MISSION VISTA

MISSION GORGE RD

LEGEND

Project Study Area
Burrowing Owl Survey Areas
Burrowing Owl Assessment
Hermes Copper Butterfly Survey Areas
Vegetation Communities/Land Covers
CLOW, Coast Live Oak Woodland
CSS, Diegan Coastal Sage Scrub
DEV, Urban/Developed
DH, Disturbed Habitat
EUC, Eucalyptus Woodland
NNG, Non-native Grassland
NNV, Non-native Vegetation
NNW, Non-native Woodland
SCLO, Southern Coast Live Oak Riparian Forest
SWS, Southern Willow Scrub
dCSS, disturbed Diegan Coastal Sage Scrub

FIGURE 2-2M
Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

Biological Resources Report for the North City Project

SOURCE: SANDAG, 2016
Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

LEGEND
- Project Study Area
- No Survey Access
- Burrowing Owl Survey Areas
- Burrowing Owl Assessment
- Hermes Copper Butterfly Survey Areas
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - NNV, Non-native Vegetation
  - NNW, Non-native Woodland
  - NVC, Non-vegetated Channel or Floodway
  - SMX, Southern Mixed Chaparral
  - SWRF, Southern Arroyo-Willow Riparian Forest

SOURCE: SANDAG, 2016
FIGURE 2-2O
Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

LEGEND

- Project Study Area
- Burrowing Owl Assessment
- Vegetation Communities/Land Covers
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - NNW, Non-native Woodland
  - SWS, Southern Willow Scrub
  - dSWS, disturbed Southern Willow Scrub

Carleton Oaks Dr
Carlton Oaks Blvd
Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

LEGEND
- Project Study Area
- No Survey Access
- Burrowing Owl Assessment
- Hermes Copper Butterfly Survey Areas
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - NNG, Non-native Grassland
Biological Resources Report for the North City Project

FIGURE 2-2Q
Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

LEGEND
- Project Study Area
- No Survey Access
- Burrowing Owl Assessment
- Hermes Copper Butterfly Survey Areas
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - NVC, Non-vegetated Channel or Floodway
  - OW, Open Water
  - SCWRF, Southern Cottonwood-Willow Riparian Forest
  - SWRF, Southern Arroyo Willow Riparian Forest
  - SWS, Southern Willow Scrub

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Biological Resources Report for the North City Project

SOURCE: SANDAG, 2016

Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

LEGEND
- Project Study Area
- Burrowing Owl Survey Areas
- Burrowing Owl Assessment
- Hermes Copper Butterfly Survey Areas
- Vegetation Communities/Land Covers
  - AGR, General Agriculture
  - ARU, Arundo-Dominated Riparian
  - CLOW, Coast Live Oak Woodland
  - CSS, Diegan Coastal Sage Scrub
  - CSS-r, Diegan Coastal Sage Scrub-Restored
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - MFS, Mulefat Scrub
  - NNG, Non-native Grassland
  - NVF, Non-vegetated Channel or Floodway
  - dMFS, disturbed Mulefat Scrub

FIGURE 2-2R

0 500 1,000 Feet
INTENTIONALLY LEFT BLANK
Biological Resources Report for the North City Project

SOURCE: SANDAG, 2016

Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

LEGEND
- Project Study Area
- Burrowing Owl Assessment
- Hermes Copper Butterfly Survey Areas
- Vegetation Communities/Land Covers
  - CLOW, Coast Live Oak Woodland
  - CSS, Diegan Coastal Sage Scrub
  - CSS-r, Diegan Coastal Sage Scrub-Restored
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - NNG, Non-native Grassland
  - NVC, Non-vegetated Channel or Floodway
  - OW, Open Water
  - SMX, Southern Mixed Chaparral

SCALE
- 1,000 Feet

FIGURE 2-2S
FIGURE 2-3A
Western Pond Turtle Survey Areas and Results

LEGEND

- Project Study Area
- Western Pond Turtle Location
- Western Pond Turtle Survey Area
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - CSS-CHP, Coastal Sage-Chaparral Transition
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - DW, Disturbed Wetland
  - EUC, Eucalyptus Woodland
  - FWM, Coastal and Valley Freshwater Marsh
  - MFS, Mulefat Scrub
  - NNG, Non-native Grassland
  - NNV, Non-native Vegetation
  - NNW, Non-native Woodland
  - OW, Open Water
  - SMC, Southern Mixed Chaparral
  - SWS, Southern Willow Scrub
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - dCSSB, disturbed Diegan Coastal Sage Scrub: Baccharis-dominated
  - dSMX, disturbed Southern Mixed Chaparral

0 500 1,000 Feet

SOURCE: SANDAG, 2016

Biological Resources Report for the North City Project
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FIGURE 2-3B
Western Pond Turtle Survey Areas and Results

LEGEND
- Project Study Area
- Western Pond Turtle Survey Area
- Vegetation Communities/Land Covers
  - CLOW, Coast Live Oak Woodland
  - CSS, Diegan Coastal Sage Scrub
  - CSS-r, Diegan Coastal Sage Scrub-Restored
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - NVC, Non-vegetated Channel or Floodway
  - OW, Open Water
  - SMX, Southern Mixed Chaparral

SOURCE: SANDAG, 2016
Biological Resources Report for the North City Project
FIGURE 2-3C
Western Pond Turtle Survey Areas and Results

LEGEND
- Project Study Area
- Western Pond Turtle Location
- Vegetation Communities/Land Covers
  - CLOW, Coast Live Oak Woodland
  - CSS, Diegan Coastal Sage Scrub
  - CSSB, Diegan Coastal Sage Scrub: Baccharis-dominated
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - MFS, Mulefat Scrub
  - NNG, Non-native Grassland
  - NNV, Non-native Vegetation
  - NVF, Non-vegetated Channel or Floodway
  - SCLO, Southern Coast Live Oak Riparian Forest
  - SRF, Southern Riparian Forest
  - SWRF, Southern Arroyo Willow Riparian Forest
  - dCLOW, disturbed Coast Live Oak Woodland
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - dSRF, disturbed Southern Riparian Forest

Biological Resources Report for the North City Project
SOURCE: SANDAG, 2016

0 1,000 500 Feet
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Figure 3-1B: Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

Legend:
- Project Study Area
- Coastal Zone Boundary
- Project Pipeline Alternatives
- Morena Wastewater Forcemain and Brine/Centrtrate Line
- Vegetation Communities/Land Covers
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNV, Non-native Vegetation
  - dFWM, disturbed Coastal and Valley Freshwater Marsh
- Multi-Habitat Planning Area

Source: City of San Diego 2016, 2017; SANDAG, 2015
FIGURE 3-1C

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

LEGEND
- Project Study Area
- Coastal Zone Boundary
- Project Pipeline Alternatives
- Morena Wastewater Forcemain and Brine/Centrate Line
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNV, Non-native Vegetation
- Multi-Habitat Planning Area

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

Biological Resources Report for the North City Project
Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

FIGURE 3-1D

Biological Resources Report for the North City Project

LEGEND
- Project Study Area
- Coastal Zone Boundary

Project Pipeline Alternatives
- Monterra Wastewater Forcemain and Brine/Centrate Line

Vegetation Communities/Land Covers
- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- NNV, Non-native Vegetation
- SWS, Southern Willow Scrub
- dCSS, disturbed Diegan Coastal Sage Scrub
- Multi-Habitat Planning Area

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

Biological Resources Report for the North City Project
FIGURE 3-1F

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

**LEGEND**
- **Project Study Area**
- **Project Pipeline Alternatives**
  - Moreno Wastewater Force Main and Brine/Centrate Line
  - Trenchless Segments of Alignment
- **Special Status Species**
  - coastal California gnatcatcher
  - western pond turtle
- **Sensitive Plants**
  - Artemisia palmeri

**Jurisdictional Aquatic Resources**
- Non-wetland Waters (ACOE/RWQCB/CDFW)
- Wetland or Riparian Area (CDFW Only)

**Non-wetland Water (ACOE/RWQCB)/Riparian Area (CDFW)**

**Vegetation Communities/Land Covers**
- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- CSSB, Diegan Coastal Sage Scrub: Baccharis-dominated
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- MFS, Mulefat Scrub
- NNG, Non-native Grassland
- NNV, Non-native Vegetation
- NVC, Non-vegetated Channel or Floodway
- SCLO, Southern Coast Live Oak Riparian Forest
- SRF, Southern Riparian Forest
- SSWRF, Southern Arroyo Willow Riparian Forest
- dCLOW, disturbed Coast Live Oak Woodland
- dCSS, disturbed Diegan Coastal Sage Scrub
- dSRF, disturbed Southern Riparian Forest
- Multi-Habitat Planning Area

**SOURCE:** City of San Diego 2016, 2017; SANDAG, 2016

Biological Resources Report for the North City Project
Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

LEGEND

- Project Study Area
- Project Pipeline Alternatives
  - Moreno Wastewater Forcemain and Brine/Centrifuge Line
  - Trenchless Segments of Alignment
- Special Status Species
  - Cooper's hawk
  - yellow warbler
- Sensitive Plants
  - Ceanothus verrucosus
  - Iva hayesiana
  - Romneya coulteri
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - FWM, Coastal and Valley Freshwater Marsh
  - NNV, Non-native Vegetation
  - SCLO, Southern Coast Live Oak Riparian Forest
  - SWRF, Southern Arroyo Willow Riparian Forest
  - SWS, Southern Willow Scrub
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - Multi-Habitat Planning Area

FIGURE 3-1G

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives
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Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

FIGURE 3-1H

LEGEND
Project Study Area
Project Pipeline Alternatives
North City Pure Water Pipeline
Morena Wastewater Forcemain and Brine/Concentrate Line
San Vicente Pure Water Pipeline
Landfill Gas Pipeline
Trenchless Segments of Alignment
Air Valve and Blow-Off Valve Work Areas (10’x10’ - For San Vicente Reservoir Alternative
Project Facilities
North City Pure Water Facility
North City Water Reclamation Plant Expansion
North City Pure Water Facility Influent Pump Station

Special Status Species
Copper’s hawk
coastal California gnatcatcher
Sensitive Plants
Hymenocallis virgata ssp. elongata
 iceberg baywater
Hymenocallis donax
Selaginella chenilleana
Viguiera intricata
Basin Data
Vernal pool
Basin (SDFS present)
Basin
MCAS Mapped Watershed
Jurisdictional Aquatic Resources
Wetland or Riparian Area (CDFW Only)

Vegetation Communities/Land Covers
CSS, Diegan Coastal Sage Scrub
DEV, Urban/Developed
DH, Disturbed Habitat
EUC, Eucalyptus Woodland
FWM, Coastal and Valley Freshwater Marsh
MFS, Mulefat Scrub
NNV, Non-native Vegetation
NNV, Non-native Grassland
SCLO, Southern Coast Live Oak Riparian Forest
VP, Vernal Pool
dCSS, disturbed Diegan Coastal Sage Scrub
Multi-Habitat Planning Area

0 500 1,000 Feet
Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

LEGEND

- Project Study Area
- Project Pipeline Alternatives
  - North City Pure Water Pipeline
  - Moreno Wastewater Forcemain and Brine/Centrate Line
  - San Vicente Pure Water Pipeline
  - Repurposed Existing 36" Pipeline
  - Trenchless Segments of Alignment
  - Air Valve and Blow-Off Valve Work Areas (10’x10’) - Far San Vicente Reservoir Alternative
- Project Facilities
  - North City Pure Water Facility
  - North City Pure Water Pump Station
  - North City Water Reclamation Plant Expansion
  - North City Pure Water Renewable Energy Facility
  - North City Pure Water Facility Illuminated Pump Station
- Special Status Species
  - coastal California gnatcatcher
  - white-tailed kite
- Sensitive Plants
  - Calotropis versicolor
  - Helicteres isora
  - Microseris douglasii ssp. s. douglasii
  - Pachypodium pachypodium
  - Quercus dumosa
  - Selaginella amplexicaulis
  - Viguiera cinerea
- Basin Data
  - Vernal pool
  - Basin (SDFS present)
  - Basin (SDFS absent)
  - MCAS Aligned Watershed
- Jurisdictional Aquatic Resources
  - Wetted or Riparian Area (ACOE/RWQCB/CDFW)
  - Wetted or Riparian Area (CDFW Only)
- Vegetation Communities/Land Covers
  - ARU, Arundo-Dominated Riparian
  - CC, Chamise Chaparral
  - CSS, Diegan Coastal Sage Scrub
  - CSSr, Disturbed Diegan Coastal Sage Scrub-Restored
  - DEV, Urban/Developed
  - DH, Curtailed Habitat
  - FWM, Coastal and Valley Freshwater Marsh
  - MFS, Saltmarsh Scrub
  - NG, Native Grassland
  - NNG, Non-native Grassland
  - NNV, Non-native Vegetation
  - SWS, Southern Willow Scrub
  - VP, Vernal Pool
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - Multi-Habitat Planning Area

FIGURE 3-11
Figure 3-1J

Biological Resources Report for the North City Project

Source: City of San Diego 2016, 2017; SANDAG, 2016

LEGEND
- Project Study Area
- Project Pipeline Alternatives
  - North City Pure Water Pipeline
  - Trenchless Segments of Alignment
- Special Status Species
  - coastal California gnatcatcher
- Sensitive Plants
  - Iva hayesii
- Basin Data
  - Basin (SDFS present)
  - Basin
  - MCAS Mapped Watershed
- Vegetation Communities/Land Covers
  - CC, Chamise Chaparral
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - NNV, Non-native Vegetation
  - SMX, Southern Mixed Chaparral
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - Multi-Habitat Planning Area
Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

LEGEND

- Project Study Area
- Project Pipeline Alternatives
- North City Pure Water Pipeline
- Vegetation Communities/Land Covers
  - CSSB, Diegan Coastal Sage Scrub: Baccharis-dominated
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - SWS, Southern Willow Scrub

FIGURE 3-1K

Biological Resources - Miramar Reservoir Alternative
LEGEND

- Project Study Area
- Project Pipeline Alternatives
  - North City Pure Water Pipeline
  - Trenchless Segments of Alignment
- Jurisdictional Aquatic Resources
  - Non-wetland Waters (ACOE/RWQCB/CDFW)
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DEV-CC, Developed - Concrete Channel
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - Multi-Habitat Planning Area

FIGURE 3-1L

Biological Resources - Miramar Reservoir Alternative

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016
Figure 3-1M

Biological Resources - Miramar Reservoir Alternative

Legend

- Project Study Area
- Project Pipeline Alternatives
  - North City Pure Water Pipeline
  - North City Pure Water Pipeline - Subaqueous Pipeline
  - Trenchless Segments of Alignment
- Project Facilities
  - Pure Water Dechlorination Facility
  - Miramar Water Treatment Plant Improvements and Pump Station
- Special Status Species
  - Endangered or Threatened Species
  - Sensitive Plants
  - Special Status Vegetation
  - Jurisdictional Aquatic Resources
    - Non-wetland Waters (ACOE/RWQCB/CDPFW)
    - Wetland or Riparian Area (ACOE/RWQCB/CDPFW)
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - CSS-CHP, Coastal Sage-Chaparral Transition
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - DW, Disturbed Wetland
  - EUC, Eucalyptus Woodland
  - FWM, Coastal and Valley Freshwater Marsh
  - MFS, Mulefat Scrub
  - NNG, Non-native Grassland
  - NNW, Non-native Woodland
  - OW, Open Water
  - SMX, Southern Mixed Chaparral
  - SWS, Southern Willow Scrub
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - dCSSB, disturbed Diegan Coastal Sage Scrub: Baccharis-dominated
  - dSMX, disturbed Southern Mixed Chaparral
  - Multi-Habitat Planning Area

Source: City of San Diego 2016, 2017; SANDAG, 2016

Biological Resources Report for the North City Project

LEGEND

0 1,000 Feet

0 500

HOYT PARK

MEANLEY DR

SCRIPPS RANCH BLVD

SCRIPPS LAKE DR

Biological Resources Report for the North City Project
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Biological Resources Report for the North City Project

FIGURE 3-1N

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives
FIGURE 3-10
Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016
Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

**Legend**

- **Project Study Area**
- **Project Pipeline Alternatives**
  - San Vicente Pure Water Pipeline
  - Repurposed Existing 36" Pipeline
  - Air Valve and Blow-Off Valve Work Areas (10’x10’) - For San Vicente Reservoir Alternative
- **Project Facilities**
  - Metro biosolids center improvements
- **Special Status Species**
  - coastal California gnatcatcher
  - willow flycatcher
  - yellow warbler
  - yellow-breasted chat
- **Sensitive Plants**
  - Ceanothus verrucosus
  - Chrysothamnus pumilus var. longispina
  - Hakea virginia var. elongate
  - Lactuca miniata var. discumbens
  - Quercus tremula
  - Salix nigra var. ohiensis
- **Basin Data**
  - Vernal pool (SDFS present)
  - Basin (SDFS present)
  - Beam
- **Jurisdictional Aquatic Resources**
  - Non-wetland Waters (ACOE/RWQCB/CDFW)
  - Wetland or Riparian Area (CDFW Only)
- **Vegetation Communities/Land Covers**
  - CSS, Diegan Coastal Sage Scrub
  - CSS-CHP, Coastal Sage-Chaparral Transition
  - CSSB, Diegan Coastal Sage Scrub: Baccharis-dominated
  - DVC, Urban/Developed
  - Dd, Disturbed Habitat
  - NNG, Non-native Grassland
  - NNV, Non-native Vegetation
  - NVL, Non-vegetated Channel or Floodway
  - SACPW, Southern Sycamore-Alder Riparian Woodland
  - SSW, Southern Willow Scrub
  - SOC, Scrub Oak Chaparral
  - SRF, Southern Riparian Forest
  - SMX, Southern Mixed Chaparral
  - VPL, Vernal Pool
  - dCSSB, disturbed Diegan Coastal Sage Scrub: Baccharis-dominated
  - dSWS, disturbed Southern Willow Scrub
  - dNSVS, disturbed Non-native Sage Scrub
  - dSRF, disturbed Southern Riparian Forest
  - dSSW, disturbed Southern Willow Scrub
  - dSOC, disturbed Scrub Oak Chaparral
  - dDVC, disturbed Urban/Developed
  - dVPL, disturbed Vernal Pool
  - dNSVS, disturbed Non-native Sage Scrub
  - dSRF, disturbed Southern Riparian Forest
  - dSSW, disturbed Southern Willow Scrub
  - dSOC, disturbed Scrub Oak Chaparral
  - dDVC, disturbed Urban/Developed
  - dVPL, disturbed Vernal Pool
  - dNSVS, disturbed Non-native Sage Scrub
  - dSRF, disturbed Southern Riparian Forest
  - dSSW, disturbed Southern Willow Scrub
  - dSOC, disturbed Scrub Oak Chaparral
  - dDVC, disturbed Urban/Developed
  - dVPL, disturbed Vernal Pool
  - dNSVS, disturbed Non-native Sage Scrub
  - dSRF, disturbed Southern Riparian Forest
  - dSSW, disturbed Southern Willow Scrub
  - dSOC, disturbed Scrub Oak Chaparral
  - Multi-Habitat Planning Area

**Figure 3-1P**

Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016
Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2018

FIGURE 3-1Q

Biological Resources - San Vicente Reservoir Alternative

LEGEND
- Project Study Area
- Project Pipeline Alternatives
  - San Vicente Pure Water Pipeline
  - Trenchless Segments of Alignment
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - CSS-CHP, Coastal Sage-Chaparral Transition
  - DEV, Urban/Developed
  - EUC, Eucalyptus Woodland
  - FWM, Coastal and Valley Freshwater Marsh
  - NNV, Non-native Vegetation
  - SOC, Scrub Oak Chaparral
  - dSWS, disturbed Southern Willow Scrub
  - Multi-Habitat Planning Area

SOURCES

- BIOLOGICAL RESOURCES ASSOCIATION (1978)
- CALIFORNIA DEPARTMENT OF FISHERIES AND WILDLIFE (1980)
- CITY OF SAN DIEGO (2016)
LEGEND

Project Study Area

Project Pipeline Alternatives

- San Vicente Pure Water Pipeline
- Trenchless Segments of Alignment

Special Status Species

- coastal California gnatcatcher
- least Bell's vireo
- yellow warbler

Sensitive Plants

- Ferocactus viridescens
- Viguiera laciniata
- Lepidium virginicum var. robinsonii
- Viguiera laciniata

Jurisdictional Aquatic Resources

- Non-wetland Waters (ACOE/RWQCB/CDFW)
- Wetland or Riparian Area (CDFW Only)

Vegetation Communities/Land Covers

- CSS, Diegan Coastal Sage Scrub
- CSSB, Diegan Coastal Sage Scrub: Baccharis-dominated
- DEV, Urban/Developed
- DH, Disturbed Habitat
- DW, Disturbed Wetland
- EUC, Eucalyptus Woodland
- FWM, Coastal and Valley Freshwater Marsh
- NG, Native Grassland
- NNV, Non-native Vegetation
- NVC, Non-vegetated Channel or Floodway
- SCWRF, Southern Cottonwood-Willow Riparian Forest
- SWRF, Southern Arroyo Willow Riparian Forest
- SWS, Southern Willow Scrub
dCSS, disturbed Diegan Coastal Sage Scrub

Multi-Habitat Planning Area

Biological Resources - San Vicente Reservoir Alternative

FIGURE 3-1R

Biological Resources Report for the North City Project

The image contains a map with various symbols and labels indicating project study areas, project pipeline alternatives, special status species, and vegetation communities/land covers. The map highlights the San Vicente Pure Water Pipeline, Cooper's hawk, yellow warbler, Viguiera laciniata, and other vegetation communities such as Coast Live Oak Woodland (CLOW), Diegan Coastal Sage Scrub (CSS), Urban/Developed (DEV), Disturbed Habitat (DH), Eucalyptus Woodland (EUC), Non-native Vegetation (NNV), Southern Willow Scrub (SWS), and disturbed Diegan Coastal Sage Scrub (dCSS).

The map also includes a legend with symbols and their meanings, as well as a scale bar indicating distances in feet. The map is labeled as FIGURE 3-1S: Biological Resources - San Vicente Reservoir Alternative.
LEGEND

- Project Study Area
- Project Pipeline Alternatives
  - San Vicente Pure Water Pipeline
  - Trenchless Segments of Alignment
- Project Facilities
  - Mission Trails Booster Station
- Special Status Species
  - coastal California gnatcatcher
  - yellow warbler
- Sensitive Plants
  - Viguiera laciniata
  - Viguiera laciniata
- Federally Designated Critical Habitat
  - Least Bell’s Vireo
- Jurisdictional Aquatic Resources
  - Non-wetland Waters (ACOE/RWQCB/CDFW)
- Vegetation Communities/Land Covers
  - ARU, Arundo-Dominated Riparian
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - FWM, Coastal and Valley Freshwater Marsh
  - NW, Non-native Woodland
  - OW, Open Water
  - SWS, Southern Willow Scrub
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - Multi-Habitat Planning Area

FIGURE 3-1T
Biological Resources - San Vicente Reservoir Alternative

SOURCE: City of San Diego 2016, 2017; SANDAG, 2018
Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

Biological Resources - San Vicente Reservoir Alternative

LEGEND

- Project Study Area
- Project Pipeline Alternatives
- San Vicente Pure Water Pipeline

Special Status Species

- coastal California gnatcatcher
- mule deer
- orangethroat whiptail
- rosy boa
- southern California rufous-crowned sparrow
- two-striped gartersnake

Sensitive Plants

- Lepidium virginicum var. robinsonii
- Viguiera laciniata

Federally Designated Critical Habitat

- Least Bell’s Vireo

Vegetation Communities/Land Covers

- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- NNG, Non-native Grassland
- NNV, Non-native Vegetation
- SCLD, Southern Coast Live Oak Riparian Forest
- SMX, Southern Mixed Chaparral
- SWS, Southern Willow Scrub
- dCSS, disturbed Diegan Coastal Sage Scrub

Multi-Habitat Planning Area

FIGURE 3-1U

Feet
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Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2018

FIGURE 3-1V

Biological Resources - San Vicente Reservoir Alternative

LEGEND
- Project Study Area
- Project Pipeline Alternatives
  - San Vicente Pure Water Pipeline
  - Trenchless Segments of Alignment
- Special Status Species
  - Cooper's hawk
  - least Bell's vireo
  - mule deer
  - orange-throated whiptail
  - southern California rufous-crowned sparrow
  - yellow warbler
  - yellow-breasted chat
- Sensitive Plants
  - Juglans californica
  - Lepidium virginicum var. robinsonii
  - Viguiera laciniata
- Federally Designated Critical Habitat
  - Least Bell's Vireo
  - San Diego Ambrosia
- Jurisdictional Aquatic Resources
  - Non-wetland Waters (ACOE/RWQCB/CDFW)
  - Wetland or Riparian Area (ACOE/RWQCB/CDFW)
  - Wetland or Riparian Area (CDFW Only)
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - NNW, Non-native Woodland
  - NVC, Non-vegetated Channel or Floodway
  - SMX, Southern Mixed Chaparral
  - SWRF, Southern Arroyo Willow Riparian Forest
- Multi-Habitat Planning Area

0 500 1,000 Feet
Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2013

FIGURE 3-1W

Biological Resources - San Vicente Reservoir Alternative

LEGEND

- Project Study Area
- Project Pipeline Alternatives
  - San Vicente Pure Water Pipeline
  - Trenchless Segments of Alignment
- Special Status Species
  - Cooper's hawk
  - least Bell's vireo
  - yellow-breasted chat
- Federally Designated Critical Habitat
- Least Bell's Vireo
- Jurisdictional Aquatic Resources
  - Wetland or Riparian Area (ACOE/RWQCB/CDFW)
- Vegetation Communities/Land Covers
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - NNW, Non-native Woodland
  - SWS, Southern Willow Scrub
  - dSWS, disturbed Southern Willow Scrub
  - Multi-Habitat Planning Area

CARLTON OA KS DR

PIKE RD

MASSOT AVE

RUMSON DR

SR-52 WB

SR-52 EB

0

500

1,000

Feet
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Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

FIGURE 3-1Y

Biological Resources - San Vicente Reservoir Alternative

LEGEND

Project Study Area
Project Pipeline Alternatives

San Vicente Pure Water Pipeline

Special Status Species

coastal California gnatcatcher

Jurisdictional Aquatic Resources

Potential Wetland or Riparian Area (ACOE/RWQCB/CDFW)

Wetland or Riparian Area (RWQCB/CDFW)

Vegetation Communities/Land Covers

CSS, Diegan Coastal Sage Scrub

DEV, Urban/Developed

DH, Disturbed Habitat

NNG, Non-native Grassland

0 300 600 900 1,200
Feet
Biological Resources Report for the North City Project

Biological Resources - San Vicente Reservoir Alternative

LEGEND

- Project Study Area
- Project Pipeline Alternatives
  - San Vicente Pure Water Pipeline
- Special Status Species
  - Cooper’s hawk
  - Western bluebird
  - brown-headed cowbird
  - coastal California gnatcatcher
  - least Bell’s vireo
  - yellow warbler
  - yellow-breasted chat
- Sensitive Plants
  - Viguiera laciniata
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - NNG, Non-native Grassland
  - NVC, Non-vegetated Channel or Floodway
  - OW, Open Water
  - SCWRF, Southern Cottonwood-Willow Riparian Forest
  - SWRF, Southern Arroyo Willow Riparian Forest
  - SWS, Southern Willow Scrub

FIGURE 3-1Z

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016
Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2019

FIGURE 3-1AA
Biological Resources - San Vicente Reservoir Alternative

Legend
- Project Study Area
- Project Pipeline Alternatives
  - San Vicente Pure Water Pipeline
- Special Status Species
  - brown-headed cowbird
  - yellow warbler
- Jurisdictional Aquatic Resources
  - Non-wetland Water (ACOE/RWQCB)/Riparian Area (CDFW)
- Vegetation Communities/Land Covers
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - NVC, Non-vegetated Channel or Floodway
  - SWS, Southern Willow Scrub

0 500 1,000 Feet
Biological Resources Report for the North City Project

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

FIGURE 3-1AB

Biological Resources - San Vicente Reservoir Alternative
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LEGEND

- Project Study Area
- Project Pipeline Alternatives
  - San Vicente Pure Water Pipeline
  - San Vicente Pure Water Pipeline - In-Reservoir Alternative
  - San Vicente Pure Water Pipeline - Tunnel Alternative
  - San Vicente Pure Water Pipeline - Marina Alternative
  - Trenchless Segments of Alignment

Special Status Species
- coastal California gnatcatcher
- southern California Rufous-crowned sparrow

Sensitive Plants
- Lepidium virginicum
- Lepidium virginicum var. robinsonii
- Lepidium virginicum var. robustum
- Pseudognaphalium leucophaeum
- Selaginella cinerascens
- Selaginella cincta
- Viguiera laciniata

Jurisdictional Aquatic Resources
- Non-wetland Waters (ACOE/RWQCB/CDFW)
- Vegetation Communities/Land Covers
  - CLow, Coast Live Oak Woodland
  - CSS, Diegan Coastal Sage Scrub
  - CSS-R, Diegan Coastal Sage Scrub-Restored
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - NNG, Non-native Grassland
  - NVC, Non-vegetated Channel or Floodway
  - OW, Open Water
  - SMX, Southern Mixed Chaparral
  - Multi-Habitat Planning Area

FIGURE 3-1AC

Biological Resources - San Vicente Reservoir Alternative

SOURCE: City of San Diego 2016, 2017; SANDAG, 2018
Biological Resources Report for the North City Project

Source: City of San Diego 2016, 2017; SANDAG, 2016

FIGURE 3-1AD

Biological Resources - San Vicente Reservoir Alternative