation Plan. This Natural Communities Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for arroyo toad should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Projects within the watershed would need coordination with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
- Notification to wetland permitting agencies for in stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Cottonwood Creek/McAlmond Canyon

- The Cottonwood Creek/McAlmond Canyon Watershed is included in the proposed East County Multiple Species Conservation Plan. This Natural Communities Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for arroyo toad and Dehesa nolina should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Projects within the watershed would need coordination with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
- Notification to wetland permitting agencies for in stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Cottonwood Creek/Portrero Creek

- The Cottonwood Creek/Portrero Creek Watershed is included in the approved

- South San Diego County Multiple Species Conservation Plan and proposed East County Multiple Species Conservation Plan. These Natural Communities Conservation Plans cover state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for arroyo toad, Thorne's hairstreak butterfly, Quino checkerspot butterfly, San Diego fairy shrimp, Tecate cypress, and Gander's ragwort should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
 - Projects within the watershed would need coordination with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
 - Notification to wetland permitting agencies for in stream work should occur prior to conducting emergency work for all projects within streams/water courses.

Campo Creek

- The Campo Creek Watershed is included in the proposed East County Multiple Species Conservation Plan. This Natural Communities Conservation Plan covers state and federal endangered species permitting for several species including the coastal California gnatcatcher.
- Surveys for Quino checkerspot butterfly should occur within areas of suitable habitat prior to ground disturbance activities within this watershed.
- Projects within the watershed would need coordination with the Department of Fish and Game and U.S. Fish and Wildlife Service for consistency with the NCCP.
- Notification to wetland permitting agencies for in stream work should occur prior to conducting emergency work for all projects within streams/water courses.