**Project Features**

- **Pole Type**
  - Guy
  - LWSP
  - TSP
- **Guard Structures**
- **Access Roads**
- **Material Yards**
- **Subtransmission Route**
  - Segment 1
  - Segment 2
  - Segment 3
- **Fiber Optic Line**
  - Overhead Fiber Optic Cable
  - Underground Fiber Optic in Existing Conduit
  - Underground Fiber Optic in New Conduit
- **Drainage Control Features (90%)**
  - Culvert
  - Gelcon
  - Rip-Rap

**Impact Areas**

- **Permanent**
- **Temporary**
- **Tree Trimming Areas**
- **Impacted Jurisdictional Features**
  - MSCHP Riverine/Riparian Areas
  - MSCHP Biological Resources Technical Report
- **Waters of the U.S. and Waters of the State of California**
- **Wetland**
- **Existing Culvert**

---

**Legend**

- **Map Notes:**
  - Project Features subject to change based on geotechnical investigations, final engineering, ongoing coordination with the resource agencies, and field assessments conducted prior to construction.
  - Map Current as of 10/9/2014.

**Appendix A2** - Proposed Impacts to Riverine/Riparian Areas

MSCHP Biological Resources Technical Report for the Valley-Ivyglen Subtransmission Line Project
Phase 1
Riverside County, California
GOETZ RD
VIG1-3
Non-Wetland Waters of the US and Waters of the State
Unvegetated Channel
093E
091E
092E
1 inch = 50 feet

Project Features*

Pole Type
- Guy
- LVSP
- Tower
- TSP
- Guard Structures
- Access Roads
- Material Yards

Subtransmission Route
- Segment 1
- Segment 2
- Segment 3

Fiber Optic Line
- Overhead Fiber Optic Cable
- Underground Fiber Optic in Existing Conduit
- Underground Fiber Optic in New Conduit

Drainage Control Features (90%)

Legend

Culvert
- Geocnon
- Re-Flow

Impact Areas*
- Permanent
- Temporary
- Tree Trimming Areas

Impacted Jurisdictional Features

MSCHP Riverine/Riparian Areas
- Riparian
- Riverine
- Vernal Pool

Potential Jurisdictional Waters (AMEC)
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

Appendix A2 - Proposed Impacts to Riverine/Riparian Areas
MSCHP Biological Resources Technical Report for the Valley-Ivyglen Subtransmission Line Project
Phase 1
Riverside County, California

Map 2
Appendix A2 - Proposed Impacts to Riverine/Riparian Areas
MSHCP Biological Resources Technical Report for the Valley-Ivyglen Subtransmission Line Project
Phase 1
Riverside County, California
Project Features*

- Guy
- LWSP
- TSP
- Guard Structures
- Access Roads
- Material Yards
- Subtransmission Route
  - Segment 1
  - Segment 2
  - Segment 3
- Fiber Optic Line
  - Overhead Fiber Optic Cable
  - Underground Fiber Optic in Existing Conduit
  - Underground Fiber Optic in New Conduit
- Drainage Control Features (90%)
  - Culvert
  - Geocell
  - Rip-Rap
  - Gabion
  - Rip-Rap
  - Vernal Pool

Impact Areas*

- Permanent
- Temporary
- Tree Trimming Areas
- MSCHP Riverine/Riparian Areas
  - Riparian
  - Riverine
  - Vernal Pool
- Potential Jurisdictional Waters (AMEC)
  - Waters of the U.S. and Waters of the State of California
  - Wetland

Impact Areas for the Valley-Ivyglen Subtransmission Line Project
Phase 1
Riverside County, California

* Map Notes:
- Project Features subject to change based on geological investigations, final engineering, ongoing coordination with the resource agencies, and field protection and construction plan in coordination with the respective agencies.
- Map Current as of 10/9/2014

Appendix A2 - Proposed Impacts to Riverine/Riparian Areas
MSCHP Biological Resources Technical Report for the Valley-Ivyglen Subtransmission Line Project Phase 1
Riverside County, California
The 0.123-acre (total) polygons identified are sparsely populated with riparian vegetation that will be trimmed every 1-2 years. The tree trimming calculation provided is "worst-case" and this area of impact will be refined and reduced during construction to the greatest extent possible.

---

**Map Notes:**
- Project Features subject to change based on geotechnical investigations, final engineering, ongoing coordination with the resource agencies, and field data and field conditions prior to construction.
- Map Current as of 10/9/2014

**Appendix A2 - Proposed Impacts to Riverine/Riparian Areas**

MSHCP Biological Resources Technical Report for the Valley-Ivyglen Subtransmission Line Project Phase 1

Riverside County, California
Appendix A2 - Proposed Impacts to Riverine/Riparian Areas

MSHCP Biological Resources Technical Report for the Valley-Ivyglen Subtransmission Line Project
Phase 1
Riverside County, California

Non-Wetland Waters of the US and Waters of the State
Non-native Grassland

Legend

Project Features:
- Pole Type
  - Guy
  - LWSP
  - Tower
  - TSP
- Guard Structures
- Access Roads
- Material Yards
- Subtransmission Route
  - Segment 1
  - Segment 2
  - Segment 3
- Fiber Optic Line
  - Overhead Fiber Optic Cable
  - Underground Fiber Optic in Existing Conduit
  - Underground Fiber Optic in New Conduit
- Drainage Control Features (90%)
  - Culvert
  - Geocell
  - Rip-Rap
- Impact Areas:
  - Permanent
  - Temporary
  - Tree Trimming Areas
- Impacted Jurisdictional Features
  - MSCHP Riverine/Riparian Areas
  - Riparian
  - Riverine
  - Vernal Pool
- Potential Jurisdictional Waters (AMEC)
  - Waters of the U.S. and Waters of the State of California
  - Wetland
  - Existing Culvert

Map Notes:
- Project Features subject to change based on geotechnical investigations, final engineering, ongoing coordination with the resource agencies, and field evaluations conducted prior to construction.
- Map Current as of 10/9/2014
- Map prepared by AMEC
- Path: Q:\NaturalResources\SCE_ValleyIvyglen\mxd\2014\ReportsAndSubmissions\BTR\Phase1\ProposedImpactsToRiverineRiparian_Phase1.mxd, aaron.johnson 10/9/2014
Appendix A2 - Proposed Impacts to Riverine/Riparian Areas

MSHCP Biological Resources Technical Report for the Valley-Ivyglen Subtransmission Line Project
Phase 1
Riverside County, California
The 0.022-acre polygon identified is sparsely populated with riparian vegetation that will be trimmed every 1-2 years. The tree trimming calculation provided is “worst-case” and this area of impact will be refined and reduced during construction to the greatest extent possible.
Appendix A2 - Proposed Impacts to Riverine/Riparian Areas

MSHCP Biological Resources Technical Report for the Valley-Ivyglen Subtransmission Line Project
Phase 1
Riverside County, California

Legend

Project Features*

Pole Type

- Guy
- LWSP
- TSP
- Guard Structures
- Access Roads
- Material Yards

Subtransmission Route

- Segment 1
- Segment 2
- Segment 3

Fiber Optic Line

- Overhead Fiber Optic Cable
- Underground Fiber Optic in Existing Conduit
- Underground Fiber Optic in New Conduit

Drainage Control Features (90%)

- Culvert
- Gelcon
- Rip-Rap
- Tycon

Impact Areas*

- Permanent
- Temporary
- Tree Trimming Areas

Impacted Jurisdictional Features

- MSCHP Riverine/Riparian Areas
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

Potential Jurisdictional Waters (AMEC)

- Waters of the U.S. and Waters of the State of California
- Wetland

Map Note:

Project Features subject to change based on geotechnical investigations, final engineering, ongoing coordination with the resource agencies, and field evaluation of conduction and construction. Map Current as of 10/9/2014.
Appendix A2 - Proposed Impacts to Riverine/Riparian Areas

MSCHP Biological Resources Technical Report for the Valley-Ivyglen Subtransmission Line Project Phase 1

Riverside County, California

Map 11
Non-Wetland Waters of the US and Waters of the State
Southern Willow Scrub

The 0.017-acre polygons (total) identified are sparsely populated with riparian vegetation that will be trimmed every 1-2 years. The tree trimming calculation provided is "worst-case" and this area of impact will be refined and reduced during construction to the greatest extent possible.

Appendix A2 - Proposed Impacts to Riverine/Riparian Areas
MSCHP Biological Resources Technical Report for the Valley-Ivyglen Subtransmission Line Project Phase 1
Riverside County, California