

### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

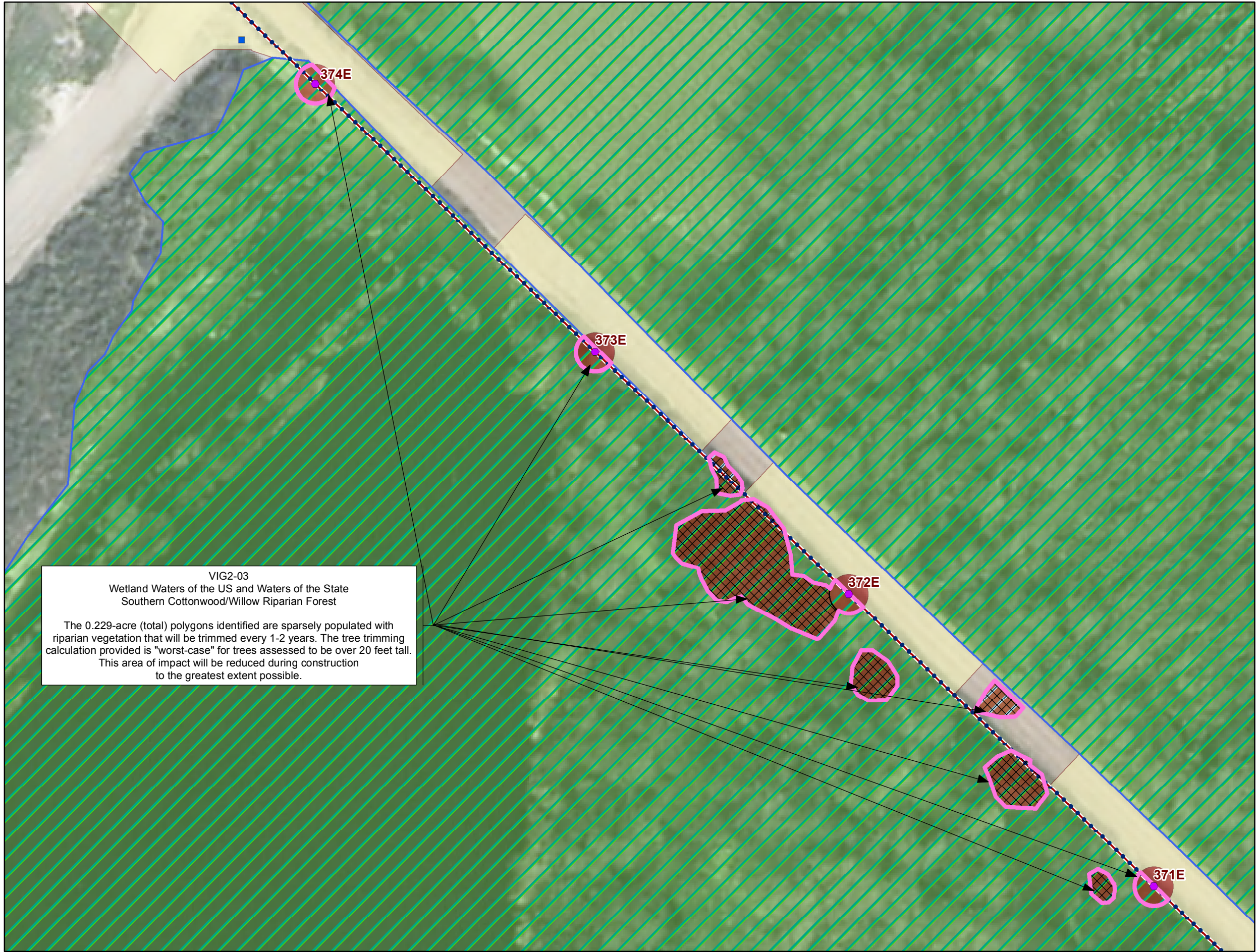
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 1**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

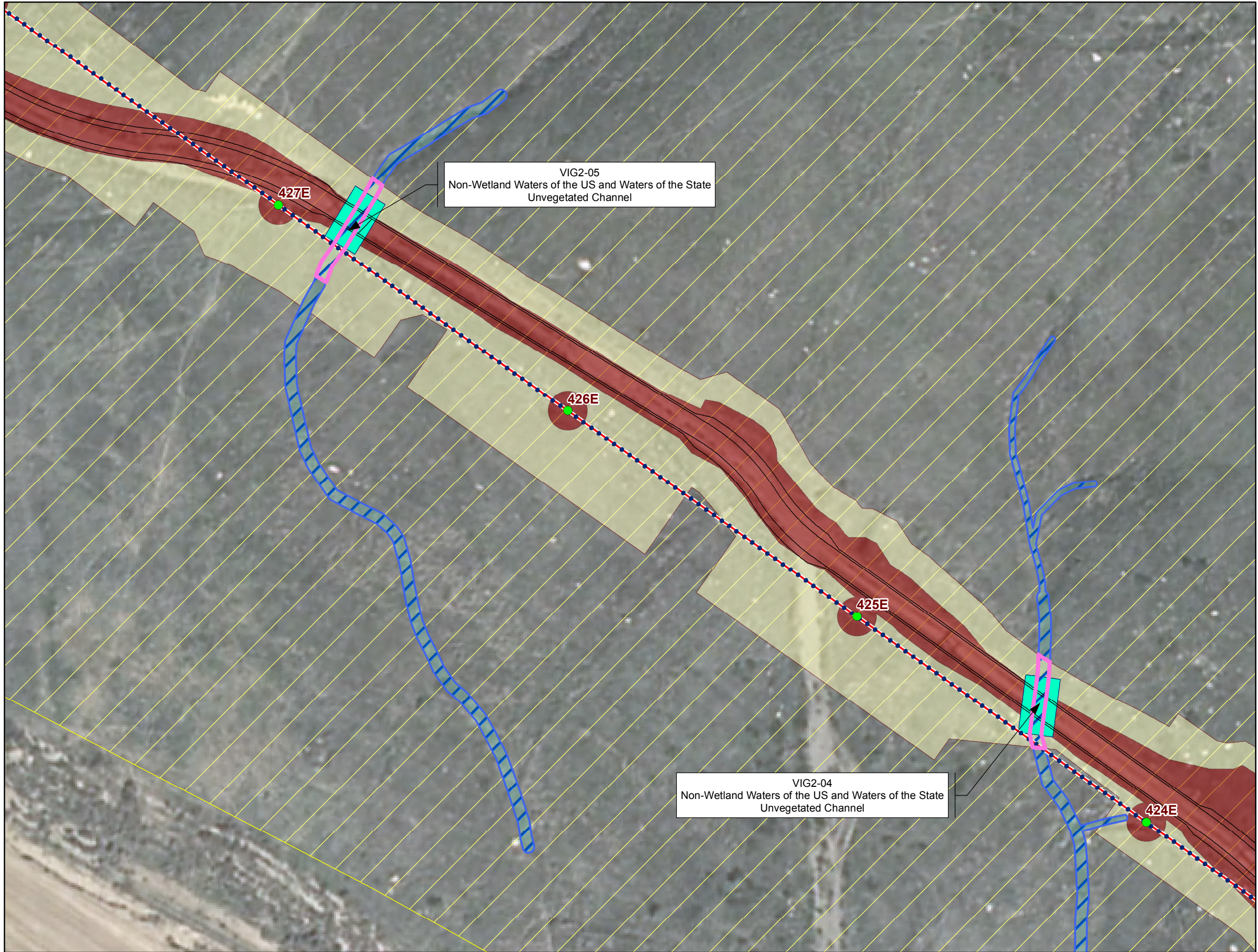
**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec** 1 inch = 50 feet

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

**Map 2**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

\* Map Notes:

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- Map Current as of 11/18/2014

amec

1 inch = 50 feet

0 25 50 Feet

N

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

**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 3**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- Rip-Rap

**Impact Areas\***

- Permanent
- Temporary
- Tree Trimming Areas
- Impacted Jurisdictional Features

**MSHCP Riverine/Riparian Areas**

- Riparian
- Riverine
- Vernal Pool

**Potential Jurisdictional Waters (AMEC)**

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

\* Map Notes:  
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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

**Map 4**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

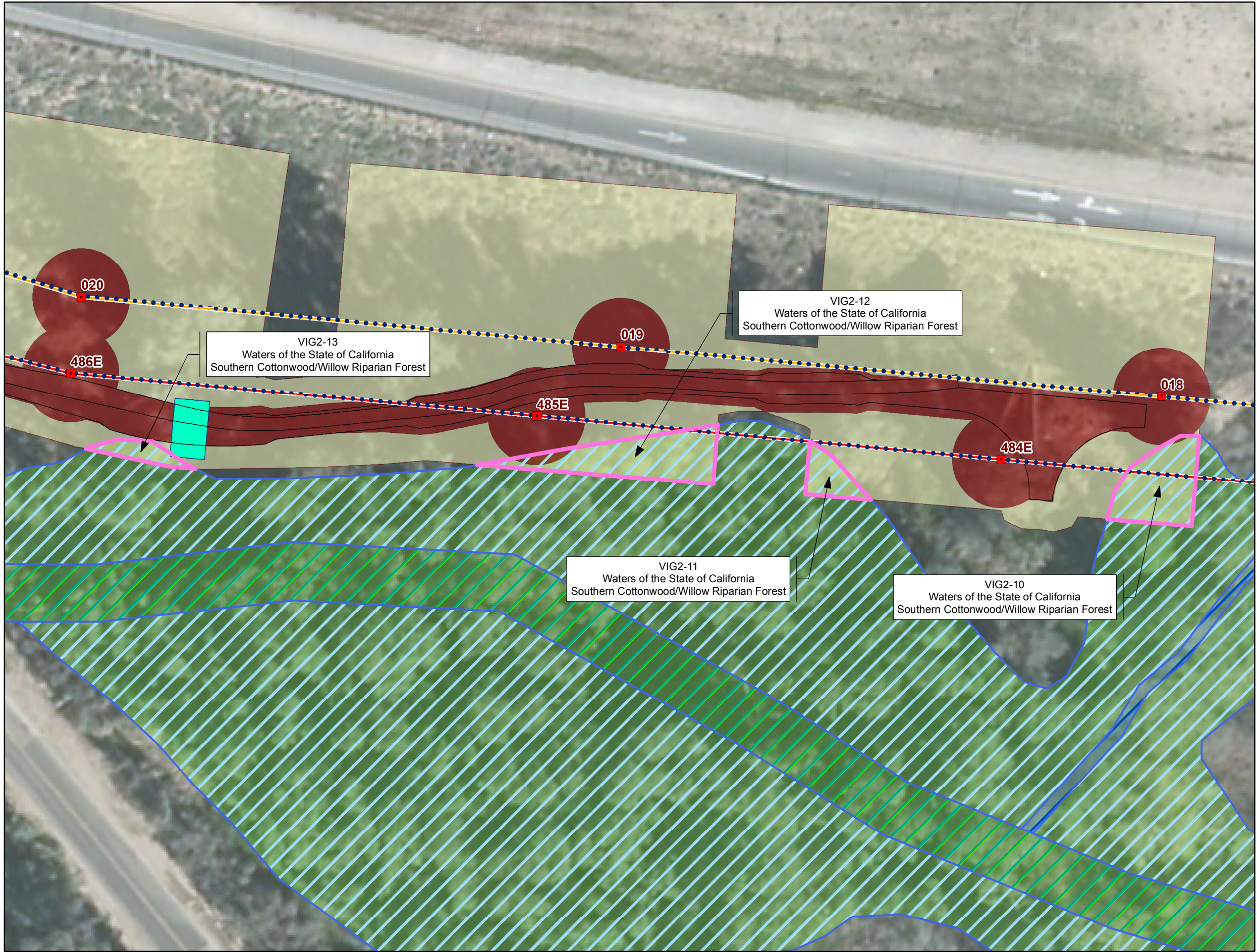
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 5**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

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

**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 6**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

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**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

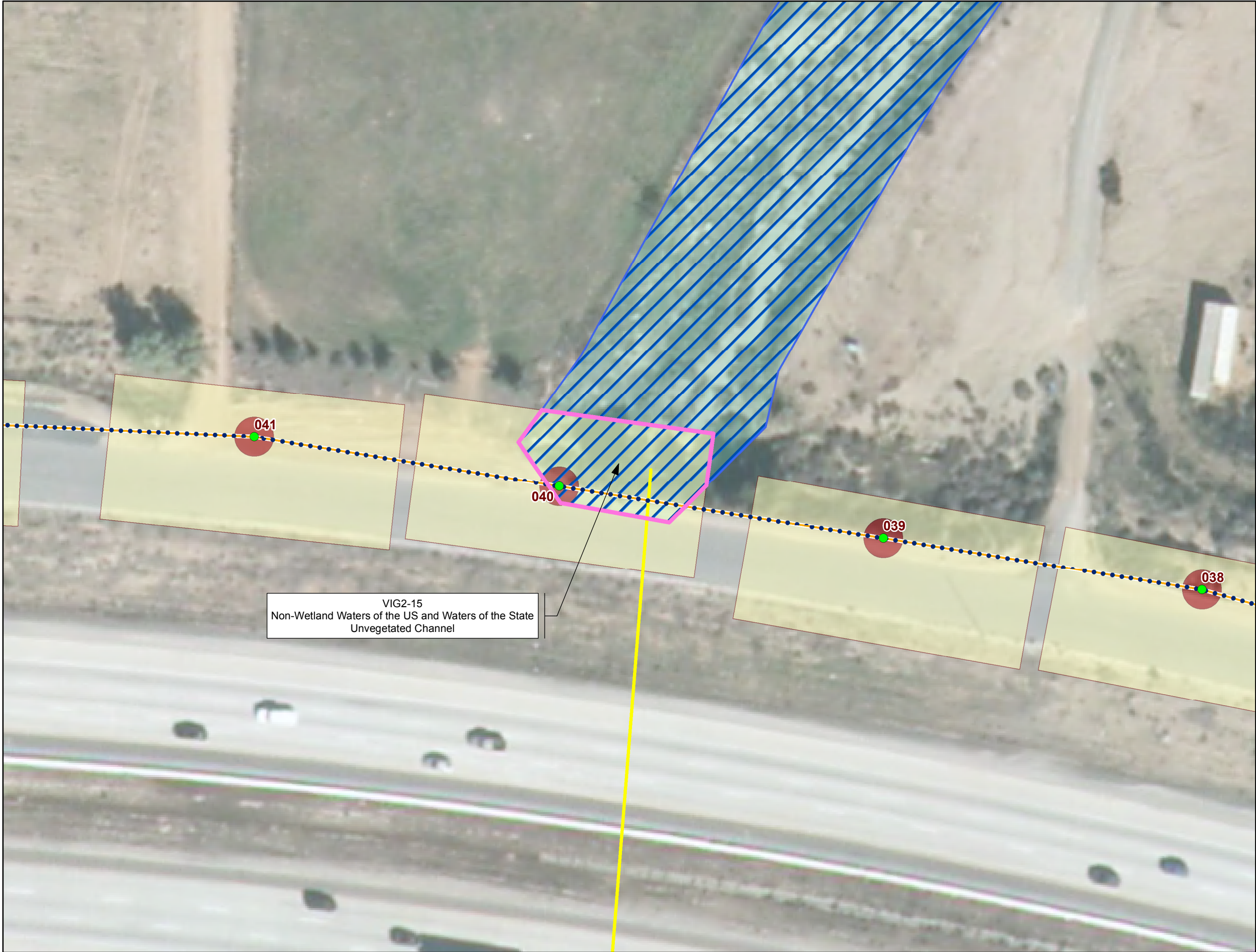
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 7**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

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- Map Current as of 11/18/2014

amec

1 inch = 50 feet

0 25 50 Feet

N

Appendix A2 - Proposed Impacts to Riverine/Riparian Areas

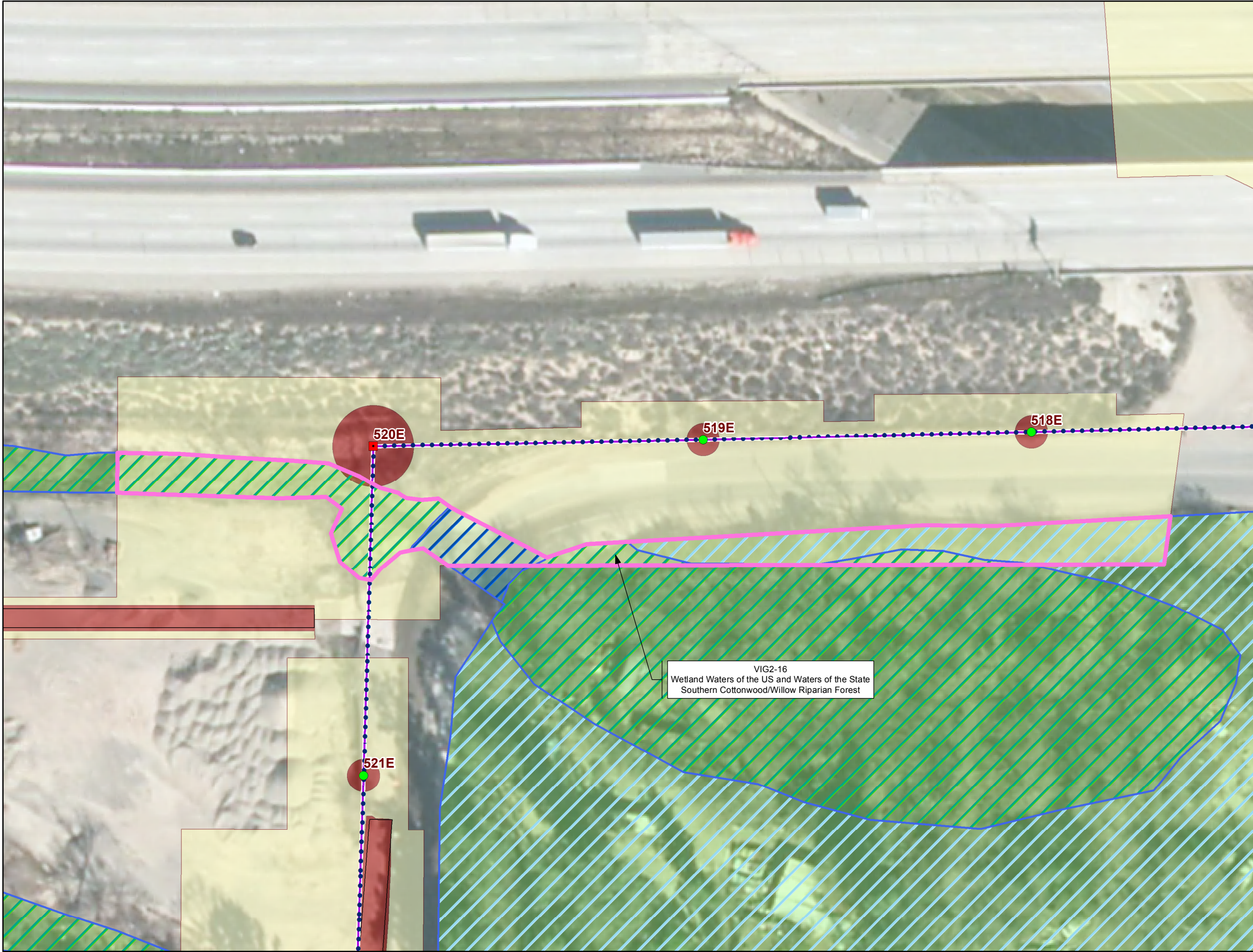
MSHCP Biological Resources Technical Report

for the Valley-Ivyglen Subtransmission Line Project

Phase 2

Riverside County, California

Map 8



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec**

1 inch = 60 feet

0 30 60 Feet

N

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

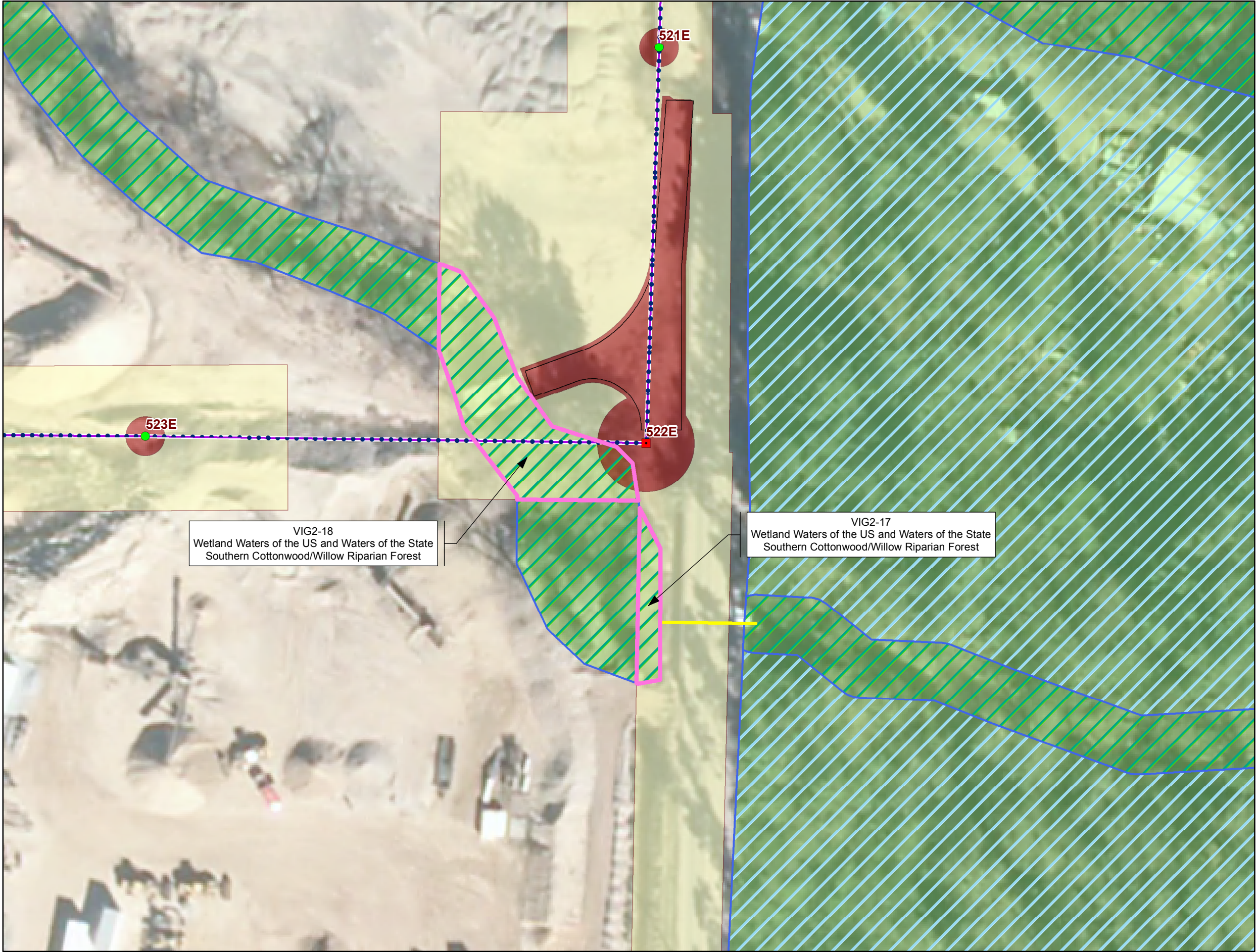
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 9**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

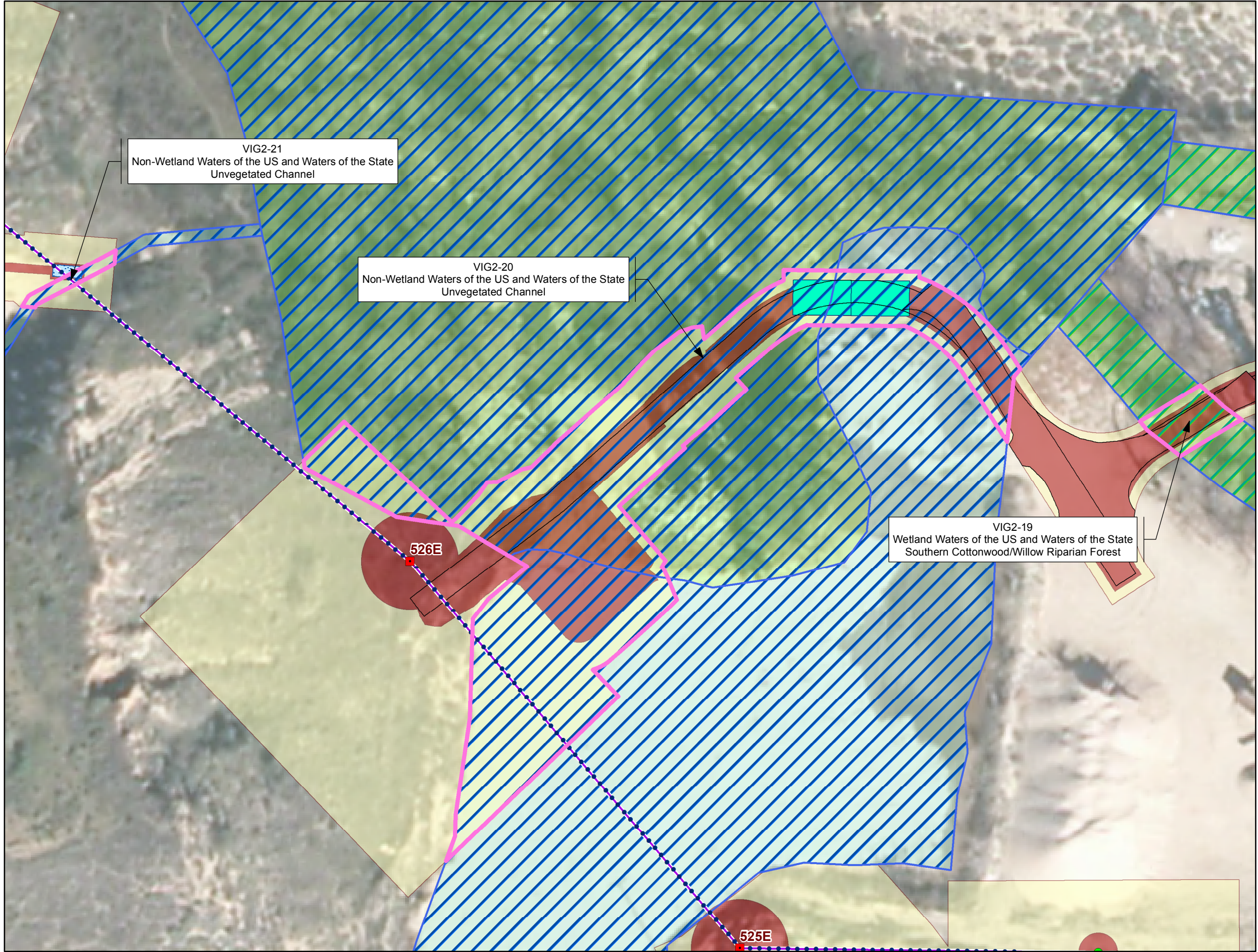
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 10**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- Rip-Rap

**Impact Areas\***

- Permanent
- Temporary
- Tree Trimming Areas
- Impacted Jurisdictional Features

**MSHCP Riverine/Riparian Areas**

- Riparian
- Riverine
- Vernal Pool

**Potential Jurisdictional Waters (AMEC)**

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

\* Map Notes:

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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 11**



VIG2-22  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

Legend

- Project Features\***
- Pole Type**
- Guy
  - LWSP (Guy Stub)
  - Hybrid
  - LWSP
  - Riser
  - Shoofly
  - TSP
  - Wood
  - Vault
  - Guard Structures
- Subtransmission Route**
- Segment 4
  - Segment 5
  - Segment 6
  - Segment 7
  - Segment 8
  - Shoofly
  - Access Roads
  - Material Yards
  - Conserved Lands (MSHCP)
- Fiber Optic Line**
- Overhead Fiber Optic Cable
  - Underground Fiber Optic in Existing Conduit
  - Underground Fiber Optic in New Conduit
- Drainage Control Features (90%)**
- New Culvert
  - Gabion
  - 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 State of California
  - Waters of the U.S. and Waters of the State of California
  - Wetland
  - Existing Culvert



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- Map Current as of 11/18/2014

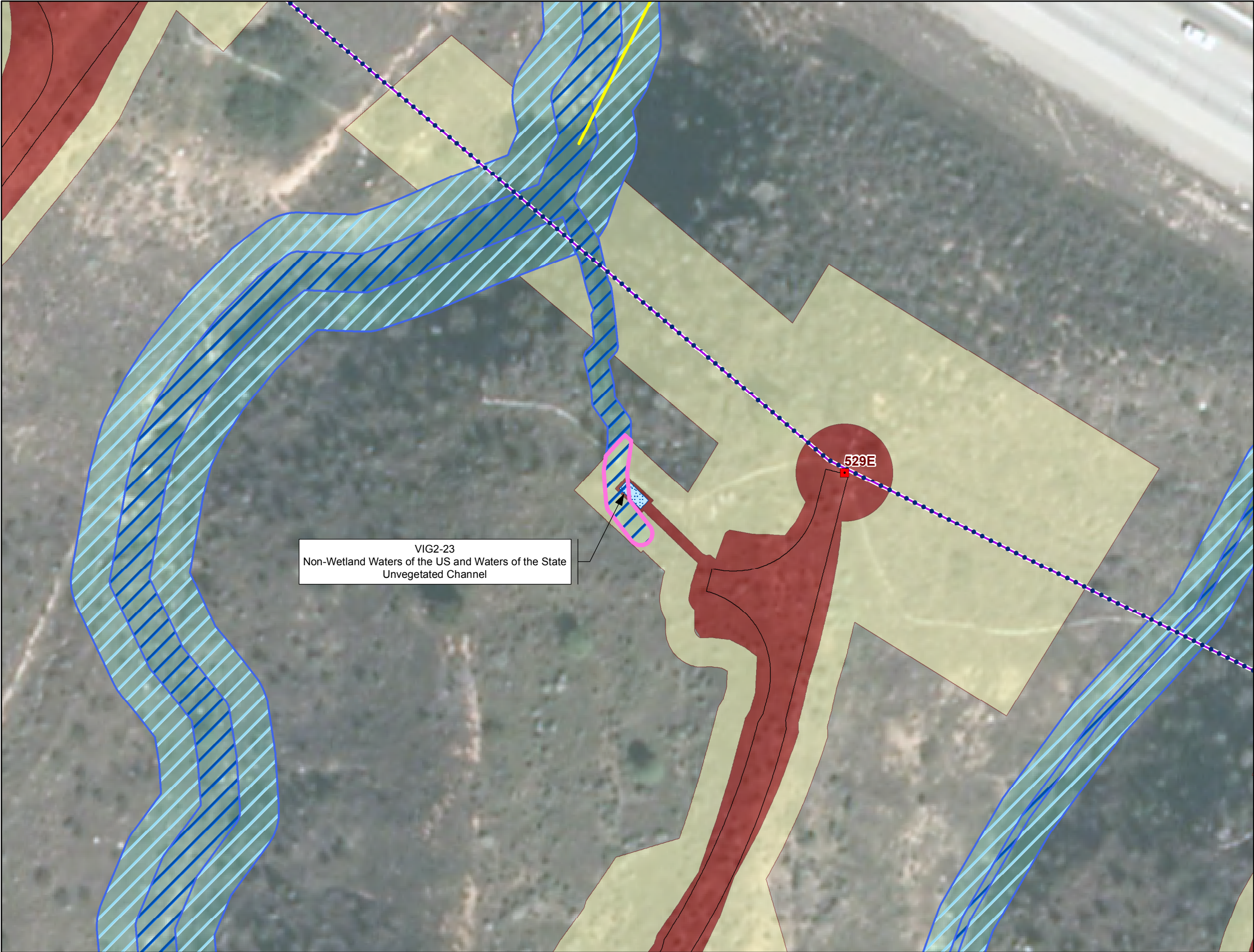
amec

1 inch = 50 feet

0 25 50 Feet

N

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



VIG2-23  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

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- Map Current as of 11/18/2014

**amec**

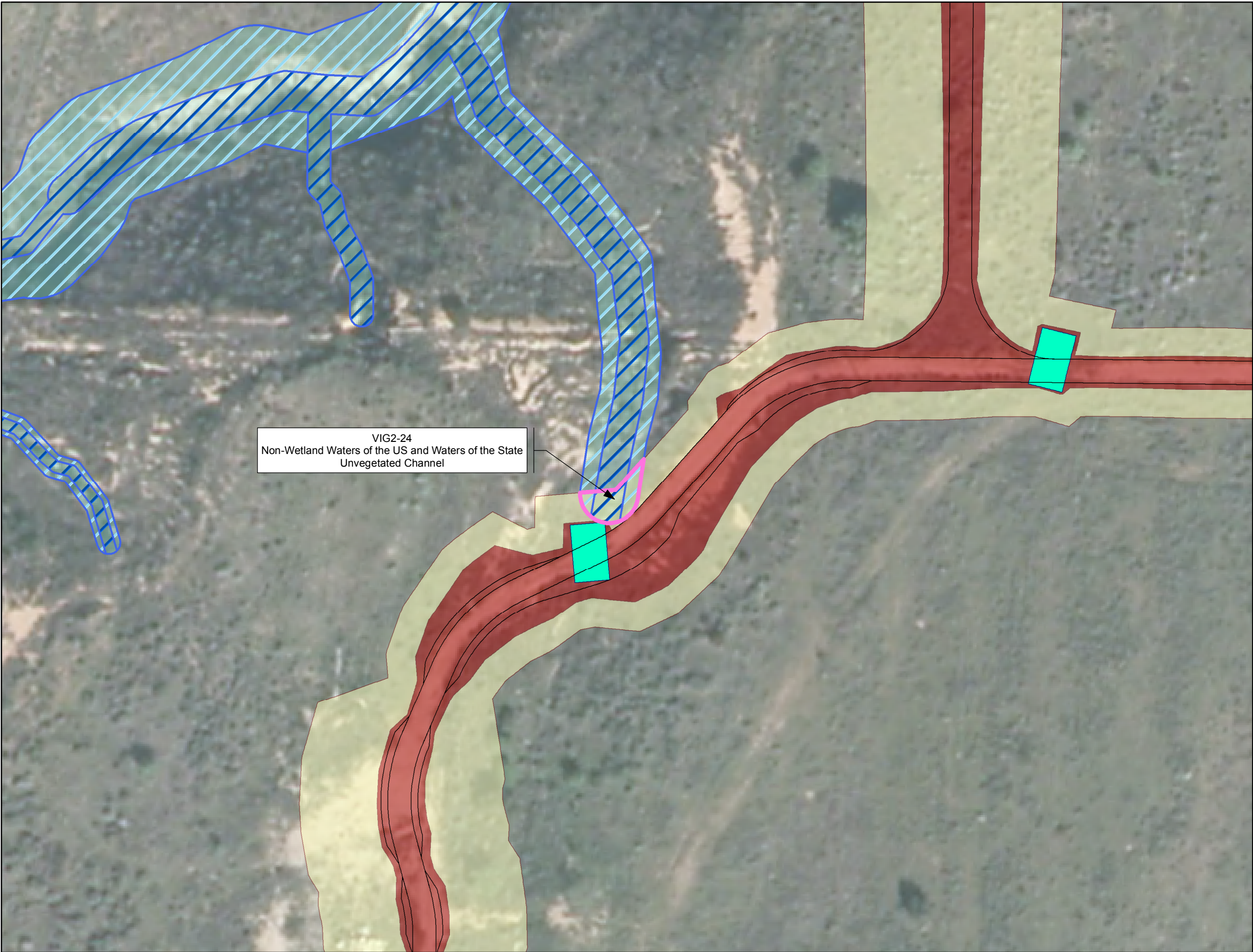
1 inch = 50 feet

0 25 50 Feet

N

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

**Map 13**



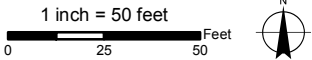
VIG2-24  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

Legend

- Project Features\***
- Pole Type**
- Guy
  - LWSP (Guy Stub)
  - Hybrid
  - LWSP
  - Riser
  - Shoofly
  - TSP
  - Wood
  - Vault
  - Guard Structures
- Subtransmission Route**
- Segment 4
  - Segment 5
  - Segment 6
  - Segment 7
  - Segment 8
  - Shoofly
  - Access Roads
  - Material Yards
  - Conserved Lands (MSHCP)
- Fiber Optic Line**
- Overhead Fiber Optic Cable
  - Underground Fiber Optic in Existing Conduit
  - Underground Fiber Optic in New Conduit
- Drainage Control Features (90%)**
- New Culvert
  - Gabion
  - Rip-Rap
- Impact Areas\***
- Permanent
  - Temporary
  - Tree Trimming Areas
  - Impacted Jurisdictional Features
- MSHCP Riverine/Riparian Areas**
- Riparian
  - Riverine
  - Vernal Pool
- Potential Jurisdictional Waters (AMEC)**
- Waters of the State of California
  - Waters of the U.S. and Waters of the State of California
  - Wetland
  - Existing Culvert



\* Map Notes:  
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- Map Current as of 11/18/2014



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





### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

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1 inch = 60 feet

0 30 60 Feet

N

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

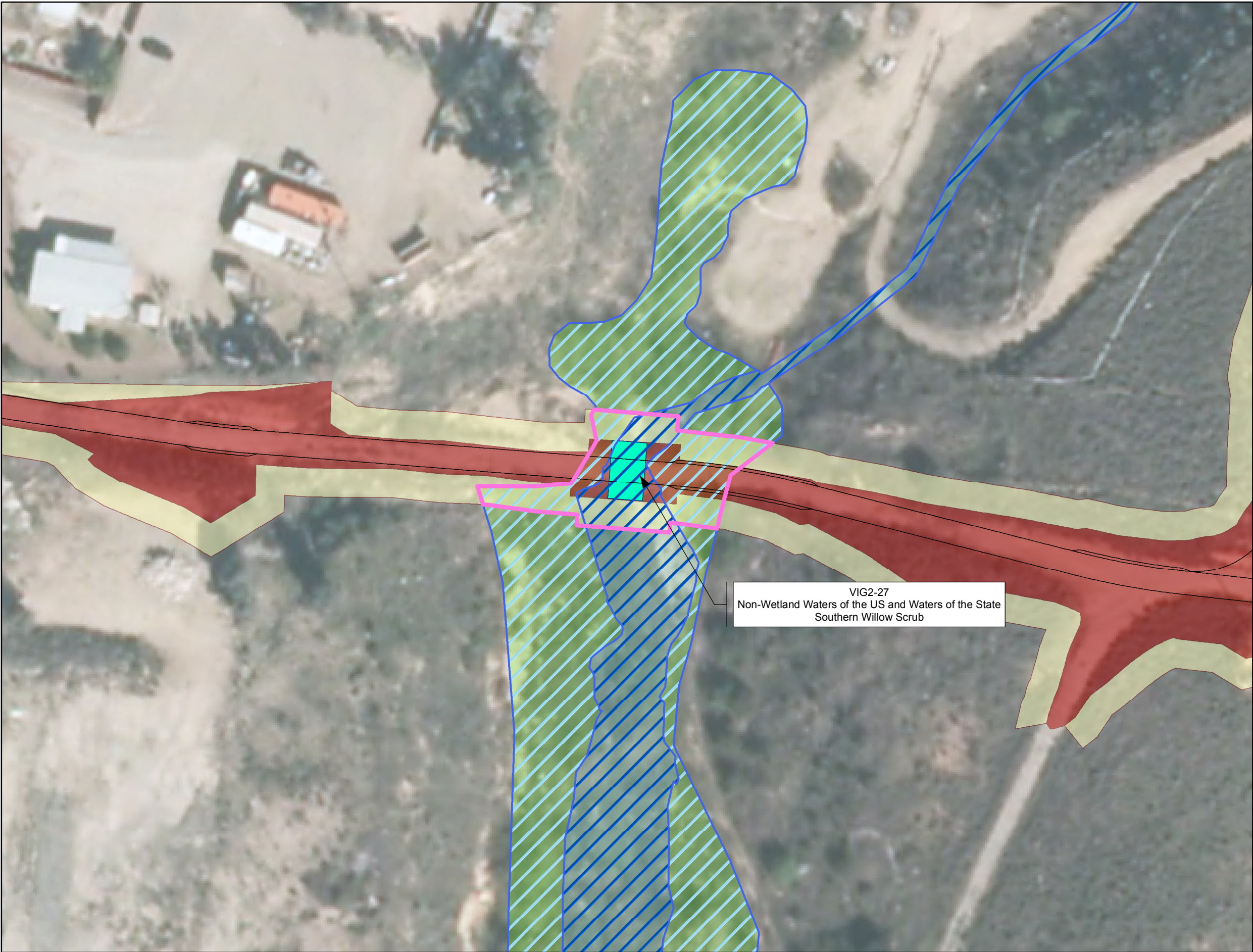
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 16**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- 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 assessments conducted prior to construction
- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

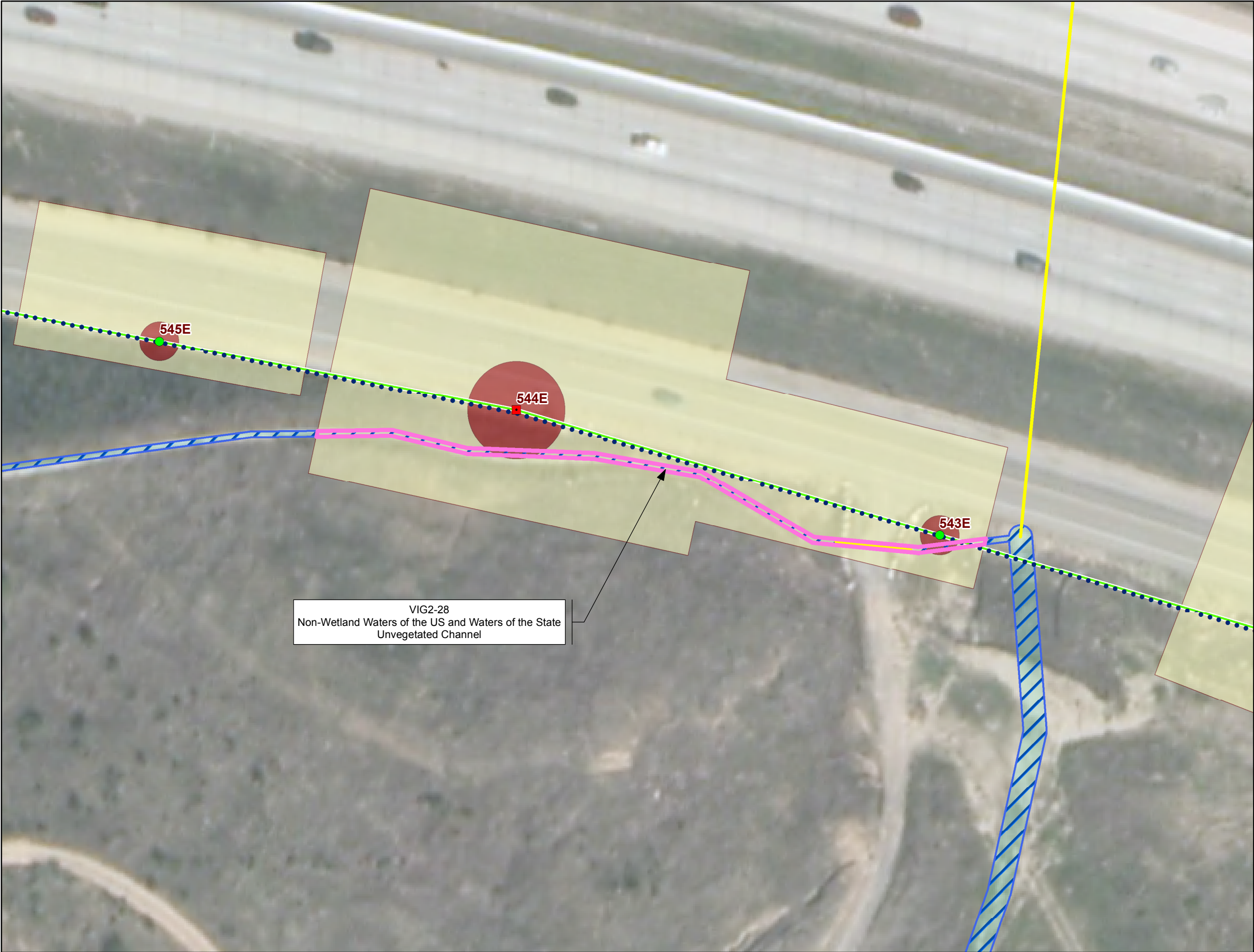
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 17**



VIG2-28  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

Legend

- Project Features\***
- Pole Type**
- Guy
  - LWSP (Guy Stub)
  - Hybrid
  - LWSP
  - Riser
  - Shoofly
  - TSP
  - Wood
  - Vault
  - Guard Structures
- Subtransmission Route**
- Segment 4
  - Segment 5
  - Segment 6
  - Segment 7
  - Segment 8
  - Shoofly
  - Access Roads
  - Material Yards
  - Conserved Lands (MSHCP)
- Fiber Optic Line**
- Overhead Fiber Optic Cable
  - Underground Fiber Optic in Existing Conduit
  - Underground Fiber Optic in New Conduit
- Drainage Control Features (90%)**
- New Culvert
  - Gabion
  - 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 State of California
  - Waters of the U.S. and Waters of the State of California
  - Wetland
  - Existing Culvert



\* Map Notes:  
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- Map Current as of 11/18/2014

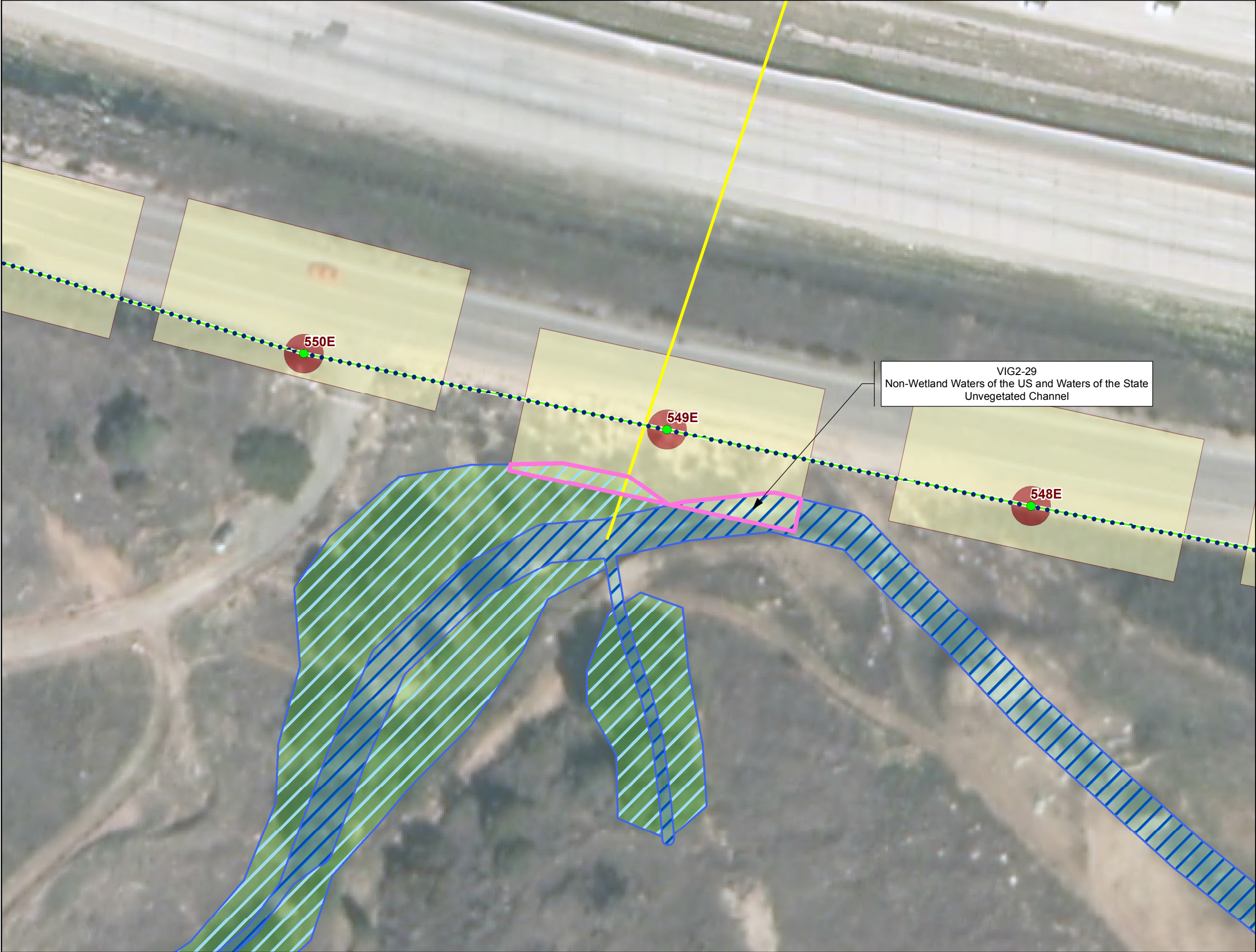
amec

1 inch = 50 feet

0 25 50 Feet

N

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



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

1 inch = 50 feet

0 25 50 Feet

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

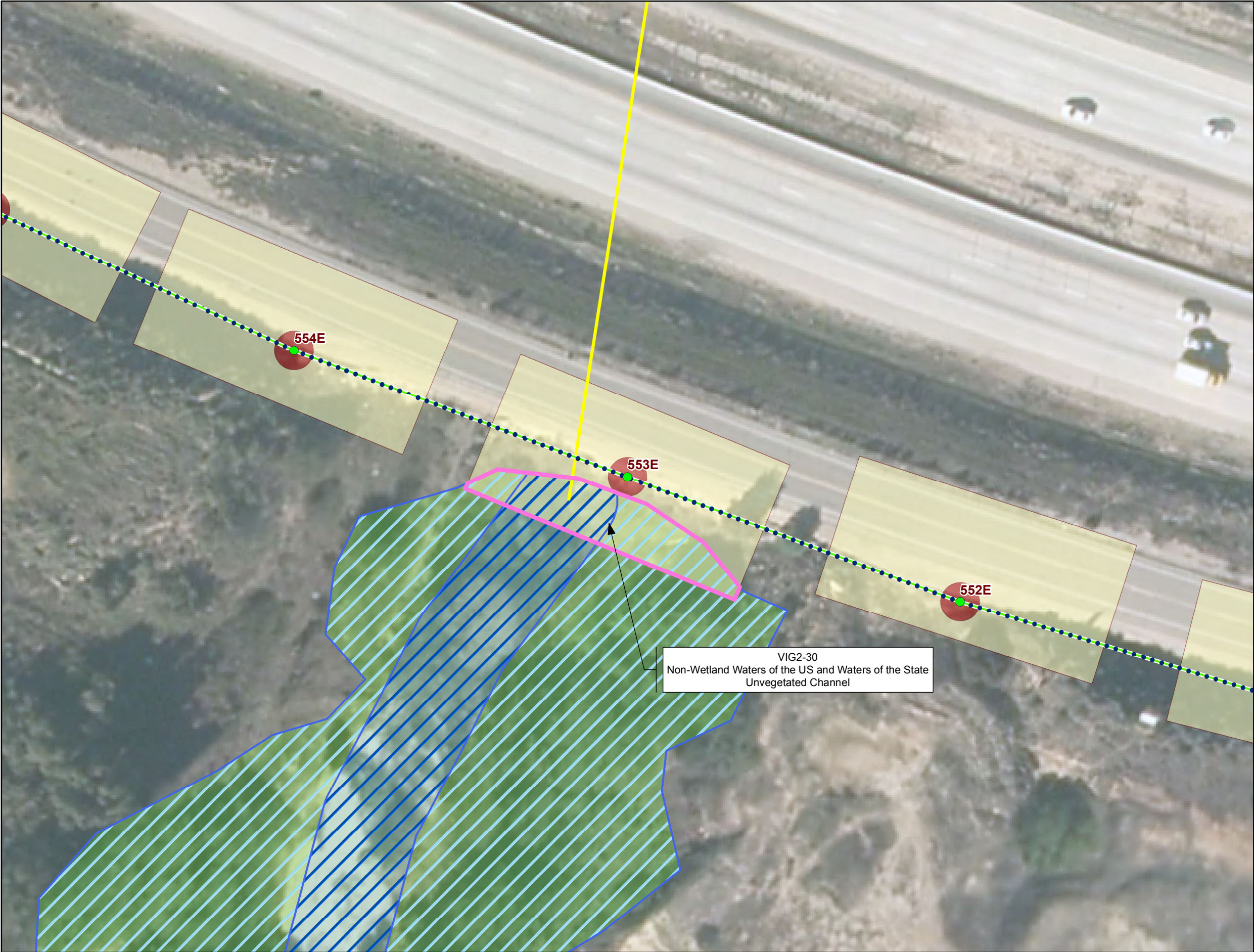
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 19**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

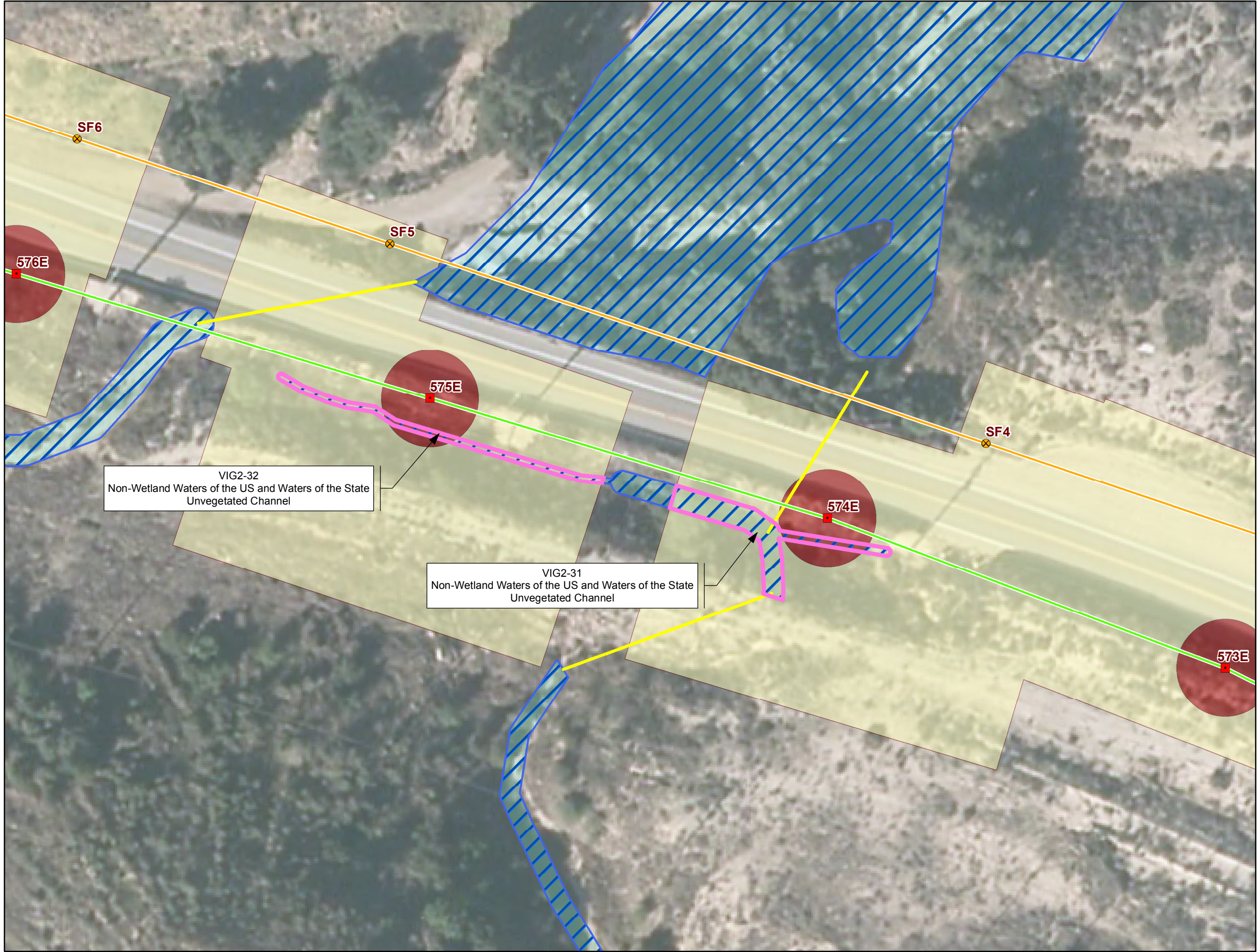
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 20**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 21**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

\* Map Notes:  
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- Map Current as of 11/18/2014

1 inch = 50 feet  
0 25 50 Feet

Appendix A2 - Proposed Impacts to Riverine/Riparian Areas

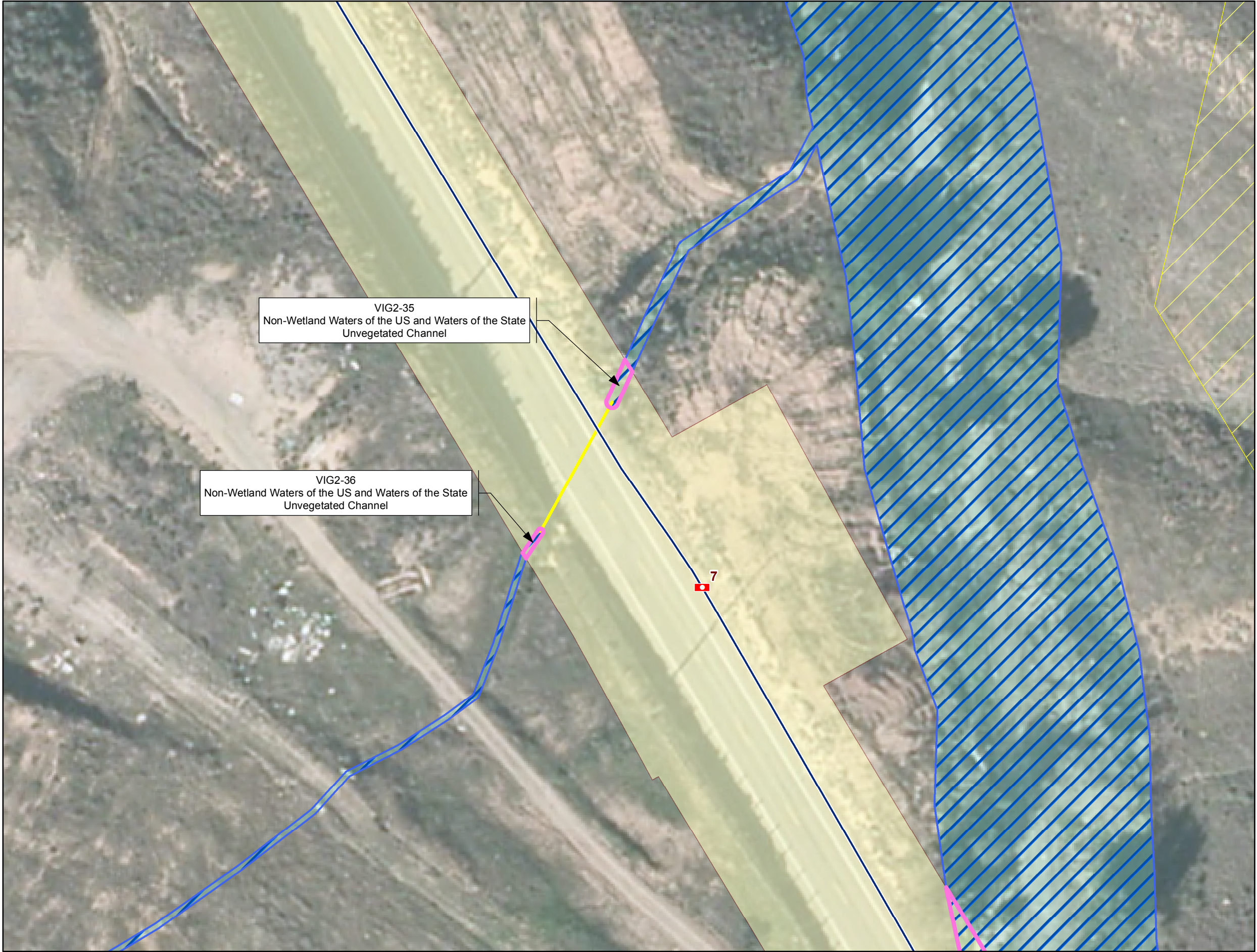
MSHCP Biological Resources Technical Report

for the Valley-Ivyglen Subtransmission Line Project

Phase 2

Riverside County, California

Map 22



VIG2-35  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

VIG2-36  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- Rip-Rap

**Impact Areas\***

- Permanent
- Temporary
- Tree Trimming Areas
- Impacted Jurisdictional Features

**MSHCP Riverine/Riparian Areas**

- Riparian
- Riverine
- Vernal Pool

**Potential Jurisdictional Waters (AMEC)**

- Waters of the State of California
- 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 assessments conducted prior to construction
- Map Current as of 11/18/2014

**amec**

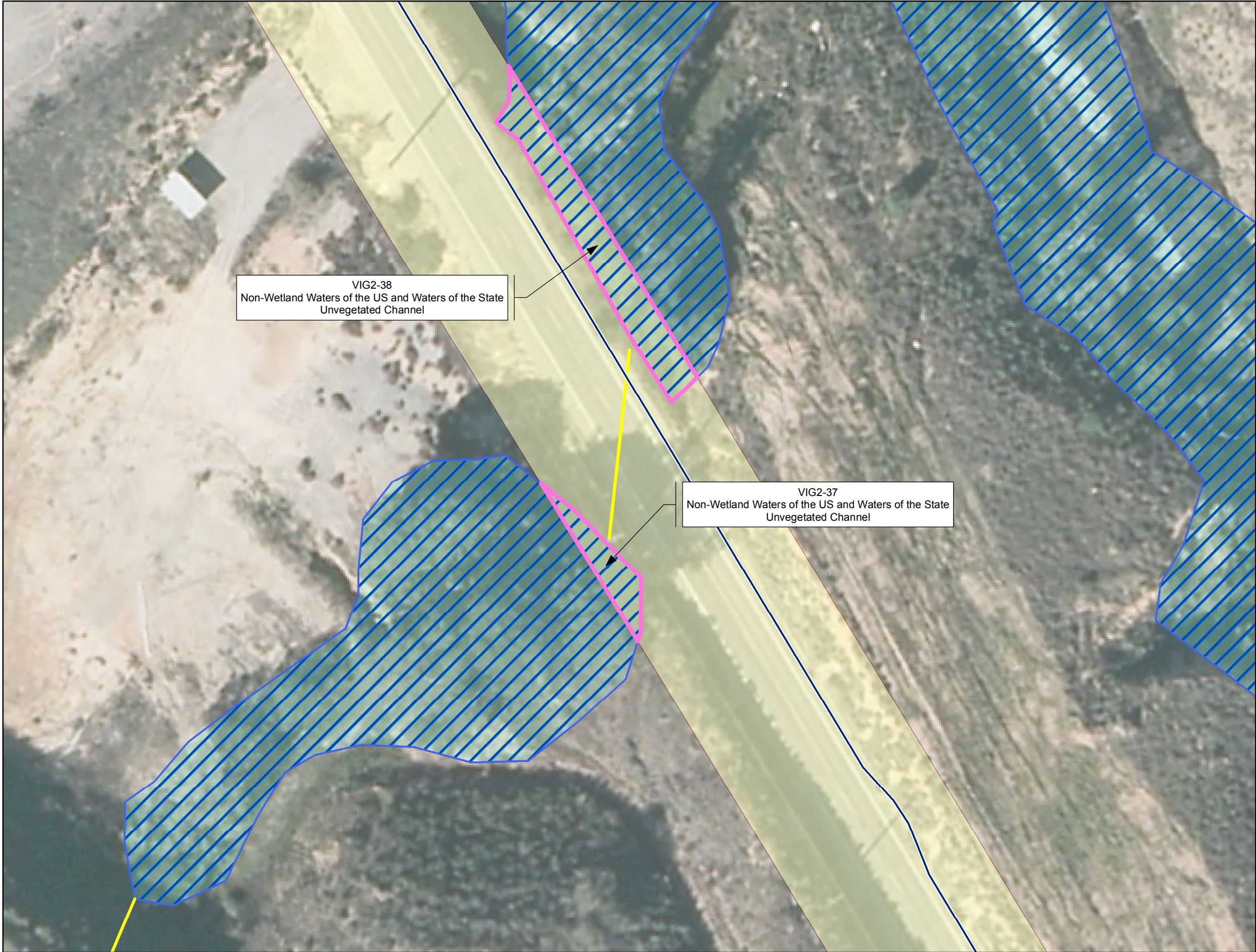
1 inch = 50 feet

0 25 50 Feet

N

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

**Map 23**



VIG2-38  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

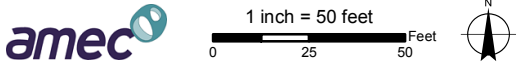
VIG2-37  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

Legend

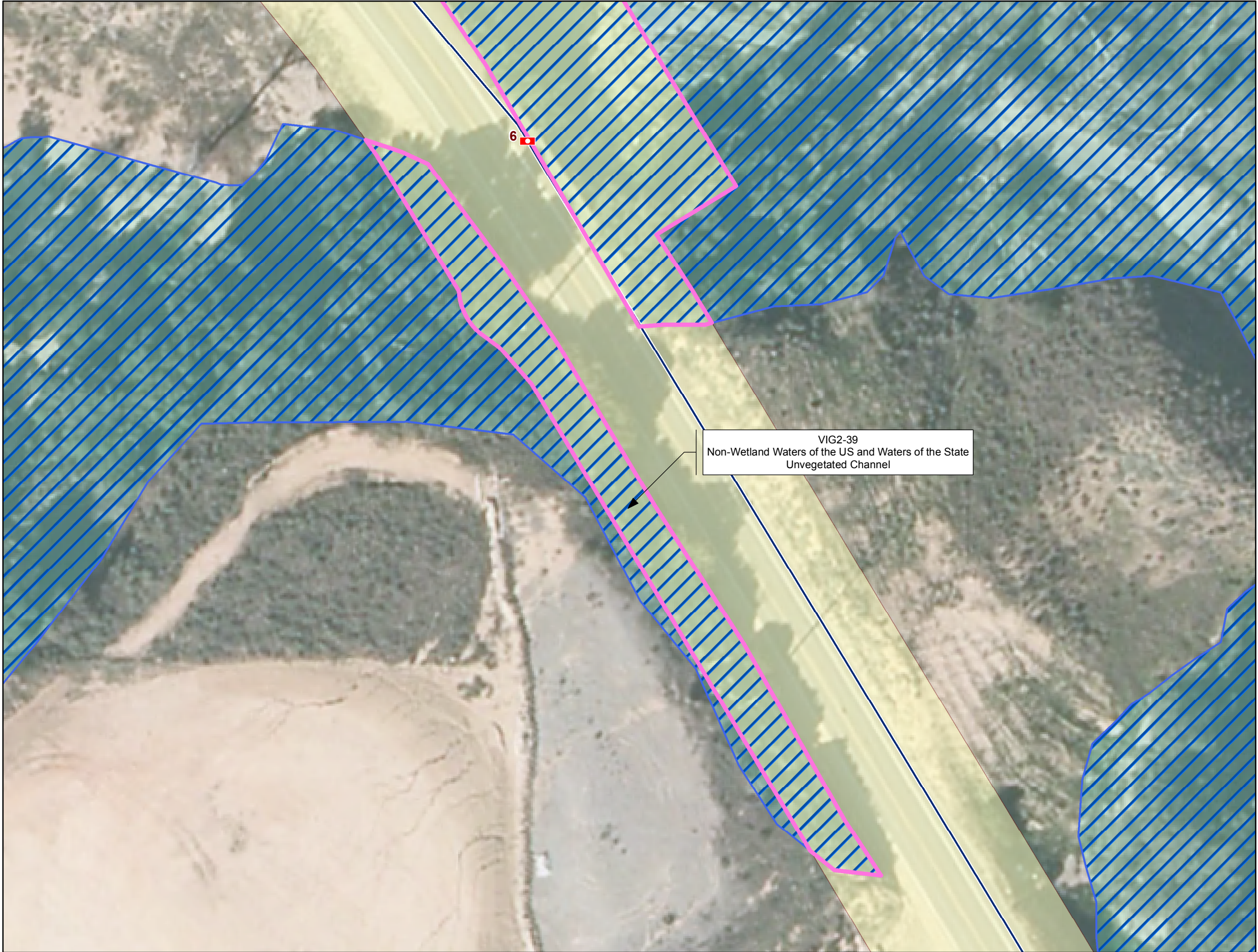
- Project Features\***
- Pole Type**
- Guy
  - LWSP (Guy Stub)
  - Hybrid
  - LWSP
  - Riser
  - Shoofly
  - TSP
  - Wood
  - Vault
  - Guard Structures
- Subtransmission Route**
- Segment 4
  - Segment 5
  - Segment 6
  - Segment 7
  - Segment 8
  - Shoofly
  - Access Roads
  - Material Yards
  - Conserved Lands (MSHCP)
- Fiber Optic Line**
- Overhead Fiber Optic Cable
  - Underground Fiber Optic in Existing Conduit
  - Underground Fiber Optic in New Conduit
- Drainage Control Features (90%)**
- New Culvert
  - Gabion
  - 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 State of California
  - 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 assessments conducted prior to construction  
- Map Current as of 11/18/2014



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



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- Rip-Rap

**Impact Areas\***

- Permanent
- Temporary
- Tree Trimming Areas
- Impacted Jurisdictional Features

**MSHCP Riverine/Riparian Areas**

- Riparian
- Riverine
- Vernal Pool

**Potential Jurisdictional Waters (AMEC)**

- Waters of the State of California
- 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 assessments conducted prior to construction
- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

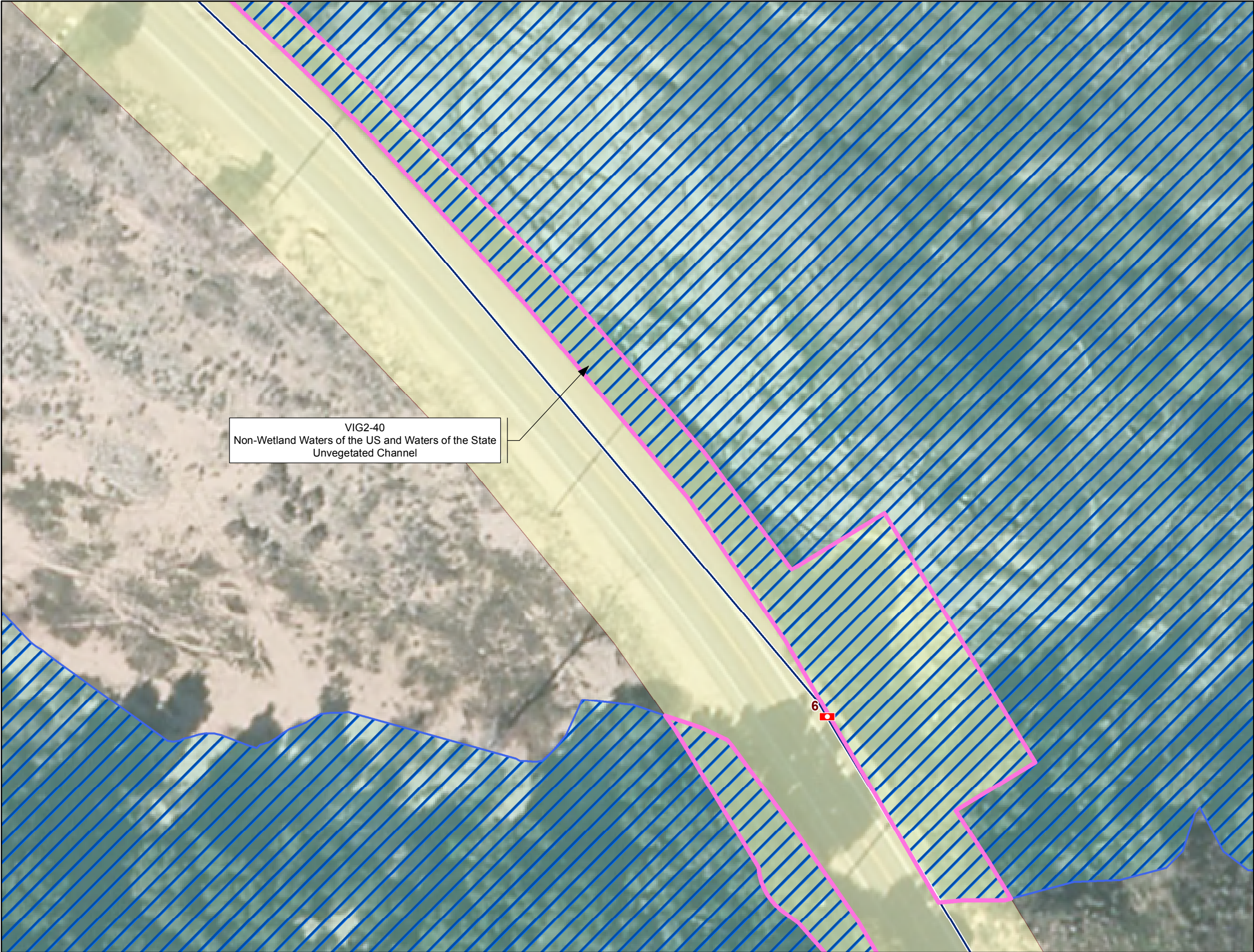
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 25**



VIG2-40  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 26**



VIG2-40  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

Legend

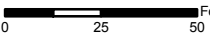
- Project Features\***
- Pole Type**
- Guy
  - LWSP (Guy Stub)
  - Hybrid
  - LWSP
  - Riser
  - Shoofly
  - TSP
  - Wood
  - Vault
  - Guard Structures
- Subtransmission Route**
- Segment 4
  - Segment 5
  - Segment 6
  - Segment 7
  - Segment 8
  - Shoofly
  - Access Roads
  - Material Yards
  - Conserved Lands (MSHCP)
- Fiber Optic Line**
- Overhead Fiber Optic Cable
  - Underground Fiber Optic in Existing Conduit
  - Underground Fiber Optic in New Conduit
- Drainage Control Features (90%)**
- New Culvert
  - Gabion
  - 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 State of California
  - Waters of the U.S. and Waters of the State of California
  - Wetland
  - Existing Culvert



\* Map Notes:  
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- Map Current as of 11/18/2014



1 inch = 50 feet



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



VIG2-41  
Non-Wetland Waters of the US and Waters of the State  
Unvegetated Channel

### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

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- Map Current as of 11/18/2014

amec

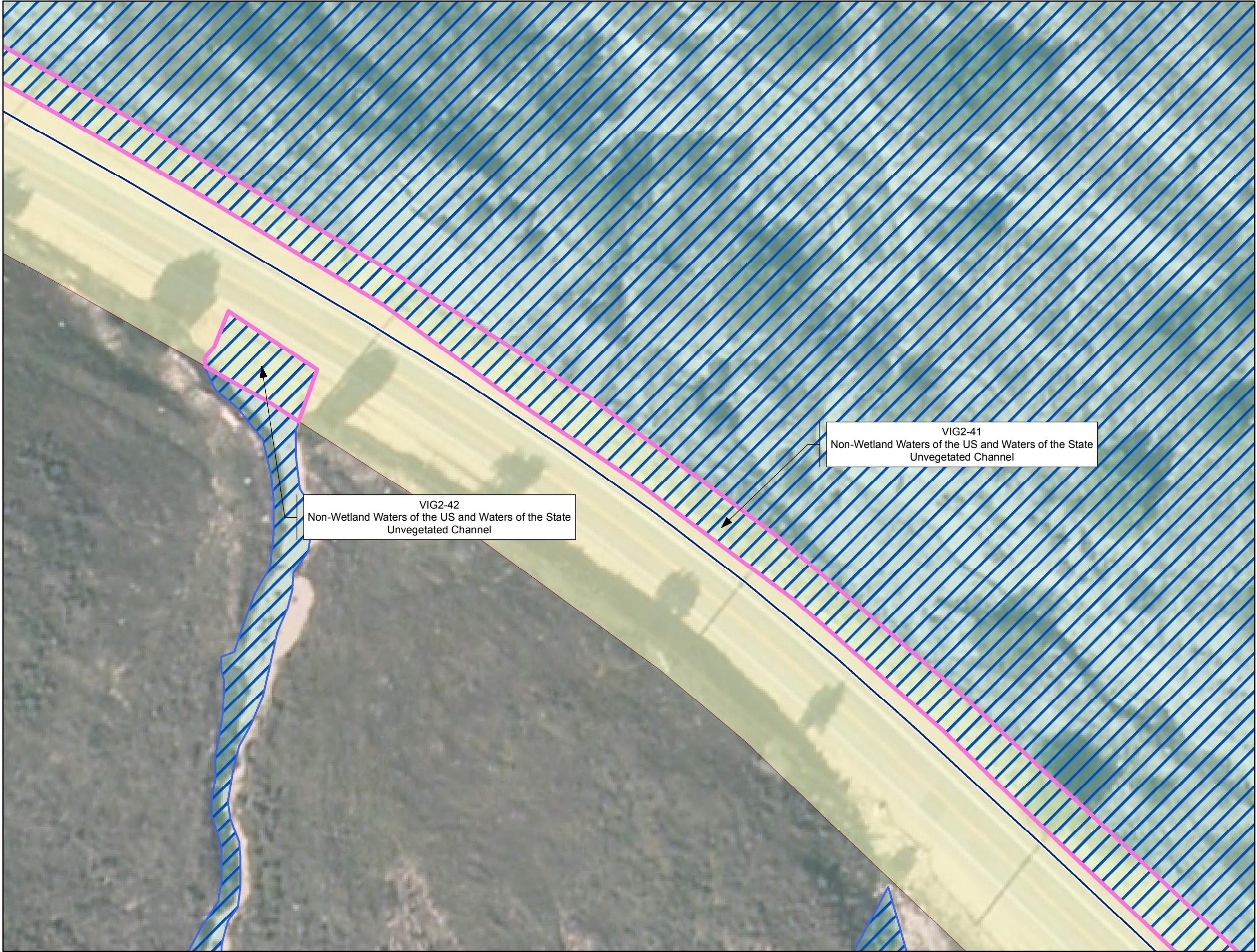
1 inch = 50 feet

0 25 50 Feet

N

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

**Map 28**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

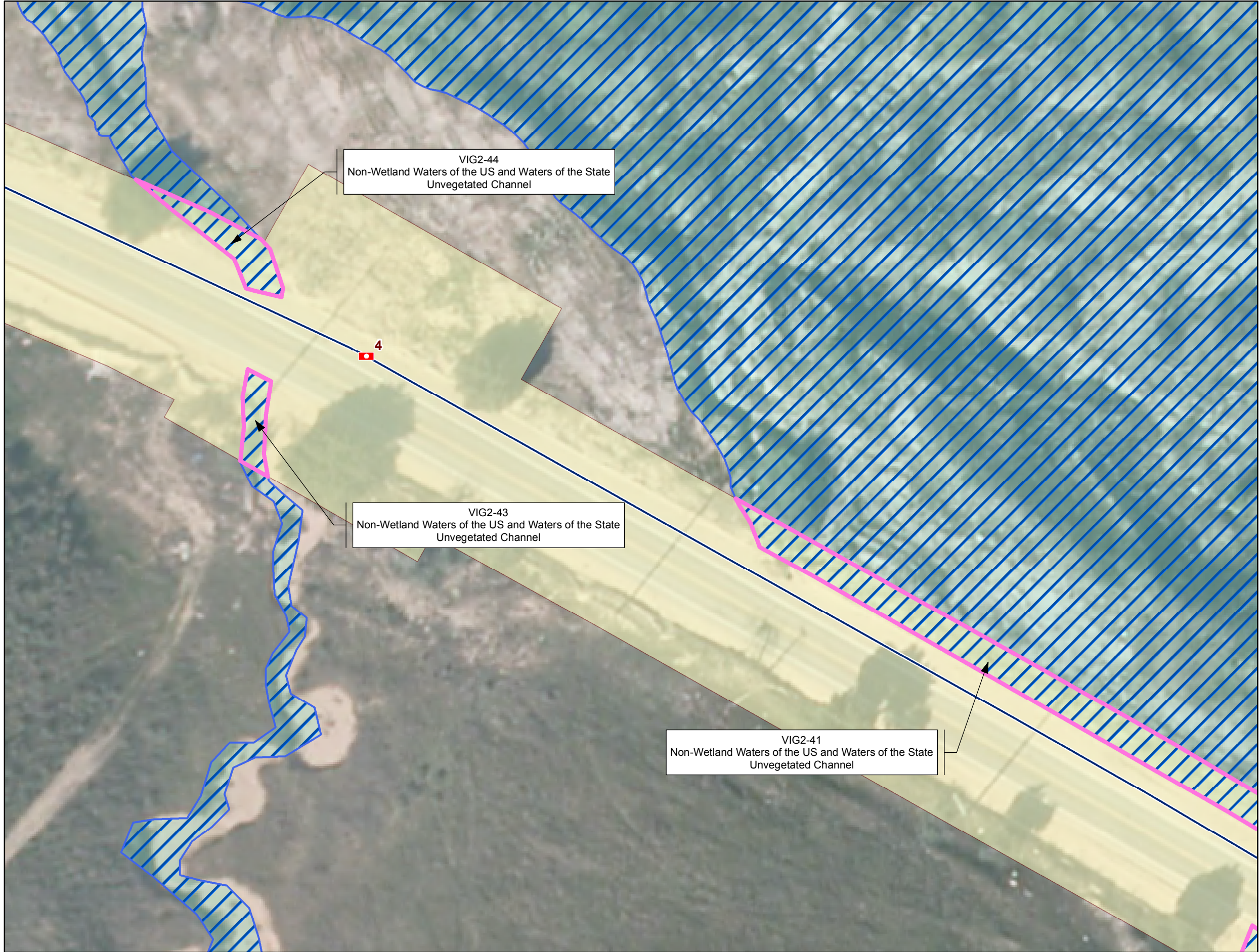
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 29**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Existing Culvert

**\* Map Notes:**

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- Map Current as of 11/18/2014

**amec**

1 inch = 50 feet

0 25 50 Feet

N

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

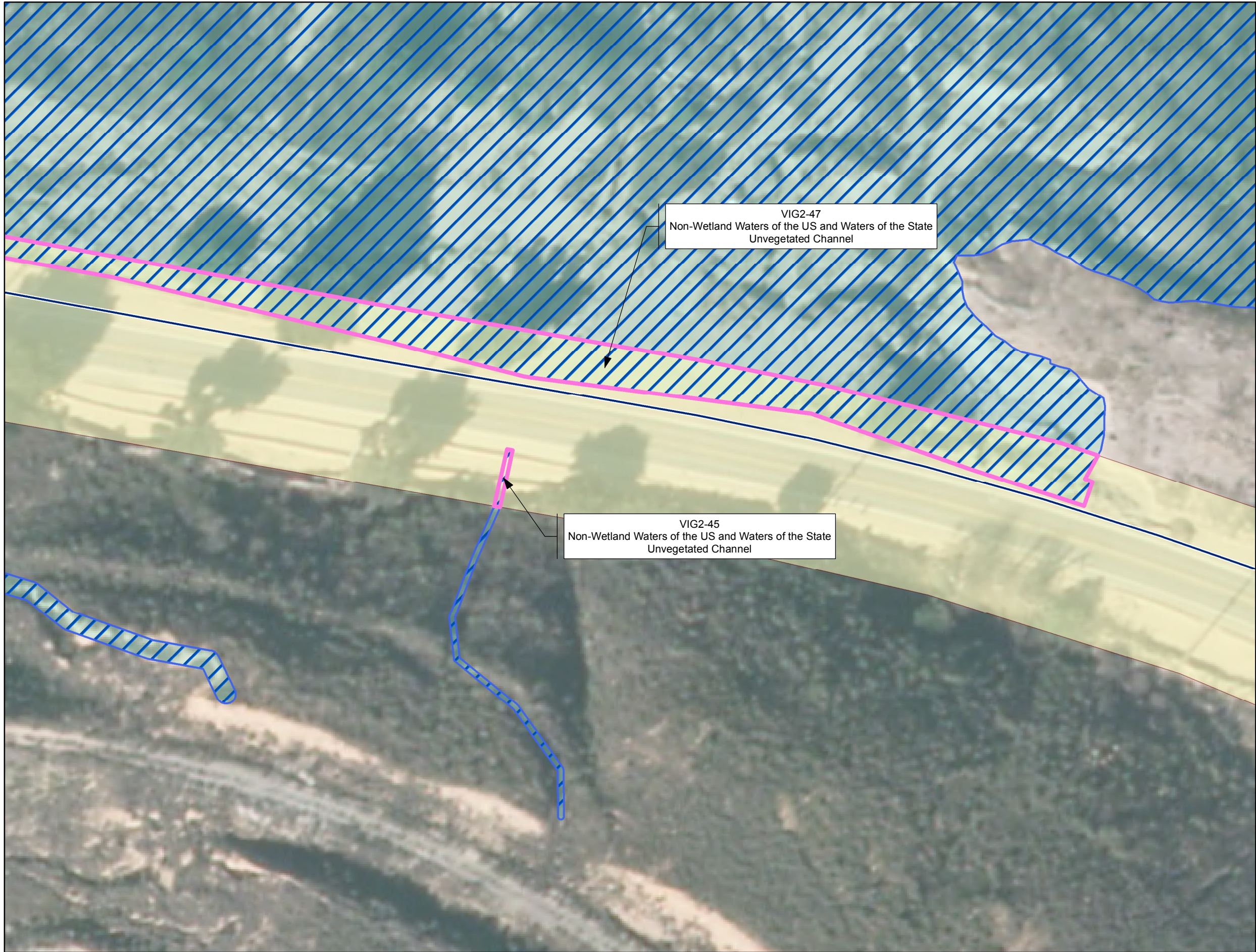
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 30**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- 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 State of California
- 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 assessments conducted prior to construction  
- Map Current as of 11/18/2014

amec

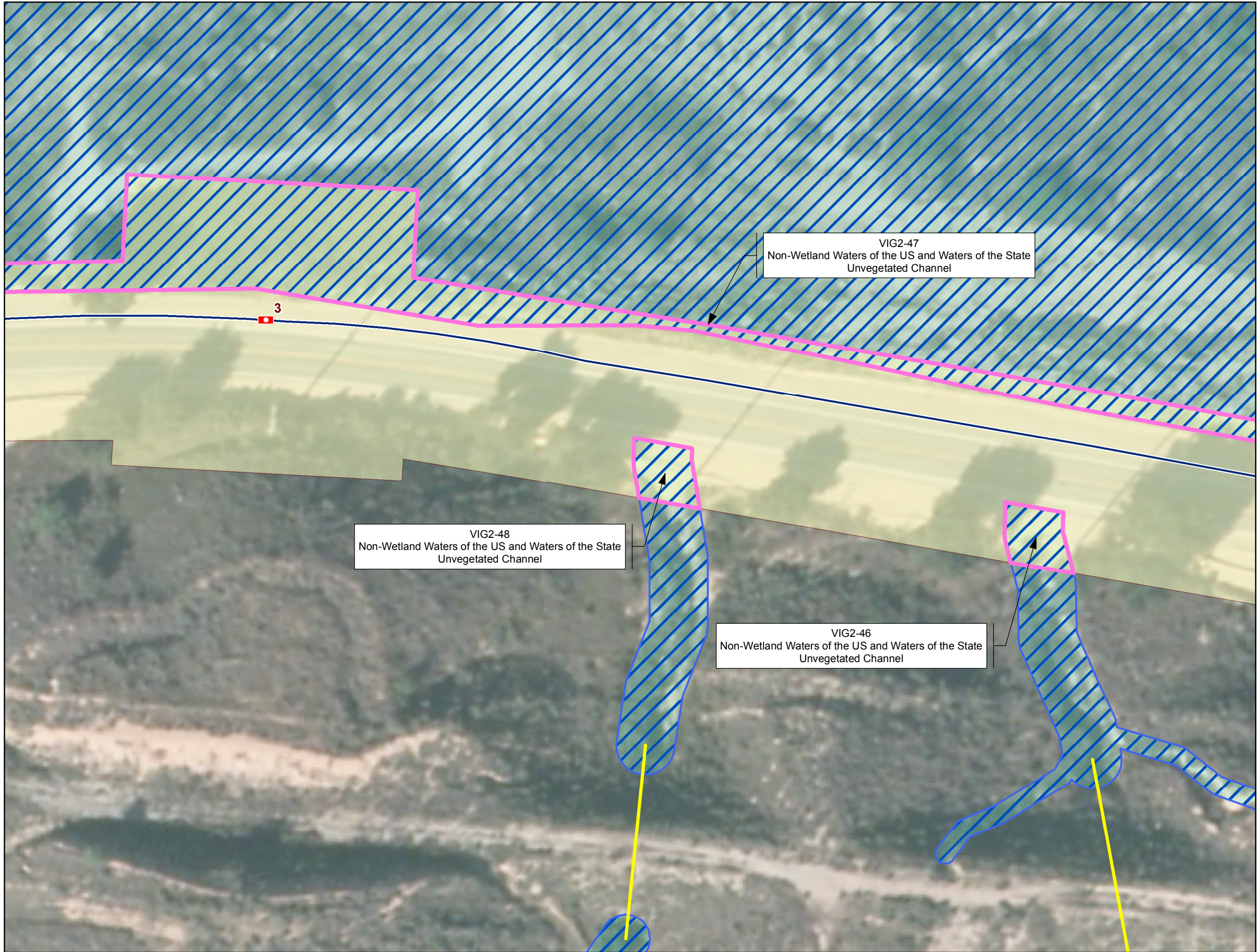
1 inch = 50 feet

0 25 50 Feet

N

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

**Map 31**



### Legend

**Project Features\***

**Pole Type**

- Guy
- LWSP (Guy Stub)
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Vault
- Guard Structures

**Subtransmission Route**

- Segment 4
- Segment 5
- Segment 6
- Segment 7
- Segment 8
- Shoofly
- Access Roads
- Material Yards
- Conserved Lands (MSHCP)

**Fiber Optic Line**

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

**Drainage Control Features (90%)**

- New Culvert
- Gabion
- Rip-Rap

**Impact Areas\***

- Permanent
- Temporary
- Tree Trimming Areas
- Impacted Jurisdictional Features

**MSCHP Riverine/Riparian Areas**

- Riparian
- Riverine
- Vernal Pool

**Potential Jurisdictional Waters (AMEC)**

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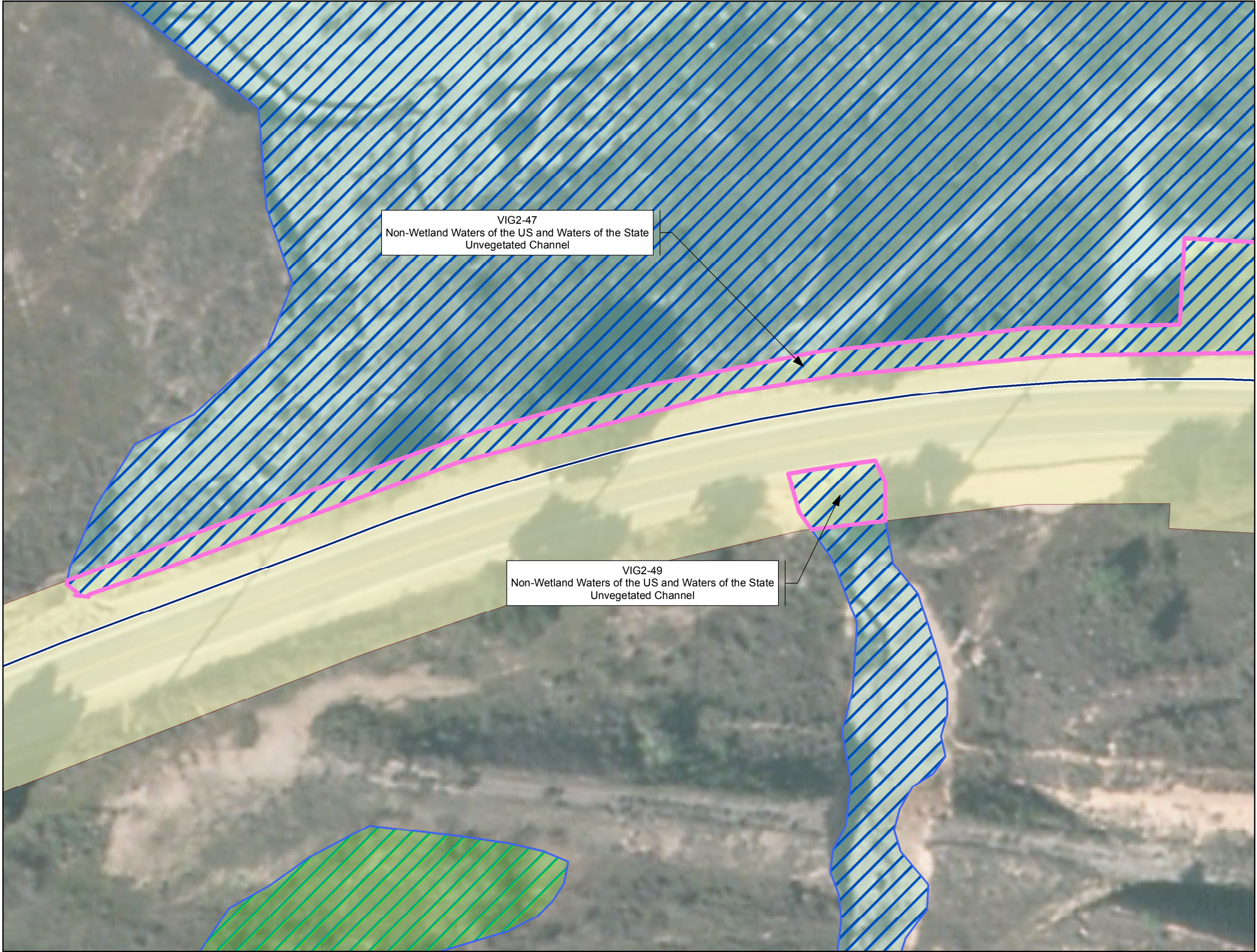
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 32**



### Legend

**Project Features\***

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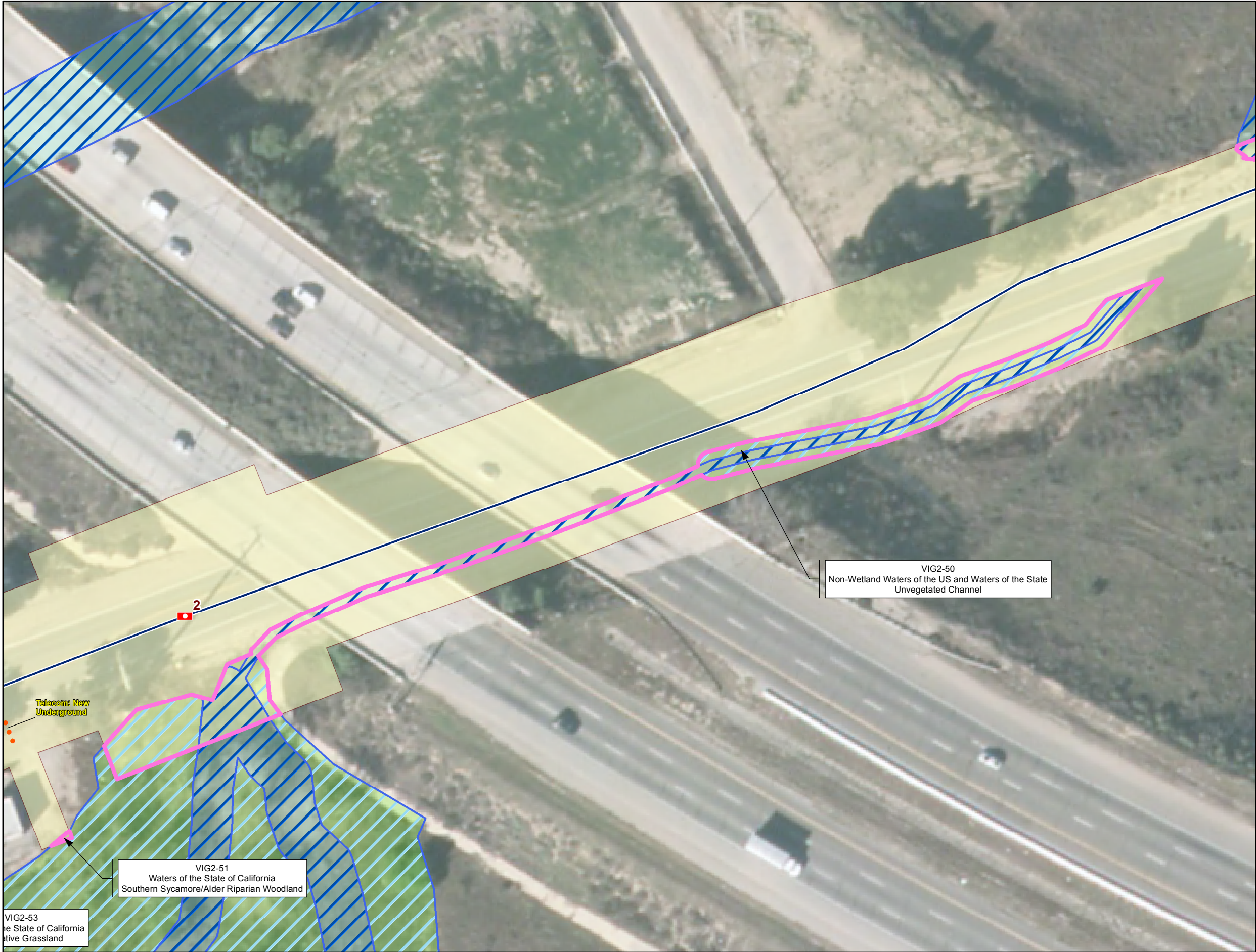
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 33**



### Legend

**Project Features\***

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0 30 60 Feet

N

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

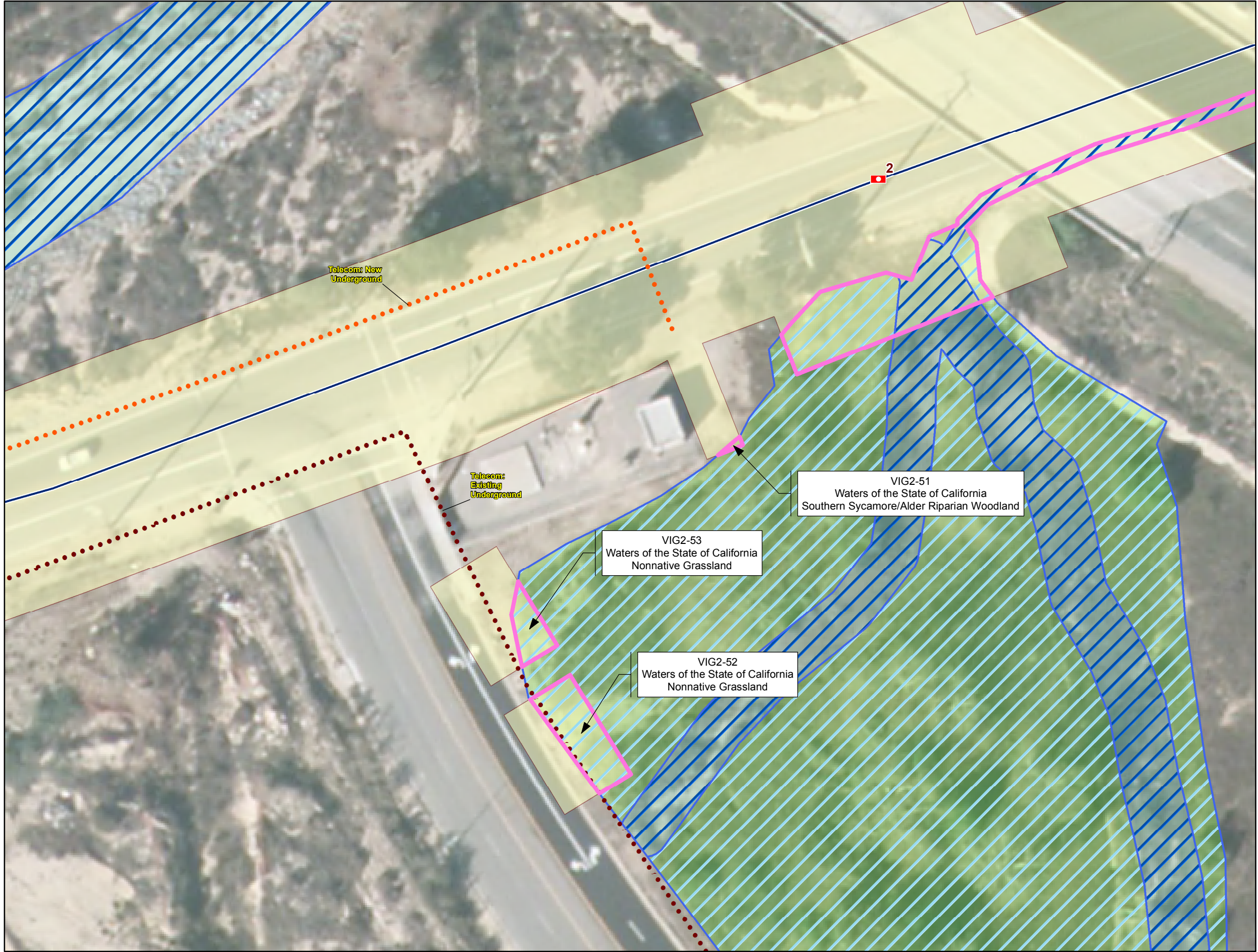
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 34**



### Legend

**Project Features\***

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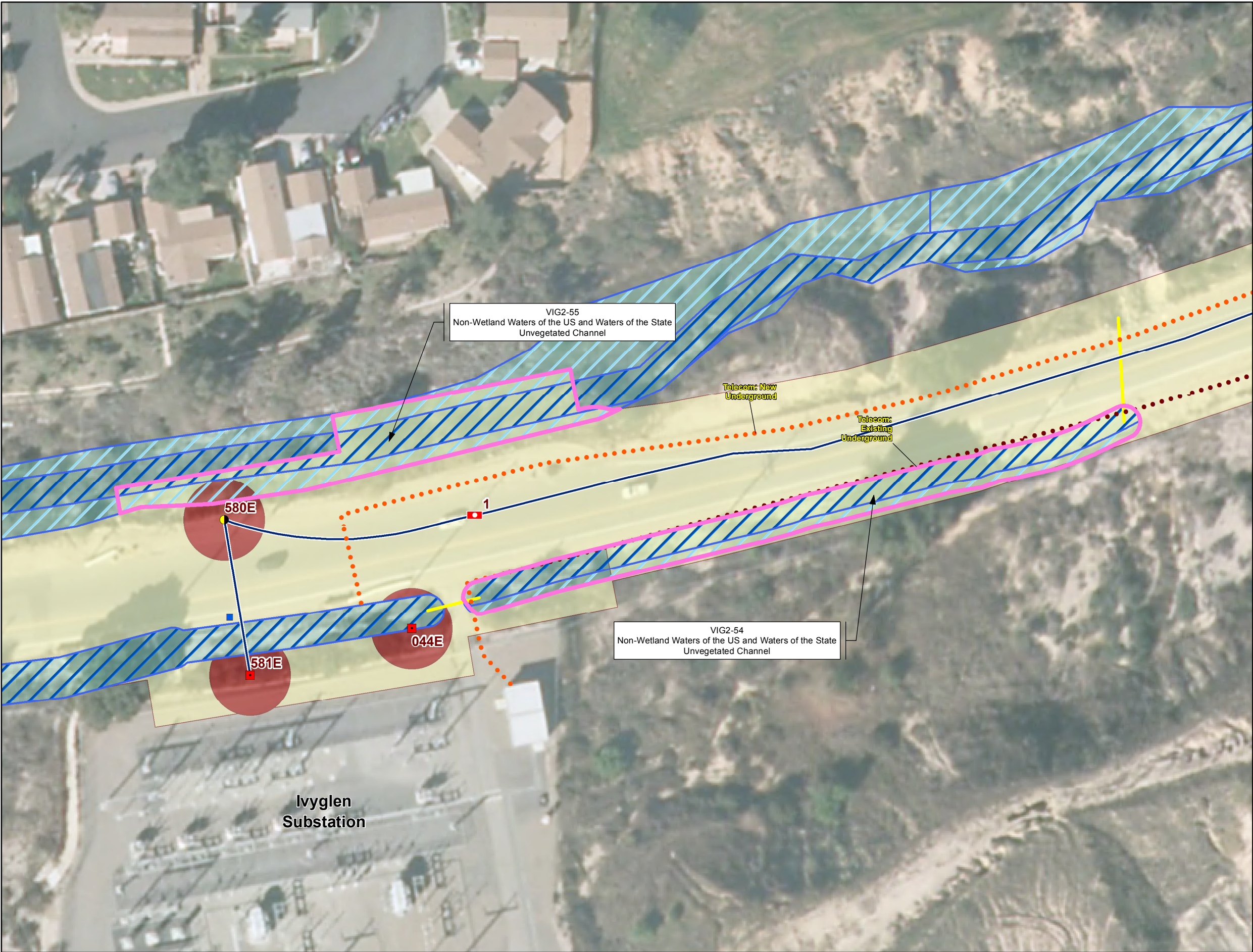
**MSHCP Biological Resources Technical Report**

**for the Valley-Ivyglen Subtransmission Line Project**

**Phase 2**

**Riverside County, California**

**Map 35**



### Legend

**Project Features\***

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**Phase 2**  
**Riverside County, California**

**Map 36**