Appendix A
Route Mapbook

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Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-1
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-2
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

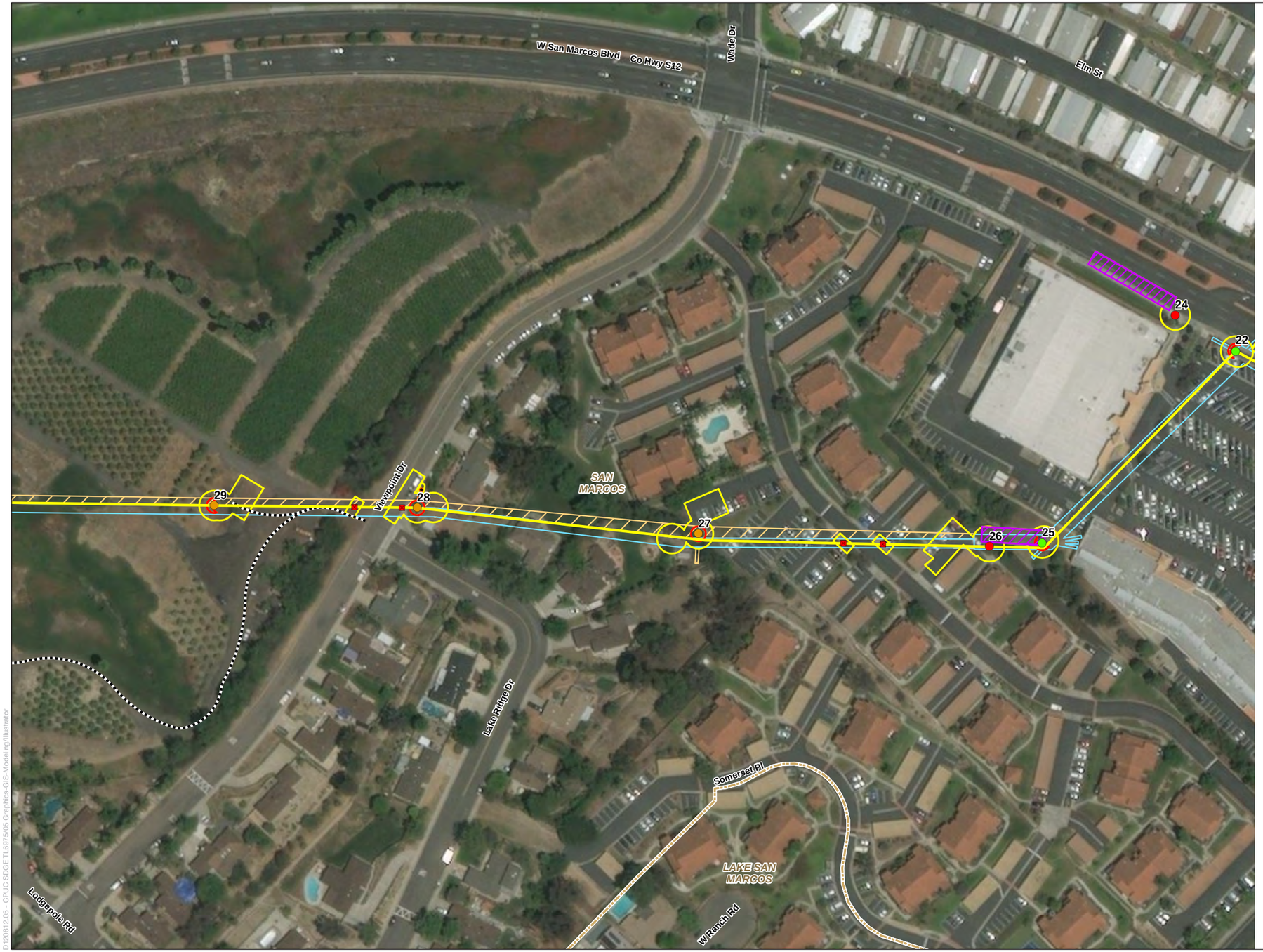
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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-3
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-4
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-5
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-6
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

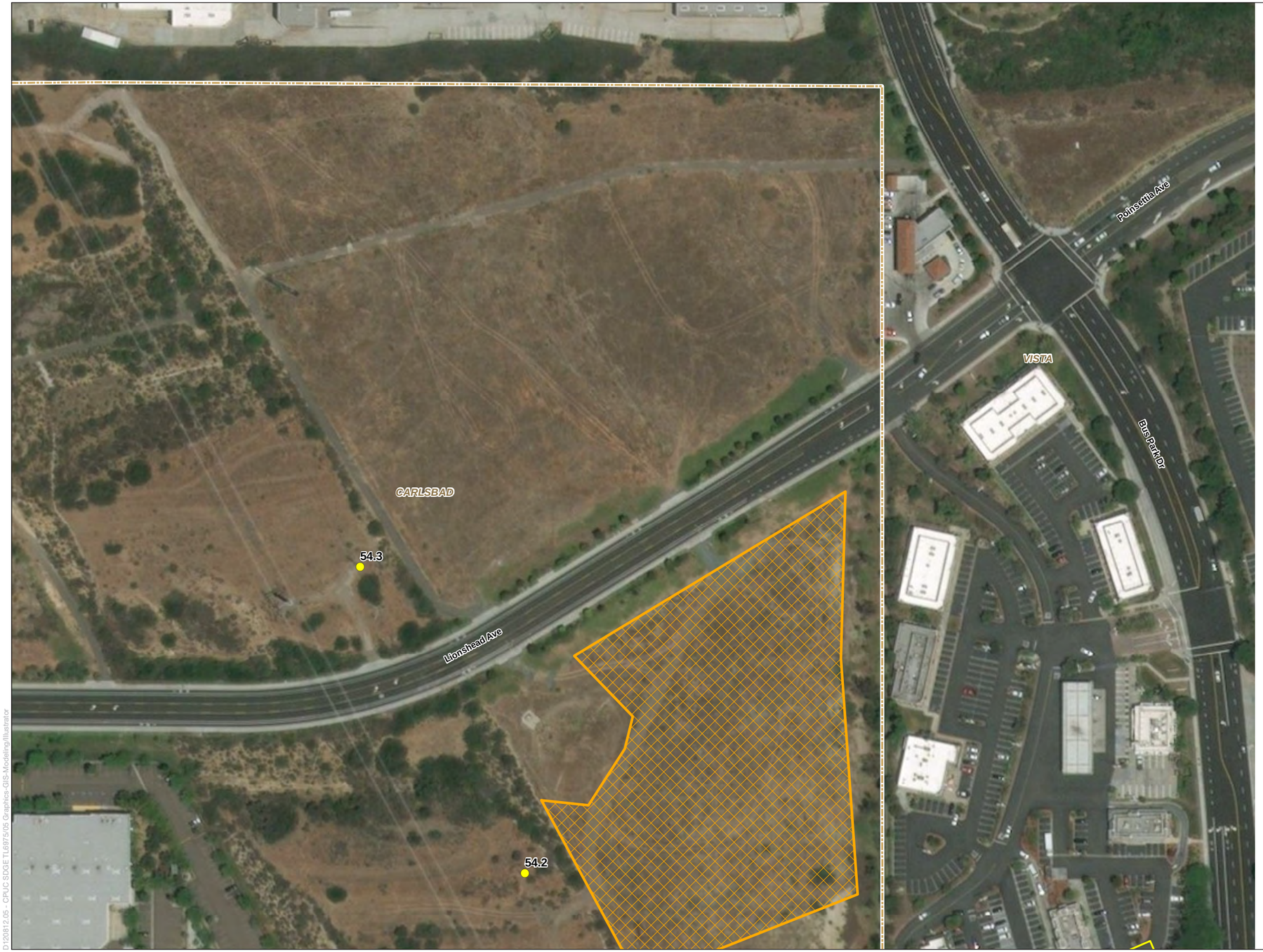
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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-7
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-8
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-9
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-10
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

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TL 6975 San Marcos to Escondido Project

Figure A-11
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-12
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-13
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-14
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-15
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-16
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-17
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-18
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-19
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-20
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-21
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-22
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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TL 6975 San Marcos to Escondido Project

Figure A-23
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

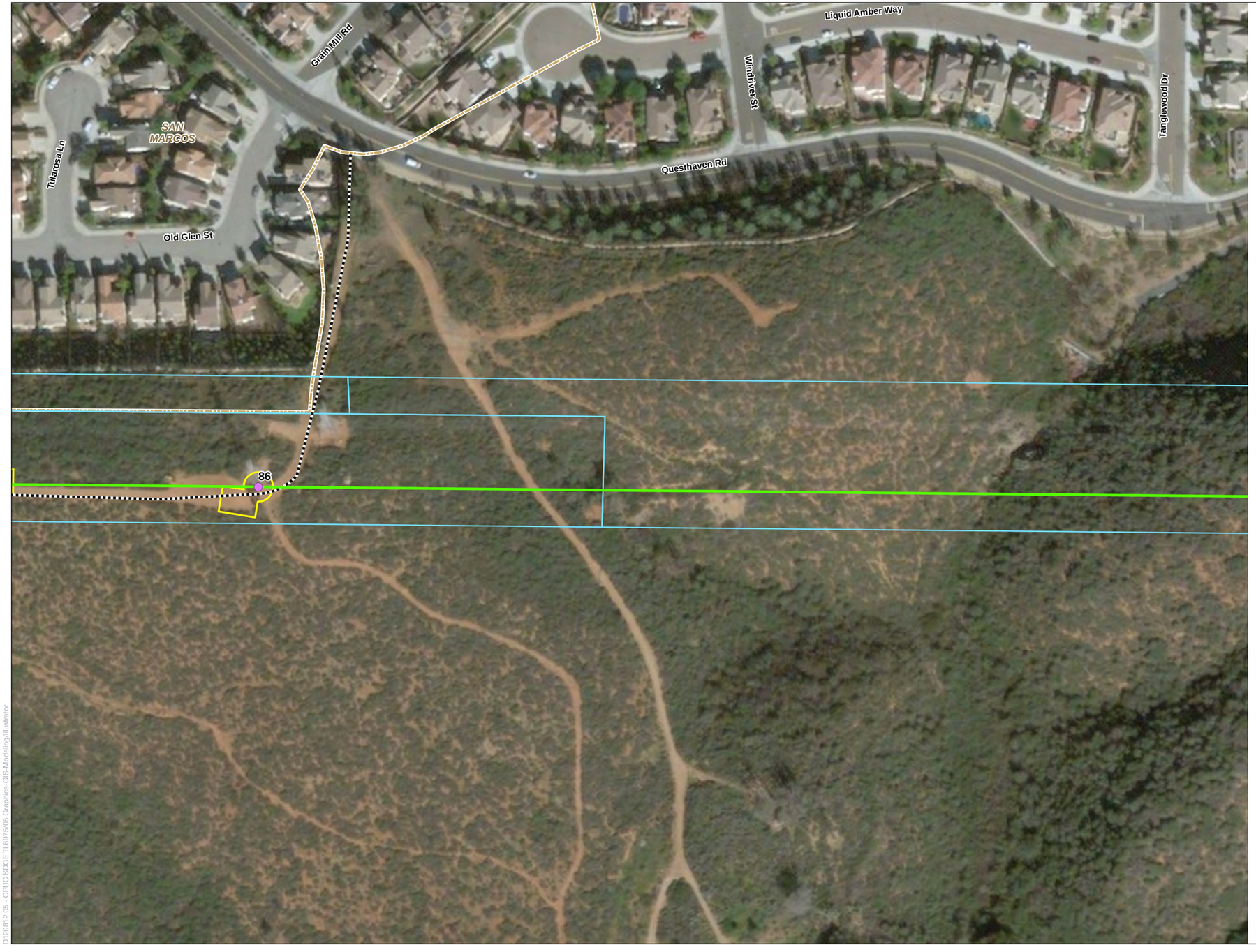
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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-24
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-25
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-26
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-27
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

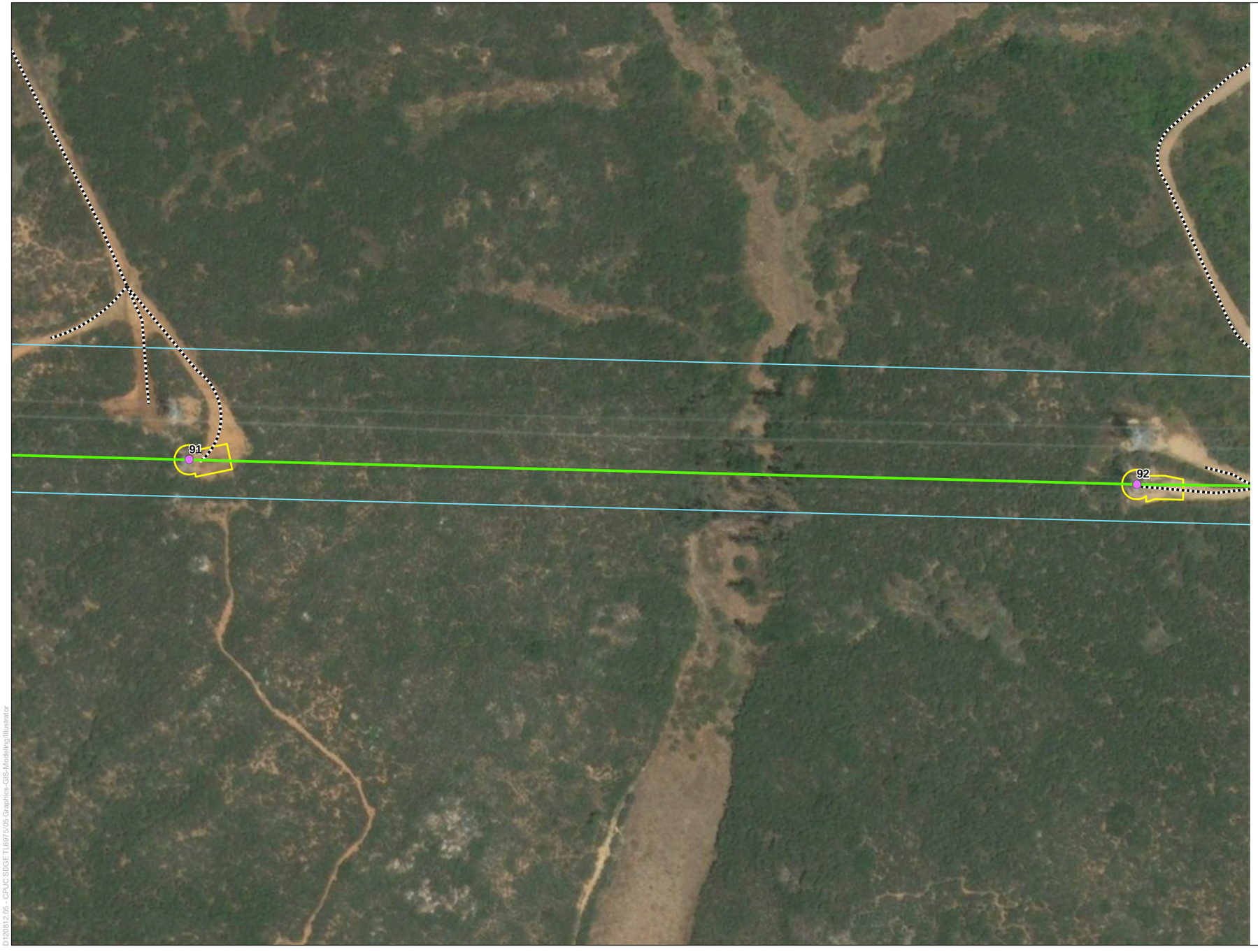
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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-28
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

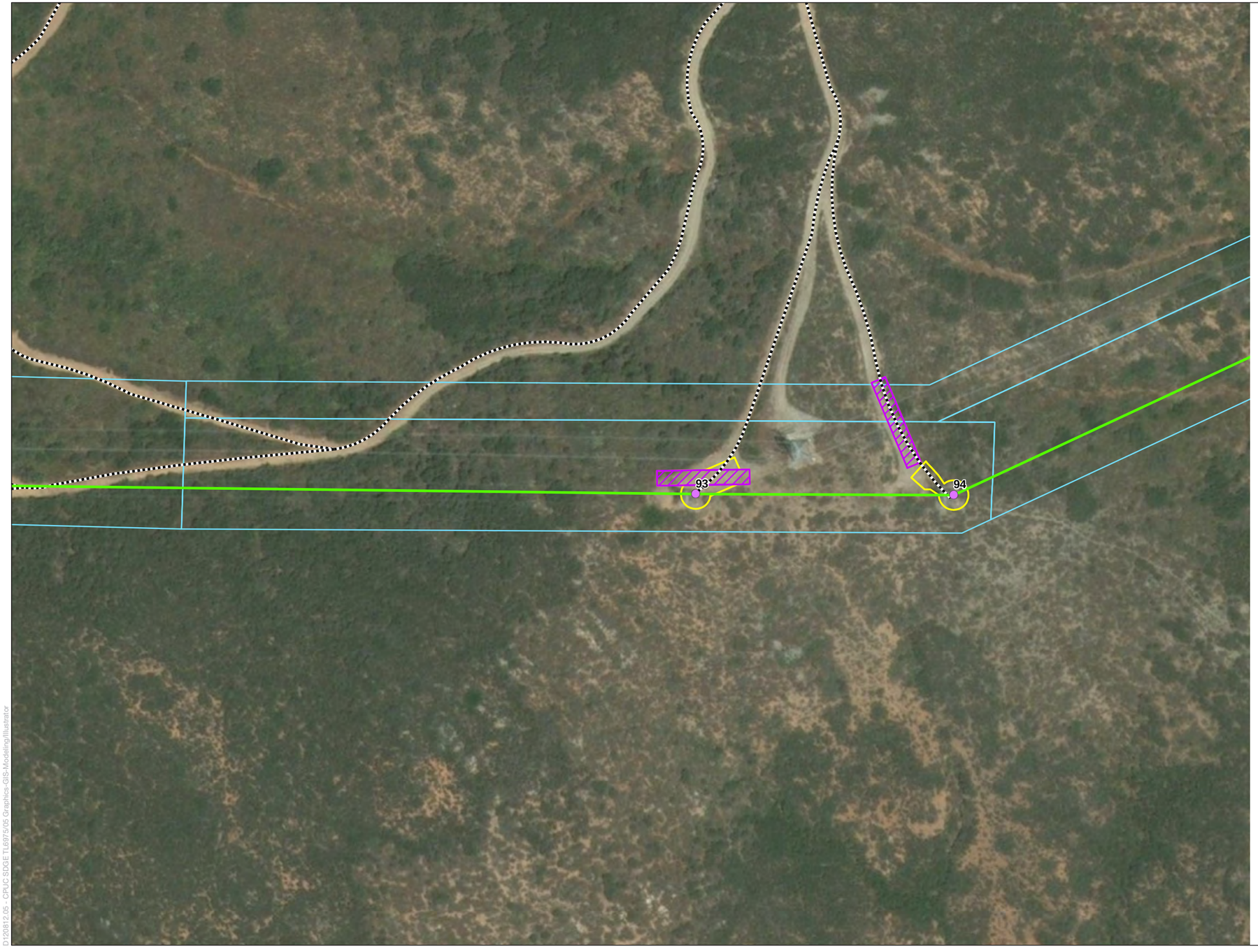
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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-29
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

D:\120812.05 - CPUC SDGE TL6975\05 Graphics-GIS-Modeling\Illustrator

SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-30
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

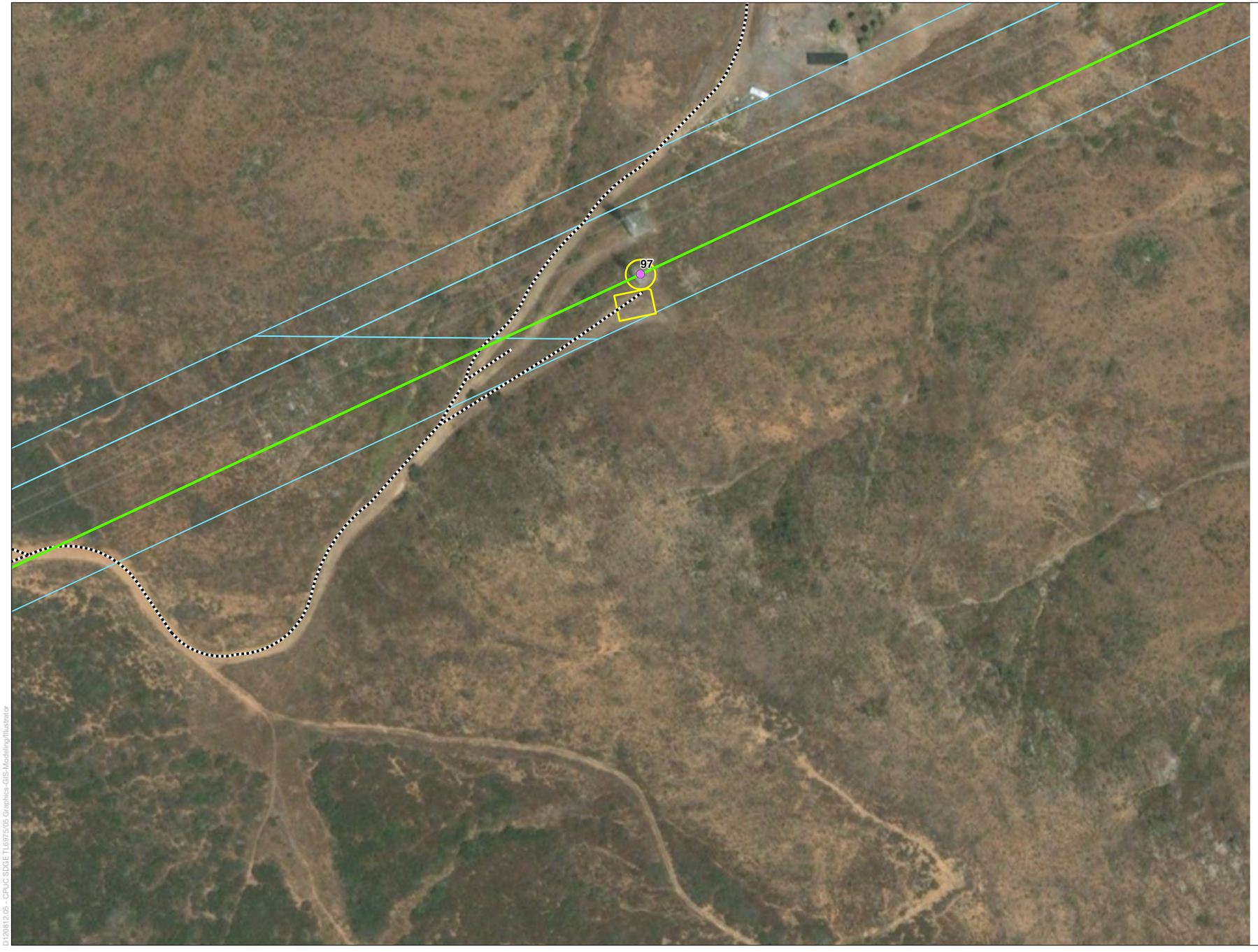
D:\120812.05 - CPUC SDGE TL6975\05 Graphics-GIS-Modeling\Illustrator

SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-31
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

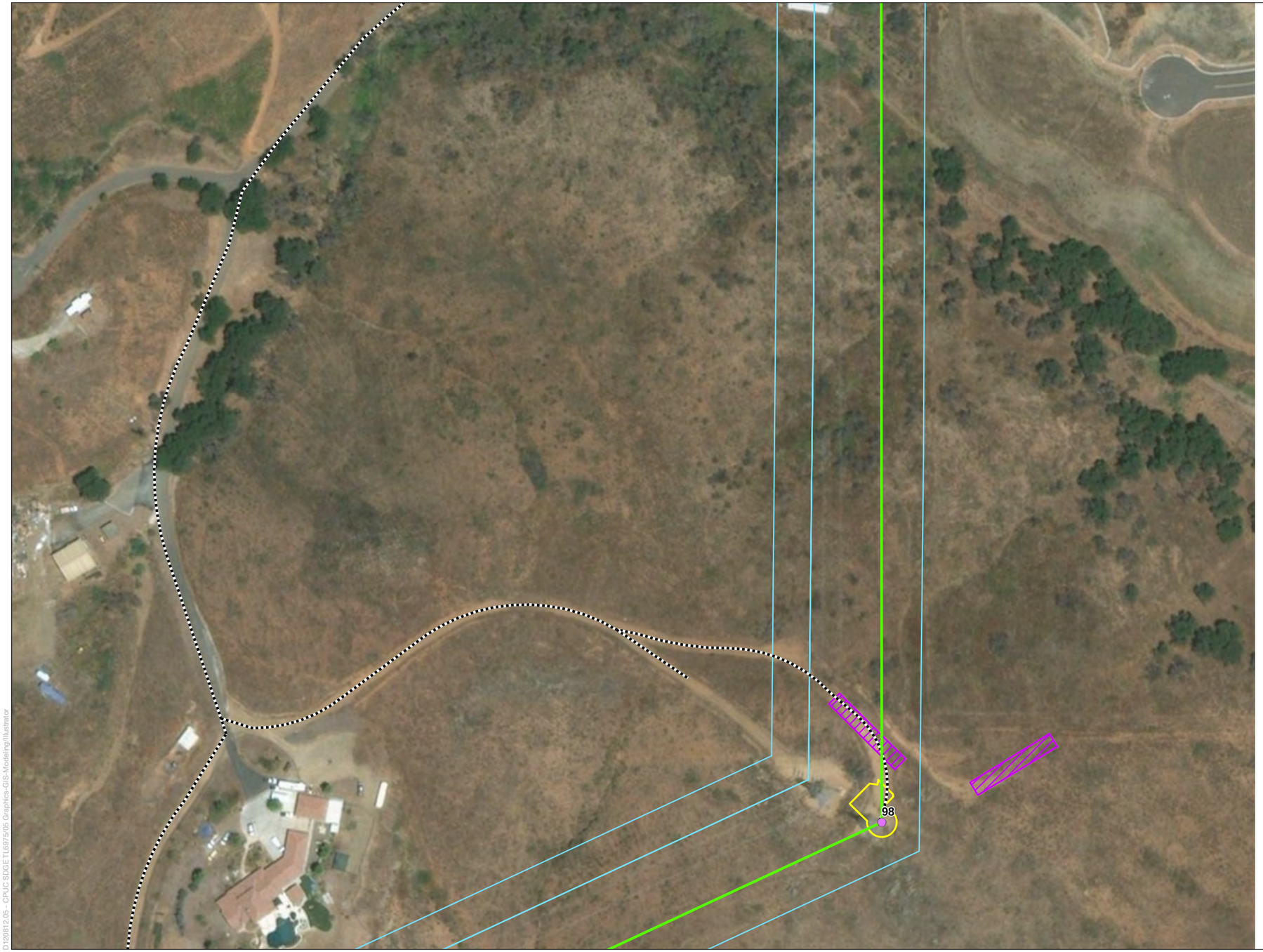
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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-32
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-33
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-34
Project Route Map

ESA



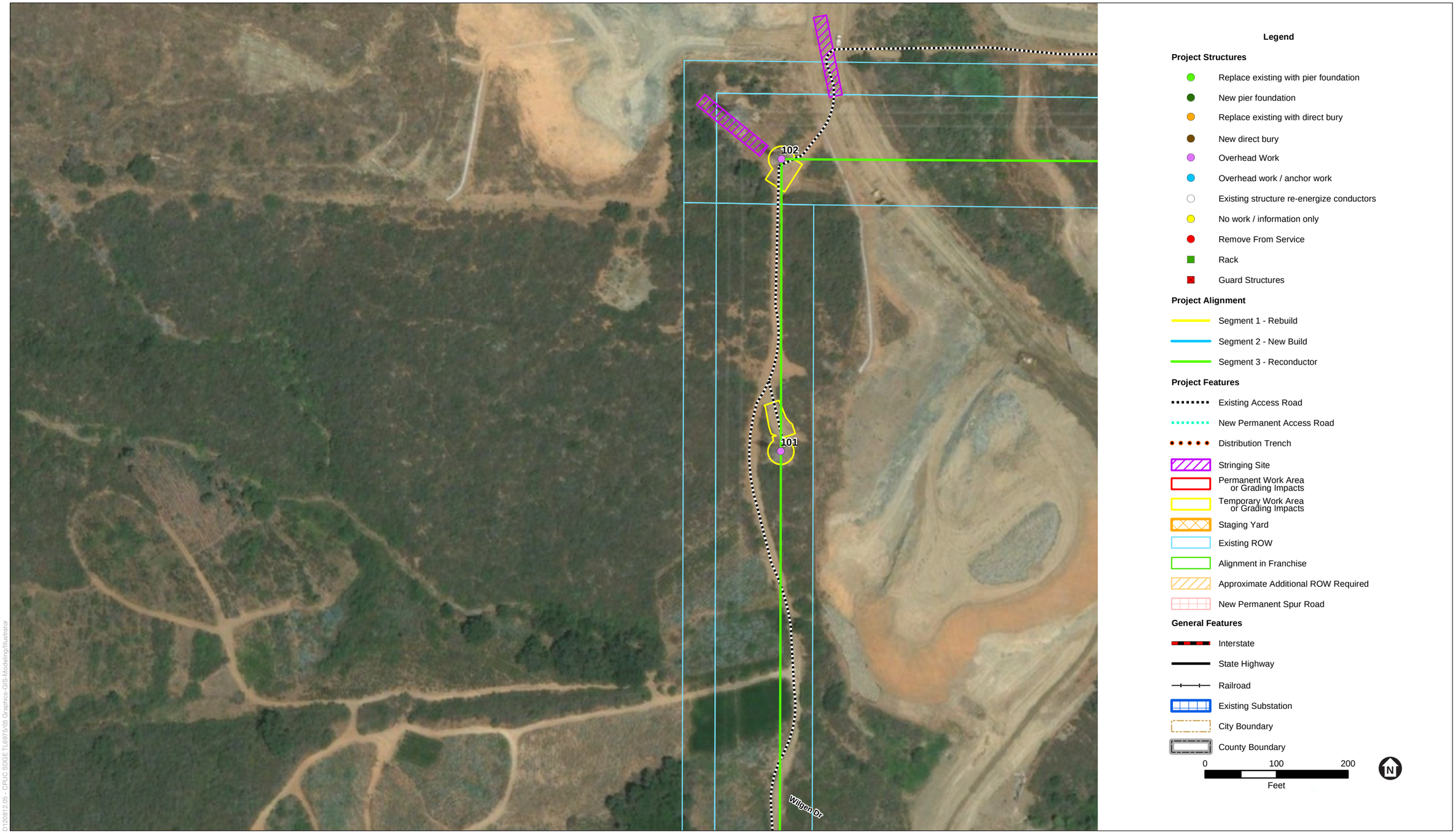
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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-35
Project Route Map

ESA



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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-36
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

D:\120812.05 - CPUC SDGE TL6975\05 Graphics-GIS-Modeling\Illustrator

SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-37
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

D:\120812.05 - CPUC SDGE TL6975\05 Graphics-GIS-Modeling\Illustrator

SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-38
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-39
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-40
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-41
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200

Feet

N

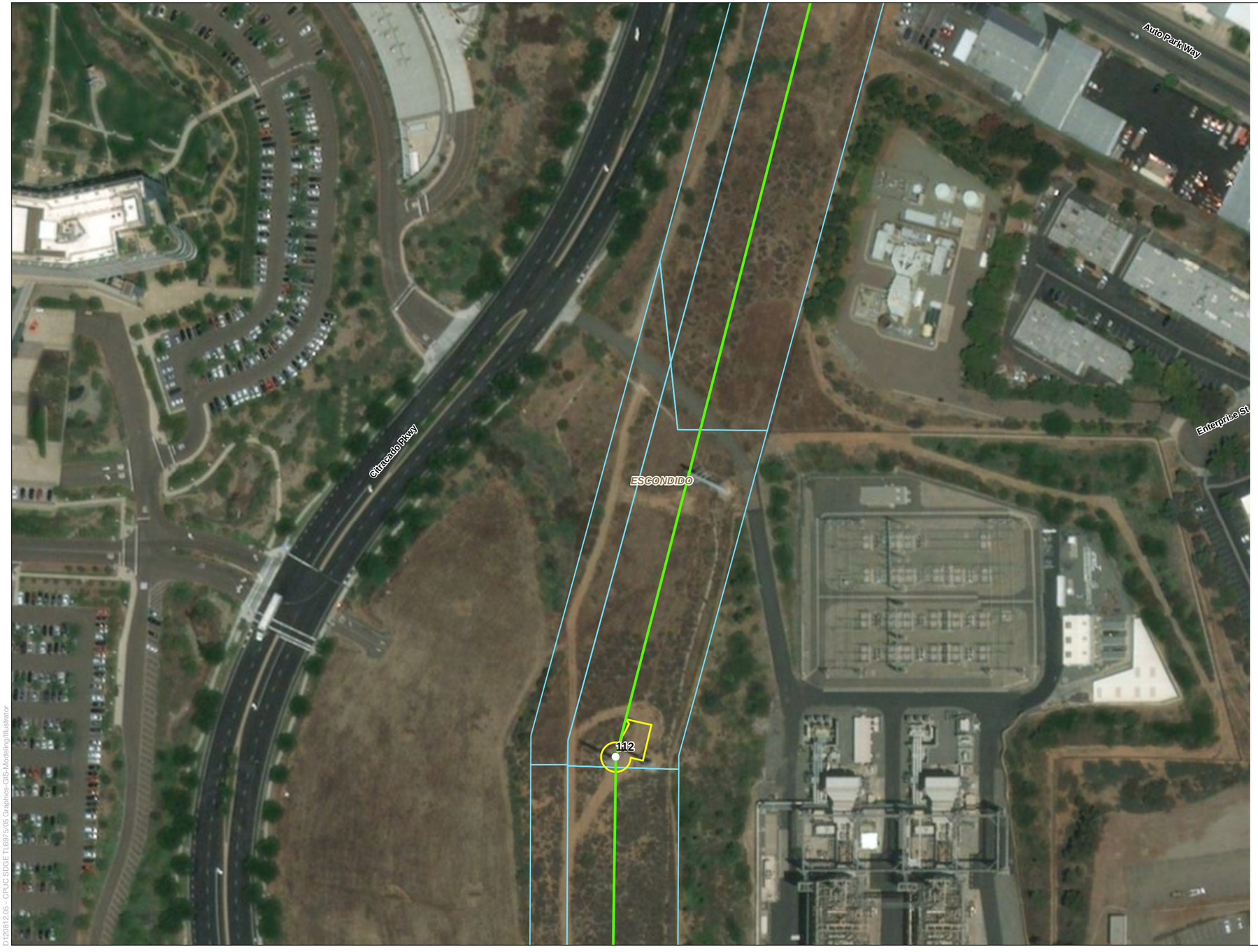
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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-42
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

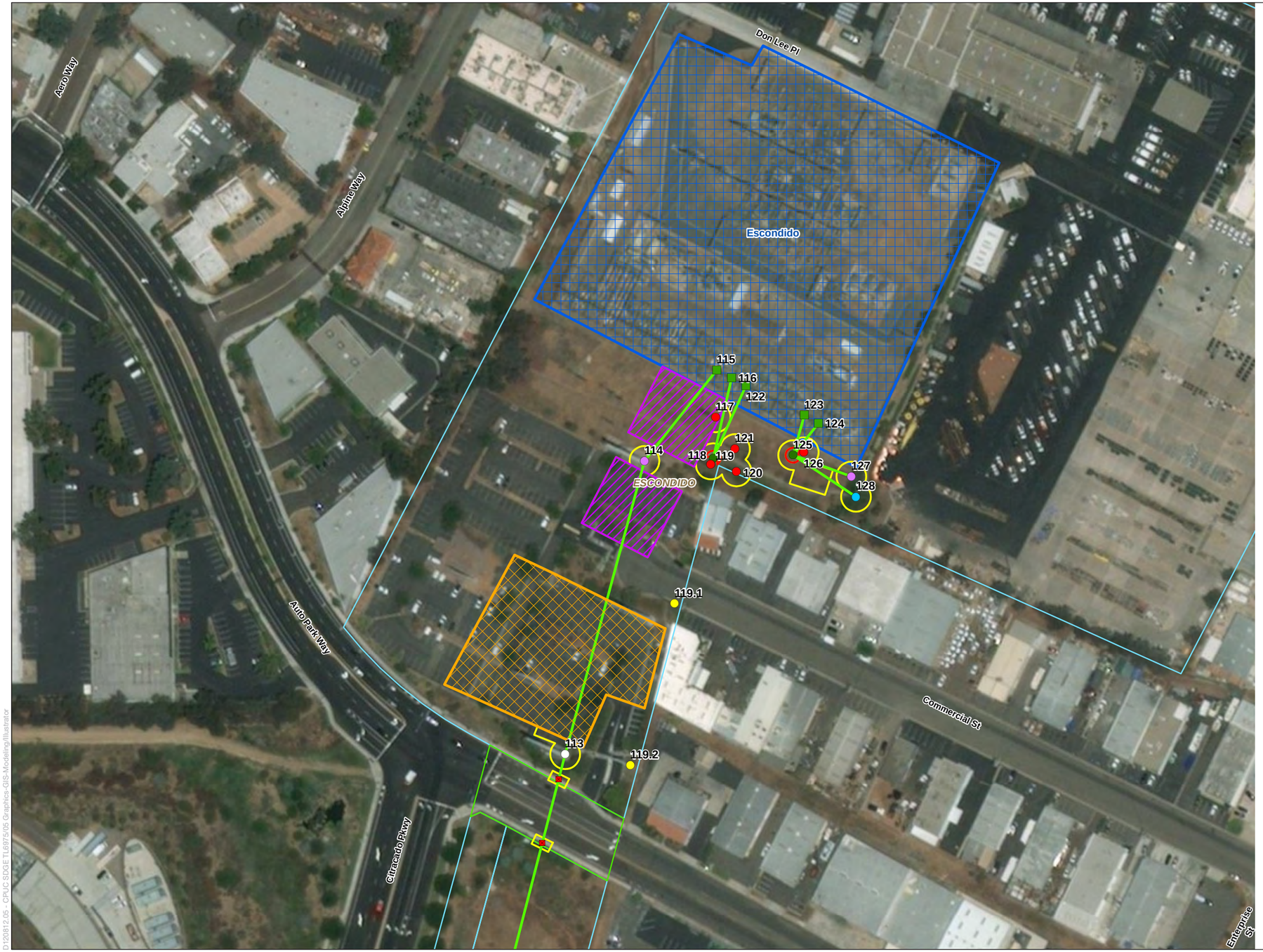
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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-43
Project Route Map

ESA



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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-44
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

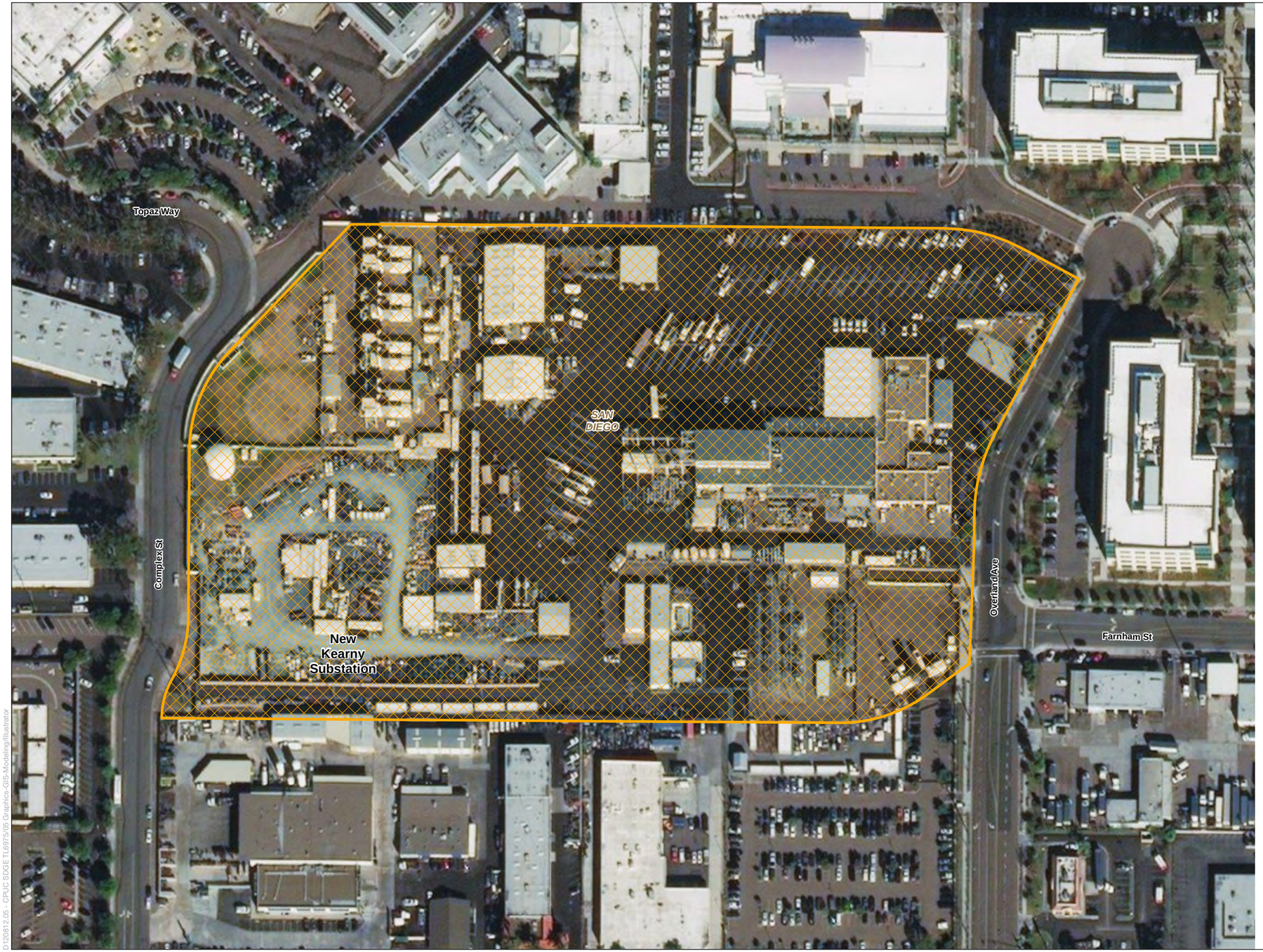
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SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-45
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator

SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-46
Project Route Map

ESA



Legend

Project Structures

- Replace existing with pier foundation
- New pier foundation
- Replace existing with direct bury
- New direct bury
- Overhead Work
- Overhead work / anchor work
- Existing structure re-energize conductors
- No work / information only
- Remove From Service
- Rack
- Guard Structures

Project Alignment

- Segment 1 - Rebuild
- Segment 2 - New Build
- Segment 3 - Reconductor

Project Features

- Existing Access Road
- New Permanent Access Road
- Distribution Trench
- Stringing Site
- Permanent Work Area or Grading Impacts
- Temporary Work Area or Grading Impacts
- Staging Yard
- Existing ROW
- Alignment in Franchise
- Approximate Additional ROW Required
- New Permanent Spur Road

General Features

- Interstate
- State Highway
- Railroad
- Existing Substation
- City Boundary
- County Boundary

0 100 200
Feet

N

D120812.05 - CPUC SDGE TL 6975 / 05 Graphics - GIS - Modeling / Illustrator

SOURCE: SDGE

TL 6975 San Marcos to Escondido Project

Figure A-47
Project Route Map

ESA

Appendix B
Mailing List

TABLE B-1
PUBLIC LIBRARIES

Name	Address
San Marcos Library	2 Civic Center Dr., San Marcos, CA 92069
Escondido Public Library	239 S Kalmia St., Escondido, CA 92025
Carlsbad City Library	1775 Dove Ln., Carlsbad, CA 92011

TABLE B-2
AGENCIES AND APPLICANT

Contact Name and Title	Agency/Organization	Address
Lead Agency		
Joyce Steingass, Project Manager	California Public Utilities Commission	505 Van Ness Avenue San Francisco, CA 94102
Applicant		
Tim Lyons	San Diego Gas & Electric, Regulatory Affairs	8330 Century Park Court San Diego, CA 92123
Robert Jr. Fletcher, Project Manager	San Diego Gas & Electric	8335 Century Park Court San Diego, CA 92123
William Yee	San Diego Gas & Electric	8335 Century Park Court San Diego, CA 92123
Federal Agencies		
Dan Swensen	U.S Army Corps of Engineers	915 Wilshire Blvd., Ste. 1101 Los Angeles, CA 90017
Karin Cleary-Rose	U.S Fish and Wildlife Service	2177 Salk Avenue, Ste. 250 Carlsbad, CA 92008
Bill Sapp, Operations Manager	Federal Aviation Administration	8525 Gibbs Drive Suite 120 San Diego, CA 92123
State Agencies		
Ed Pert, Regional Manager	California Department of Fish and Wildlife (South Coast Region- Region 5)	3883 Ruffin Road San Diego, CA 92123
Vanessa De La Rosa, Transportation Planner	California Department of Transportation (District 11)	4050 Taylor St. San Diego, CA 92110
Richard Corey, Executive Officer	California Air Resources Board	P.O Box 2815 Sacramento, CA 95812
Christine Root cc: Chris Davis	California Energy Commission	1516 9th Street Sacramento, CA 95814
Tom Howard	State Water Resources Control Board	1001 "I" Street Sacramento, CA 95814
	State Clearinghouse	1400 Tenth Street Sacramento, CA 95814
Local Agencies		
Judy Ritter, Mayor	City of Vista	200 Civic Center Drive Vista, CA 920084
Kathy Valdez, City Clerk	City of Vista	200 Civic Center Drive Vista, CA 920084
John Conley, Director of Community Development/Engineering	City of Vista	200 Civic Center Drive Vista, CA 92084
Andrea McCullough, Communications Officer	City of Vista	200 Civic Center Drive Vista, CA 92084
Director, Public Works Department	City of Vista	1165 East Taylor St. Vista, CA 92084

TABLE B-2 (CONTINUED)
AGENCIES AND APPLICANT

Contact Name and Title	Agency/Organization	Address
Local Agency (cont.)		
Patrick Johnson, City Manager	City of Vista	200 Civic Center Drive Vista, CA 92084
Rebecca Jones, Mayor	City of San Marcos	1 Civic Center Drive San Marcos, CA 92069
Phill Scollick, City Clerk	City of San Marcos	1 Civic Center Drive San Marcos, CA 92069
Susan Vandrew Rodriguez	City of San Marcos	1 Civic Center Drive San Marcos, CA 92069
Karen Brindley, Planning Division Manager	City of San Marcos	1 Civic Center Drive San Marcos, CA 92069
Dahvia Lynch, Development Services Director	City of San Marcos	1 Civic Center Drive San Marcos, CA 92069
Matt Little, Director of Public Works	City of San Marcos	201 Mata Way San Marcos, CA 92069
Jim Chafe, Deputy Public Works Director	City of San Marcos	201 Mata Way San Marcos, CA 92069
Jack Griffin, City Manager	City of San Marcos	1 Civic Center Drive San Marcos, CA 92069
Paul McNamara, Mayor	City of Escondido	201 North Broadway Escondido, CA 92026
Bill Martin, Director of Community Development	City of Escondido	201 North Broadway Escondido, CA 92026
Julie Procopio, Director of Engineering Services	City of Escondido	201 North Broadway Escondido, CA 92026
Joseph Goulart, Interim Director of Public Works	City of Escondido	201 North Broadway Escondido, CA 92026
Jeffrey R. Epp, City Manager	City of Escondido	201 North Broadway Escondido, CA 92026
Eva Heter, Interim City Clerk	City of Escondido	201 North Broadway Escondido, CA 92026
Matt Hall, Mayor	City of Carlsbad	1200 Carlsbad Village Drive Carlsbad, CA 92008
Barbra Engleson, City Clerk	City of Carlsbad	1200 Carlsbad Village Drive Carlsbad, CA 92008
Scott Chadwick City Manager	City of Carlsbad	1200 Carlsbad Village Drive Carlsbad, CA 92008
David de Cordova, Principal Planner	City of Carlsbad	1635 Faraday Ave Carlsbad, CA 92008
Teri Delcamp, Principal Planner	City of Carlsbad	1635 Faraday Ave Carlsbad, CA 92009
Paz Gomez, Director of Public Works	City of Carlsbad	1200 Carlsbad Village Drive Carlsbad, CA 92008
Kevin L. Faulconer, Mayor	City of San Diego	202 C Street, 11th floor San Diego, CA 92101
Elizabeth Maland, City Clerk	City of San Diego	202 C Street, 11th floor San Diego, CA 92101
Elyse Lowe, Director of Development Services	City of San Diego	202 C Street, 11th floor San Diego, CA 92101
Gregory P. Hopkins, P.L.S, Deputy Director of Engineering Division	City of San Diego	202 C Street, 11th floor San Diego, CA 92101

TABLE B-2 (CONTINUED)
AGENCIES AND APPLICANT

Contact Name and Title	Agency/Organization	Address
Local Agency (cont.)		
Gary Geiler, Deputy Director Land Development Review Division	City of San Diego	202 C Street, 11th floor San Diego, CA 92101
Bill Horn, County Supervisor (District 5)	San Diego County	5510 Overland Avenue Suite 310 San Diego, CA 92123
Mark Wardlaw, Director of Planning and Development Services	San Diego County	5510 Overland Avenue Suite 310 San Diego, CA 92123
Mark Slovick, Deputy Chief	San Diego County	5510 Overland Avenue Suite 310 San Diego, CA 92123
Sharon Ippolito	San Diego County	5511 Overland Avenue Suite 310 San Diego, CA 92123
Kathy Keehan	San Diego Air Pollution Control District	10124 Old Grove Road San Diego, CA 92131
David Gibson, Executive Officer	San Diego Regional Water Quality Control Board	2375 Northside Dr. San Diego, CA 92108
Elise Rothschild	San Diego Department of Environmental Health	P.O Box 129261 San Diego, CA 92112-9261

TABLE B-3
ORGANIZATIONS

Contact Name and Title	Organization	Address
Cami Mojado	San Luis Rey Band of Mission Indians	1889 Sunset Drive Vista, CA 92084
Clinton Linton	Santa Ysabel Band of the Iipay Nation	P.O. Box 507 Santa Ysabel, CA 92070
Destiny Colocho	Rincon Band of Luiseño Indians	1 West Tribal Road Valley Center, CA 92082
Bret Schanzenbach, CEO	Vista Chamber of Commerce	127 Main Street Vista, CA 92084
Ted Owen, President	Carlsbad Chamber of Commerce	5934 Priestly Drive Carlsbad, CA 92008
Rorie Johnston, CEO	Escondido Chamber of Commerce	720 North Broadway Escondido, CA 92025
Rick Rungaitis, President	San Marcos Chamber of Commerce	904 West San Marcos Boulevard San Marcos, CA 92078
Adam Dawson, Principal	San Marcos High School	1615 West San Marcos Boulevard San Marcos, CA 92078
Tova Corman, Facilities, Executive Director	San Marcos Unified School District	255 Pico Avenue, Suite 250 San Marcos, CA 92069
Elfin Forest Town Council	Eflin Forest Community	20223 Elfin Forest Road Elfin Forest, CA, 92029
Sarah Godfrey, Preserve Manager	Center for Natural Lands Management	27258 Via Industria Suite B Temecula, CA 92590

TABLE B-4
INDIVIDUALS

Name	Affiliation	Address
Samir Sugathan	Resident	2160 Rocky Point Way San Marcos, CA 92078
Richard Landi	Resident	1261 White Sands Dr. San Marcos, CA 92078
Adela Franco	President, Lake San Marcos Community Association	1030 La Bonita Drive, Suite 342 San Marcos, CA 92078
Liz McCardle	Community Director, San Elijo Hills Community Association	3207 Grey Hawk Court, Suite 140 Carlsbad, CA 92010
C. Wayne Dauber	Chair, Hidden Meadows Planning Group	28117 Par View Court Escondido, CA 92026
Joel Grosser	Stone Brewing	1999 Citracado Parkway Escondido, CA 92029
Mary Ellen Heilgeist	Executive Director, Brookdale Senior Living	1590 West San Marcos Boulevard San Marcos, CA 92078
Archie Gonzalez	Kindred Transitional Care & Rehabilitation	1586 West San Marcos Boulevard San Marcos, CA 92078
Jon G. Lycett	Senior Counsel, Paladin Law Group, LLP	2888 Loker Avenue East, Suite 113-B Carlsbad, CA 92010
Craig Gresbrink	Resident	2154 Island Shore Way Rancho Dorado, CA 92078
Robert Pack	Resident	1260 Summit Point Way San Marcos, CA 92078
JP Theberge	Chair, Elfin Forest Town Council	20223 Elfin Forest Road Elfin Forest, CA, 92029

TABLE B-5
SCHOOLS WITHIN 1 MILE OF THE PROJECT NOTIFICATION LIST

School Name	Address
Valley Christian School	1350 Discovery St. San Marcos, CA 92078
High Tech High School	1420 W. San Marcos Blvd. San Marcos, CA 92078
High Tech Middle School	1460 W. San Marcos Blvd. San Marcos, CA 92078
High Tech Elementary	1480 W. San Marcos Blvd. San Marcos, CA 92078
Discovery Elementary School	730 Applewide Dr. San Marcos, CA 92078
Alvin Dunn Elementary	3697 La Mirada Dr. San Marcos, CA 92078
Mountain Peak Charter	3220 Executive Ridge #160 Vista, CA 92084
Pivot Charter School	1030 La Bonita Dr. #100 San Marcos, CA 92078
Carlsbad Kindercare	6270 Flying Leo Carrillo Ln. Carlsbad, CA 92008
Escondido Union School District Gilbert Center	2310 Aldergrove Ave. Escondido, CA 92025
Del Dios Middle School	1400 W. 9th Street Escondido, CA 92025
san Elijo Middle School	1600 Schoolhouse Way San Marcos, CA 92078
San Elijo Elementary	1615 Schoolhouse Way San Marcos, CA 92078
Double Peak K8 School	111 San Elijo Road San Marcos, CA 92078
Dehesa Charter School	1441 Montiel Rd. #143 Escondido, CA 92025

600' NOTIFICATION LIST

1 Charles Lake Rd North Oaks, MN 55127	1988 Acorn Rd San Marcos, CA 92078
1 Civic Center Dr San Marcos, CA 92069	1989 Acorn Rd San Marcos, CA 92078
1 Cvs Dr Woonsocket RI 02895	1990 Acorn Rd San Marcos, CA 92078
1 Heath Ct Princeton, NK 08540	1990 Citracado Pkwy Escondido, CA 92029
1 Mauchly Irvine, CA 92618	1990 White Oak Ct San Marcos, CA 92078
10 Alder Bush Rochester, NY 14624	1993 Acorn Rd San Marcos, CA 92078
1001 Washington Ave Oceanside, CA 92054	1994 Acorn Rd San Marcos, CA 92078
1004 Norte Vista San Marcos, CA 92078	1994 White Oak Ct San Marcos, CA 92078
1005 Norte Vista San Marcos, CA 92078	1996 Acorn Rd San Marcos, CA 92078
1005 S Rose St Escondido, CA 92027	1996 White Oak Ct San Marcos, CA 92078
10056 Winecrest Rd San Diego, CA 92127	1998 Acorn Rd San Marcos, CA 92078
10077 Boulder Knolls Dr Escondido, CA 92026	1998 Citracado Pkwy Escondido, CA 92029
1009 Camino Del Arroyo Dr San Marcos, CA 92078	1999 Citracado Pkwy Escondido, CA 92029
101 Calle Nogales Walnut Creek, CA 94597	1999 W Citracado Pky Escondido, CA 92029
1011 Andreasen Dr S Escondido, CA 92029	20 Corporate Plaza Dr Newport Beach, CA 92660
1012 Norte Vista San Marcos, CA 92078	20 Pacifica #1470 Irvine, CA 92618
1013 Norte Vista San Marcos, CA 92078	2001 Sequoia St San Marcos, CA 92078
1015 Camino Del Arroyo Dr San Marcos, CA 92078	2001 Silverado St San Marcos, CA 92078
1020 Norte Vista San Marcos, CA 92078	2002 Acacia Dr San Marcos, CA 92078
1021 Camino Del Arroyo Dr San Marcos, CA 92078	2002 Silverado St San Marcos, CA 92078
1023 Norte Vista San Marcos, CA 92078	2003 Acacia Dr San Marcos, CA 92078
10250 Constellation Blvd #2700 Long Beach, CA 90067	2003 Sequoia St San Marcos, CA 92078
1027 Camino Del Arroyo Dr San Marcos, CA 92078	2003 Silverado St San Marcos, CA 92078
1028 Norte Vista San Marcos, CA 92078	2004 Acacia Dr San Marcos, CA 92078
1030 La Bonita Dr #322 San Marcos, CA 92078	2004 Silverado St San Marcos, CA 92078
1031 Andreasen Dr S Escondido, CA 92029	2005 Acacia Dr San Marcos, CA 92078
1033 Camino Del Arroyo Dr San Marcos, CA 92078	2005 Citracado Pkwy Escondido, CA 92029
1039 Camino Del Arroyo Dr San Marcos, CA 92078	2005 Sequoia St San Marcos, CA 92078
1040 Andreasen Dr Escondido, CA 92029	2005 Silverado St San Marcos, CA 92078
1040 S Andreasen Dr #200 Escondido, CA 92029	2006 Acacia Dr San Marcos, CA 92078
1040 S Andreasen Dr, Ste. 200 Escondido, CA 92029	2006 Silverado St San Marcos, CA 92078
10438 La Ballena Cir Fountain Valley, CA 92708	2007 Acacia Dr San Marcos, CA 92078
1045 Camino Del Arroyo Dr San Marcos, CA 92078	2007 Silverado St San Marcos, CA 92078
1045 Landavo Rancho Rd Escondido, CA 92027	2008 Acacia Dr San Marcos, CA 92078
1050 Lake Glen Way Sacramento, CA 95822	2008 Silverado St San Marcos, CA 92078
1051 Camino Del Arroyo Dr San Marcos, CA 92078	2009 Sequoia St San Marcos, CA 92078
1052 Camino Del Arroyo Dr San Marcos, CA 92078	2010 Sequoia St San Marcos, CA 92078
10545 Richard Rd San Diego, CA 92127	2010 Silverado St San Marcos, CA 92078
1057 Camino Del Arroyo Dr San Marcos, CA 92078	2010 W San Marcos Blvd #1 San Marcos, CA 92078
1057 Camino Del Arroyo San Marcos, CA 92078	2010 W San Marcos Blvd #10 San Marcos, CA 92078
1058 Camino Del Arroyo Dr San Marcos, CA 92078	2010 W San Marcos Blvd #100 San Marcos, CA 92078
1062 Brightwood Dr San Marcos, CA 92078	2010 W San Marcos Blvd #11 San Marcos, CA 92078
1066 N Cheyenne St Orange, CA 92869	2010 W San Marcos Blvd #12 San Marcos, CA 92078
10668 Gracewood Pl San Diego, CA 92130	2010 W San Marcos Blvd #13 San Marcos, CA 92078
1071 Tulloch Dr Tracy, CA 95304	2010 W San Marcos Blvd #14 San Marcos, CA 92078
1072 Pear Orchard Dr San Jose, CA 95131	2010 W San Marcos Blvd #15 San Marcos, CA 92078
10721 Treena St #200 San Diego, CA 92131	2010 W San Marcos Blvd #16 San Marcos, CA 92078
10805 Thornmint Rd #200 San Diego, CA 92127	2010 W San Marcos Blvd #17 San Marcos, CA 92078
1085 Village Dr Oceanside, CA 92057	2010 W San Marcos Blvd #18 San Marcos, CA 92078
1092 Camino Del Sol San Marcos, CA 92069	2010 W San Marcos Blvd #19 San Marcos, CA 92078
1101 Via Buena Vista San Marcos, CA 92078	2010 W San Marcos Blvd #2 San Marcos, CA 92078
111 C St #200 Encinitas, CA 92024	2010 W San Marcos Blvd #3 San Marcos, CA 92078
1110 Calle Emparrado San Marcos, CA 92069	2010 W San Marcos Blvd #5 San Marcos, CA 92078

600' NOTIFICATION LIST

1111 Polaris Pky #1j Columbus, OH 43240	2010 W San Marcos Blvd #58 San Marcos, CA 92078
1113 Via Buena Vista San Marcos, CA 92078	2010 W San Marcos Blvd #59 San Marcos, CA 92078
11163 Breckenridge Dr San Diego, CA 92131	2010 W San Marcos Blvd #6 San Marcos, CA 92078
1117 Pacifica Pl Encinitas, CA 92024	2010 W San Marcos Blvd #60 San Marcos, CA 92078
1121 W 11th Ave Escondido, CA 92025	2010 W San Marcos Blvd #61 San Marcos, CA 92078
1124 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd #7 San Marcos, CA 92078
1125 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd #8 San Marcos, CA 92078
1128 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd #88 San Marcos, CA 92078
1132 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd #89 San Marcos, CA 92078
11352 Mustang Ridge Dr San Diego, CA 92130	2010 W San Marcos Blvd #9 San Marcos, CA 92078
1136 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd #90 San Marcos, CA 92078
1137 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd #91 San Marcos, CA 92078
1139 S Santa Fe Ave Vista, CA 92083	2010 W San Marcos Blvd #92 San Marcos, CA 92078
1140 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd #93 San Marcos, CA 92078
1141 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd #94 San Marcos, CA 92078
1143 Calistoga Way San Marcos, CA 92078	2010 W San Marcos Blvd #96 San Marcos, CA 92078
1144 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd #99 San Marcos, CA 92078
1145 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. #3 San Marcos, CA 92078
1147 Calistoga Way San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 01 San Marcos, CA 92078
1148 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 02 San Marcos, CA 92078
1149 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 04 San Marcos, CA 92078
1149 Quail Hill Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 05 San Marcos, CA 92078
1151 Calistoga Way San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 06 San Marcos, CA 92078
1152 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 07 San Marcos, CA 92078
1153 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 08 San Marcos, CA 92078
1155 Calistoga Way San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 09 San Marcos, CA 92078
1156 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 10 San Marcos, CA 92078
1157 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 100 San Marcos, CA 92078
1159 Calistoga Way San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 11 San Marcos, CA 92078
1160 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 12 San Marcos, CA 92078
1161 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 13 San Marcos, CA 92078
1163 Calistoga Way San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 14 San Marcos, CA 92078
1164 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 15 San Marcos, CA 92078
1165 Calistoga Way San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 16 San Marcos, CA 92078
1167 Glen Ellen Pl San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 17 San Marcos, CA 92078
1171 N Tustin Ave Anaheim, CA 92807	2010 W San Marcos Blvd, Ste. 171 San Marcos, CA 92078
118 Cambridge Way Nicholasville, KY 40356	2010 W San Marcos Blvd, Ste. 18 San Marcos, CA 92078
119 Good Hope Rd Bluffton, SC 29909	2010 W San Marcos Blvd, Ste. 19 San Marcos, CA 92078
119 N El Camino Real #E Encinitas, CA 92024	2010 W San Marcos Blvd, Ste. 58 San Marcos, CA 92078
120 N Pacific St #A5 San Marcos, CA 92069	2010 W San Marcos Blvd, Ste. 59 San Marcos, CA 92078
1200 White Sands Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 60 San Marcos, CA 92078
12000 Shaw Valley Rd San Diego, CA 92130	2010 W San Marcos Blvd, Ste. 61 San Marcos, CA 92078
1201 White Sands Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 62 San Marcos, CA 92078
1202 White Sands Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 88 San Marcos, CA 92078
1203 White Sands Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 89 San Marcos, CA 92078
1204 White Sands Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 90 San Marcos, CA 92078
1205 White Sands Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 91 San Marcos, CA 92078
1206 Sand Dollar Way San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 92 San Marcos, CA 92078
1206 White Sands Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 93 San Marcos, CA 92078
1207 Sand Dollar Way San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 94 San Marcos, CA 92078
1207 White Sands Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 95 San Marcos, CA 92078
1208 Sand Dollar Way San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 96 San Marcos, CA 92078
1208 White Sands Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 97 San Marcos, CA 92078

600' NOTIFICATION LIST

1209 Sand Dollar Way San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 98 San Marcos, CA 92078
1209 White Sands Dr San Marcos, CA 92078	2010 W San Marcos Blvd, Ste. 99 San Marcos, CA 92078
121 N Garden Ct Lewiston ID 83501	2011 Silverado St San Marcos, CA 92078
1210 Sand Dollar Way San Marcos, CA 92078	2012 Silverado St San Marcos, CA 92078
1210 White Sands Dr San Marcos, CA 92078	2013 Sequoia St San Marcos, CA 92078
1212 Marsh St #3 San Luis Obispo, CA 93401	2013 Silverado St San Marcos, CA 92078
1212 Sand Dollar Way San Marcos, CA 92078	2014 Silverado St San Marcos, CA 92078
1212 White Sands Dr San Marcos, CA 92078	2015 Sequoia St San Marcos, CA 92078
1215 Pacific Oaks Pl #106 Escondido, CA 92029	2015 Silverado St San Marcos, CA 92078
1215 Pacific Oaks Pl Escondido, CA 92029	2016 Sequoia St San Marcos, CA 92078
1215 San Elijo Rd San Marcos, CA 92078	2016 Silverado St San Marcos, CA 92078
1215 Sand Dollar Way San Marcos, CA 92078	2017 Sequoia St San Marcos, CA 92078
1215 White Sands Dr San Marcos, CA 92078	2017 Silverado St San Marcos, CA 92078
1216 Sand Dollar Way San Marcos, CA 92078	2018 Silverado St San Marcos, CA 92078
1217 Sand Dollar Way San Marcos, CA 92078	202 S Pacific St Oceanside, CA 92054
1218 Sand Dollar Way San Marcos, CA 92078	2020 Sequoia St San Marcos, CA 92078
1218 White Sands Dr San Marcos, CA 92078	2020 Silverado St San Marcos, CA 92078
1219 Michigan Ct Alexandria, VA 22314	2021 Sequoia St San Marcos, CA 92078
1219 Sand Dollar Way San Marcos, CA 92078	2022 Sequoia St San Marcos, CA 92078
1219 White Sands Dr San Marcos, CA 92078	2022 Silverado St San Marcos, CA 92078
1220 Granada Way San Marcos, CA 92078	2023 Sequoia St San Marcos, CA 92078
1220 Sand Dollar Way San Marcos, CA 92078	2023 Silverado St San Marcos, CA 92078
1220 White Sands Dr San Marcos, CA 92078	2024 Sequoia St San Marcos, CA 92078
1221 Granada Way San Marcos, CA 92078	2025 Sequoia St San Marcos, CA 92078
1221 White Sands Dr San Marcos, CA 92078	2025 Silverado St San Marcos, CA 92078
1222 Sand Dollar Way San Marcos, CA 92078	2026 Sequoia St San Marcos, CA 92078
1223 Pacific Oaks Pl Escondido, CA 92029	2027 Sequoia St San Marcos, CA 92078
1224 Granada Way San Marcos, CA 92078	2027 Silverado St San Marcos, CA 92078
1224 White Sands Dr San Marcos, CA 92078	2028 Caracol Ct Carlsbad, CA 92009
1225 E Vista Way Vista, CA 92084	2028 Sequoia St San Marcos, CA 92078
1225 Granada Way San Marcos, CA 92078	2029 Silverado St San Marcos, CA 92078
1225 White Sands Dr San Marcos, CA 92078	2030 Sequoia St San Marcos, CA 92078
1227 White Sands Dr San Marcos, CA 92078	2030 Silverado St San Marcos, CA 92078
1228 Rue Saint Jean Lake San Marcos, CA 92078	2031 Sequoia St San Marcos, CA 92078
1229 Granada Way San Marcos, CA 92078	2032 Silverado St San Marcos, CA 92078
1229 White Sands Dr San Marcos, CA 92078	2033 Silverado St San Marcos, CA 92078
1230 Granada Way San Marcos, CA 92078	2034 Sequoia St San Marcos, CA 92078
1231 Granada Way San Marcos, CA 92078	2034 Silverado St San Marcos, CA 92078
1232 Granada Way San Marcos, CA 92078	2035 Sequoia St San Marcos, CA 92078
1233 Granada Way San Marcos, CA 92078	2035 Silverado St San Marcos, CA 92078
1233 White Sands Dr San Marcos, CA 92078	2036 Silverado St San Marcos, CA 92078
1234 Granada Way San Marcos, CA 92078	2037 Silverado St San Marcos, CA 92078
1235 Discovery St San Marcos, CA 92078	2038 Cambridge Ave Cardiff, CA 92007
1235 Granada Way San Marcos, CA 92078	2038 Sequoia St San Marcos, CA 92078
1235 White Sands Dr San Marcos, CA 92078	2038 Silverado St San Marcos, CA 92078
1236 Granada Way San Marcos, CA 92078	2039 Sequoia St San Marcos, CA 92078
1237 Granada Way San Marcos, CA 92078	2039 Silverado St San Marcos, CA 92078
1237 White Sands Dr San Marcos, CA 92078	2040 Sequoia St San Marcos, CA 92078
12375 Kerran St Poway, CA 92064	2040 Silverado St San Marcos, CA 92078
1239 Granada Way San Marcos, CA 92078	2042 Sequoia St San Marcos, CA 92078
1239 White Sands Dr San Marcos, CA 92078	2042 Silverado St San Marcos, CA 92078
1241 Carlsbad Village Dr #G Carlsbad, CA 92008	2043 Redwood Crst Vista, CA 92081
1241 Granada Way San Marcos, CA 92078	2043 Silverado St San Marcos, CA 92078

600' NOTIFICATION LIST

1241 W San Marcos Blvd San Marcos, CA 92078	2044 Sequoia St San Marcos, CA 92078
1241 White Sands Dr San Marcos, CA 92078	2044 Silverado St San Marcos, CA 92078
1242 White Sands Dr San Marcos, CA 92078	2045 Silverado St San Marcos, CA 92078
1243 Discovery St San Marcos, CA 92078	2046 Sequoia St San Marcos, CA 92078
1243 Granada Way San Marcos, CA 92078	2046 Silverado St San Marcos, CA 92078
1243 White Sands Dr San Marcos, CA 92078	2047 Silverado St San Marcos, CA 92078
1244 White Sands Dr San Marcos, CA 92078	2048 Silverado St San Marcos, CA 92078
1245 Granada Way San Marcos, CA 92078	2049 Silverado St San Marcos, CA 92078
1245 White Sands Dr San Marcos, CA 92078	2055 Citracado Pkwy Escondido, CA 92029
1247 Discovery St San Marcos, CA 92078	2055 Silverado St San Marcos, CA 92078
1247 Elfin Forest Rd W San Marcos, CA 92078	2056 Silverado St San Marcos, CA 92078
1247 Granada Way San Marcos, CA 92078	20560 Questhaven Rd Escondido, CA 92078
1247 W San Marcos Blvd San Marcos, CA 92078	20560 Questhaven Rd San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A1 San Marcos, CA 92078	2057 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A10 San Marcos, CA 92078	2058 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A11 San Marcos, CA 92078	2059 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A12 San Marcos, CA 92078	2060 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A13 San Marcos, CA 92078	2061 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A14 San Marcos, CA 92078	2061 Wineridge Pl Escondido, CA 92029
1247 W San Marcos Blvd, Ste. A15 San Marcos, CA 92078	2062 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A2 San Marcos, CA 92078	2063 Wineridge Pl Escondido, CA 92029
1247 W San Marcos Blvd, Ste. A3 San Marcos, CA 92078	2064 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A4 San Marcos, CA 92078	2065 Citracado Pkwy Escondido, CA 92029
1247 W San Marcos Blvd, Ste. A5 San Marcos, CA 92078	2065 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A6 San Marcos, CA 92078	2066 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A7 San Marcos, CA 92078	2067 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. A8 San Marcos, CA 92078	2067 Wineridge Pl #A Escondido, CA 92029
1247 W San Marcos Blvd, Ste. A9 San Marcos, CA 92078	2067 Wineridge Pl #F Escondido, CA 92029
1247 W San Marcos Blvd, Ste. B1 San Marcos, CA 92078	2067 Wineridge Pl, Ste. A Escondido, CA 92029
1247 W San Marcos Blvd, Ste. B10 San Marcos, CA 92078	2067 Wineridge Pl, Ste. B Escondido, CA 92029
1247 W San Marcos Blvd, Ste. B11 San Marcos, CA 92078	2067 Wineridge Pl, Ste. C Escondido, CA 92029
1247 W San Marcos Blvd, Ste. B12 San Marcos, CA 92078	2067 Wineridge Pl, Ste. D Escondido, CA 92029
1247 W San Marcos Blvd, Ste. B13 San Marcos, CA 92078	2067 Wineridge Pl, Ste. E Escondido, CA 92029
1247 W San Marcos Blvd, Ste. B14 San Marcos, CA 92078	2067 Wineridge Pl, Ste. F Escondido, CA 92029
1247 W San Marcos Blvd, Ste. B15 San Marcos, CA 92078	2068 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. B2 San Marcos, CA 92078	2069 Aldergrove Ave Escondido, CA 92029
1247 W San Marcos Blvd, Ste. B3 San Marcos, CA 92078	2069 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. B4 San Marcos, CA 92078	2070 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. B5 San Marcos, CA 92078	2071 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. B6 San Marcos, CA 92078	2071 Wineridge Pl Escondido, CA 92029
1247 W San Marcos Blvd, Ste. B7 San Marcos, CA 92078	2072 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. B8 San Marcos, CA 92078	2074 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. B9 San Marcos, CA 92078	2075 Citracado Pkwy Escondido, CA 92029
1247 W San Marcos Blvd, Ste. C1 San Marcos, CA 92078	2075 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. C2 San Marcos, CA 92078	2076 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. C3 San Marcos, CA 92078	2077 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. C4 San Marcos, CA 92078	2078 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. C5 San Marcos, CA 92078	2079 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. C6 San Marcos, CA 92078	2081 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. C7 San Marcos, CA 92078	20845 Questhaven Rd San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. C8 San Marcos, CA 92078	2086 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. D1 San Marcos, CA 92078	2087 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. D2 San Marcos, CA 92078	2088 Silverado St San Marcos, CA 92078

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1247 W San Marcos Blvd, Ste. D3 San Marcos, CA 92078	2089 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. D4 San Marcos, CA 92078	209 Avenida Del Mar #201 San Clemente, CA 92672
1247 W San Marcos Blvd, Ste. D5 San Marcos, CA 92078	2090 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. D6 San Marcos, CA 92078	2091 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. D7 San Marcos, CA 92078	2092 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. D8 San Marcos, CA 92078	2093 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E1 San Marcos, CA 92078	2094 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E10 San Marcos, CA 92078	2096 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E11 San Marcos, CA 92078	2097 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E12 San Marcos, CA 92078	2098 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E13 San Marcos, CA 92078	2099 Citracado Pkwy Escondido, CA 92029
1247 W San Marcos Blvd, Ste. E14 San Marcos, CA 92078	2099 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E15 San Marcos, CA 92078	2100 Citracado Pkwy Escondido, CA 92029
1247 W San Marcos Blvd, Ste. E2 San Marcos, CA 92078	2100 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E3 San Marcos, CA 92078	2101 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E4 San Marcos, CA 92078	2102 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E5 San Marcos, CA 92078	2103 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E6 San Marcos, CA 92078	2104 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E7 San Marcos, CA 92078	2105 Caminito Del Barco Del Mar, CA 92014
1247 W San Marcos Blvd, Ste. E8 San Marcos, CA 92078	21050 Questhaven Rd San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. E9 San Marcos, CA 92078	2106 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F1 San Marcos, CA 92078	21065 Questhaven Rd Escondido, CA 92078
1247 W San Marcos Blvd, Ste. F-10 San Marcos, CA 92078	2108 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F11 San Marcos, CA 92078	2109 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F12 San Marcos, CA 92078	2110 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F13 San Marcos, CA 92078	2111 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F14 San Marcos, CA 92078	2113 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F15 San Marcos, CA 92078	2115 Sea Island Pl San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F2 San Marcos, CA 92078	2115 Silverado St San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F3 San Marcos, CA 92078	2116 Crystal Cove Way San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F4 San Marcos, CA 92078	2116 Sea Island Pl San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F5 San Marcos, CA 92078	2117 Sea Island Pl San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F6 San Marcos, CA 92078	2118 Crystal Cove Way San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F7 San Marcos, CA 92078	2118 Imperial Ave San Diego, CA 92102
1247 W San Marcos Blvd, Ste. F8 San Marcos, CA 92078	2118 Sea Island Pl San Marcos, CA 92078
1247 W San Marcos Blvd, Ste. F9 San Marcos, CA 92078	2118 Silverado St San Marcos, CA 92078
1247 White Sands Dr San Marcos, CA 92078	2119 Sand Crest Way San Marcos, CA 92078
1248 San Julian Pl San Marcos, CA 92078	2119 Sea Island Pl San Marcos, CA 92078
1248 White Sands Dr San Marcos, CA 92078	2119 Silverado St San Marcos, CA 92078
1249 E Imperial Hwy #A Placentia, CA 92870	2120 Crystal Cove Way San Marcos, CA 92078
1249 Granada Way San Marcos, CA 92078	2120 Harmony Grove Rd Escondido, CA 92029
1250 White Sands Dr San Marcos, CA 92078	2120 Sand Crest Way San Marcos, CA 92078
1251 Discovery St San Marcos, CA 92078	2120 Sea Island Pl San Marcos, CA 92078
1251 Granada Way San Marcos, CA 92078	2120 Silverado St San Marcos, CA 92078
1253 Granada Way San Marcos, CA 92078	2121 Chablis Ct Escondido, CA 92029
1255 Discovery St San Marcos, CA 92078	2121 Sand Crest Way San Marcos, CA 92078
1256 Granada Way San Marcos, CA 92078	2121 Sea Island Pl San Marcos, CA 92078
1256 Summit Point Way San Marcos, CA 92078	2121 Silverado St San Marcos, CA 92078
1258 Granada Way San Marcos, CA 92078	21219 Questhaven Rd San Marcos, CA 92078
1258 Summit Point Way San Marcos, CA 92078	2122 Crystal Cove Way San Marcos, CA 92078
1259 Discovery St San Marcos, CA 92078	2122 Sand Crest Way San Marcos, CA 92078
1259 Granada Way San Marcos, CA 92078	2122 Sea Island Pl San Marcos, CA 92078
1260 Liberty Way #B Vista, CA 92081	2122 Silverado St San Marcos, CA 92078

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1260 Summit Point Way San Marcos, CA 92078	2123 Sand Crest Way San Marcos, CA 92078
1261 Granada Way San Marcos, CA 92078	2123 Sea Island Pl San Marcos, CA 92078
1262 Summit Point Way San Marcos, CA 92078	2123 Silverado St San Marcos, CA 92078
1263 Discovery St San Marcos, CA 92078	21230 Questhaven Rd Escondido, CA 92078
1264 Granada Way San Marcos, CA 92078	2124 Sand Crest Way San Marcos, CA 92078
1264 Summit Point Way San Marcos, CA 92078	2124 Sea Island Pl San Marcos, CA 92078
1265 Caminito Septimo Cardiff, CA 92007	2124 Silverado St San Marcos, CA 92078
1266 Granada Way San Marcos, CA 92078	2125 Citracado Pkwy Escondido, CA 92029
1266 Summit Point Way San Marcos, CA 92078	2125 S El Camino Real #210 Oceanside, CA 92054
12669 E 131st St Fishers In 46037	2125 Sand Crest Way San Marcos, CA 92078
1267 Discovery St San Marcos, CA 92078	2125 Sea Island Pl San Marcos, CA 92078
1267 Granada Way San Marcos, CA 92078	2125 Silverado St San Marcos, CA 92078
1268 Summit Point Way San Marcos, CA 92078	2126 Sand Crest Way San Marcos, CA 92078
1269 Granada Way San Marcos, CA 92078	2126 Se Marine Science Dr Newport, OR 97365
1270 Summit Point Way San Marcos, CA 92078	2126 Sea Island Pl San Marcos, CA 92078
1271 Discovery St San Marcos, CA 92078	2126 Silverado St San Marcos, CA 92078
1271 Granada Way San Marcos, CA 92078	2127 Sand Crest Way San Marcos, CA 92078
1273 Granada Way San Marcos, CA 92078	2128 Sand Crest Way San Marcos, CA 92078
1275 Discovery St San Marcos, CA 92078	2128 Sea Island Pl San Marcos, CA 92078
1275 Emerald Sea Way San Marcos, CA 92078	2128 Silverado St San Marcos, CA 92078
1275 Granada Way San Marcos, CA 92078	2129 Sand Crest Way San Marcos, CA 92078
1276 Emerald Sea Way San Marcos, CA 92078	2129 Silverado St San Marcos, CA 92078
1277 Emerald Sea Way San Marcos, CA 92078	2130 Citracado Pkwy Escondido, CA 92029
1277 Granada Way San Marcos, CA 92078	2130 Sand Crest Way San Marcos, CA 92078
1277 Pacific Oaks Pl #100 Escondido, CA 92029	2130 Sea Island Pl San Marcos, CA 92078
1277 Pacific Oaks Pl Escondido, CA 92029	2130 Silverado St San Marcos, CA 92078
1278 Emerald Sea Way San Marcos, CA 92078	21303 Bresa De Loma Dr Escondido, CA 92029
1279 Emerald Sea Way San Marcos, CA 92078	2131 Sand Crest Way San Marcos, CA 92078
1279 Granada Way San Marcos, CA 92078	2131 Silverado St San Marcos, CA 92078
1281 Emerald Sea Way San Marcos, CA 92078	2132 Sand Crest Way San Marcos, CA 92078
1281 W San Marcos Blvd San Marcos, CA 92078	2132 Sea Island Pl San Marcos, CA 92078
1284 Emerald Sea Way San Marcos, CA 92078	2132 Silverado St San Marcos, CA 92078
1284 Granada Way San Marcos, CA 92078	2132 Sun Valley Rd San Marcos, CA 92078
1285 Emerald Sea Way San Marcos, CA 92078	2133 Sand Crest Way San Marcos, CA 92078
1285 Granada Way San Marcos, CA 92078	2133 Silverado St San Marcos, CA 92078
1285 W Discovery St San Marcos, CA 92078	2133 Sun Valley Rd San Marcos, CA 92078
1286 Discovery St #148 San Marcos, CA 92078	2134 Sea Island Pl San Marcos, CA 92078
1286 Discovery St #149 San Marcos, CA 92078	2134 Silverado St San Marcos, CA 92078
1286 Discovery St San Marcos, CA 92078	2134 Sun Valley Rd San Marcos, CA 92078
1286 Discovery St, Ste. 148 San Marcos, CA 92078	21348 Bresa De Loma Dr Escondido, CA 92029
1286 Discovery St, Ste. 149 San Marcos, CA 92078	2135 Citracado Pkwy Escondido, CA 92029
1286 Emerald Sea Way San Marcos, CA 92078	2135 Sand Crest Way San Marcos, CA 92078
1286 Granada Way San Marcos, CA 92078	2135 Silverado St San Marcos, CA 92078
12865 Pointe Del Mar Way #200 Del Mar, CA 92014	2135 Sun Valley Rd San Marcos, CA 92078
1287 Granada Way San Marcos, CA 92078	2136 Sea Island Pl San Marcos, CA 92078
1288 Emerald Sea Way San Marcos, CA 92078	2136 Silverado St San Marcos, CA 92078
129 Feathercrest Ln Apex, NC 27539	2137 Sand Crest Way San Marcos, CA 92078
1290 Emerald Sea Way San Marcos, CA 92078	2138 Sea Island Pl San Marcos, CA 92078
1291 Pacific Oaks Pl Escondido, CA 92029	2138 Silverado St San Marcos, CA 92078
1292 Emerald Sea Way San Marcos, CA 92078	2138 Sun Valley Rd San Marcos, CA 92078
1293 Granada Way San Marcos, CA 92078	2139 Silverado St San Marcos, CA 92078
1294 Emerald Sea Way San Marcos, CA 92078	2140 Island Shore Way San Marcos, CA 92078
1294 Granada Way San Marcos, CA 92078	2140 Silverado St San Marcos, CA 92078

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1295 Granada Way San Marcos, CA 92078	2140 Sun Valley Rd San Marcos, CA 92078
1296 Granada Way San Marcos, CA 92078	2141 Island Shore Way San Marcos, CA 92078
1301 Elfin Forest Rd San Marcos, CA 92078	2141 Silverado St San Marcos, CA 92078
1303 San Julian Dr San Marcos, CA 92078	2142 Coast Ave San Marcos, CA 92078
1304 San Pablo Ct San Marcos, CA 92078	2142 Island Shore Way San Marcos, CA 92078
13087 Abing Ave San Diego, CA 92129	2143 Sea Island Pl San Marcos, CA 92078
1312 San Pablo Ct San Marcos, CA 92078	2143 Silverado St San Marcos, CA 92078
13148 Herrick Ave Sylmar, CA 91342	21430 Bresa De Loma Dr Escondido, CA 92029
13155 Noel 100 Lb73 Dallas, TX 75240	21430 Questhaven Rd Escondido, CA 92078
13172 Flint Dr Santa Ana, CA 92705	2144 Coast Ave San Marcos, CA 92078
1318 San Pablo Ct San Marcos, CA 92078	2145 Coast Ave San Marcos, CA 92078
1319 San Pablo Ct San Marcos, CA 92078	2145 Island Shore Way San Marcos, CA 92078
1324 San Pablo Ct San Marcos, CA 92078	2145 Sea Island Pl San Marcos, CA 92078
1325 Oak View Way Escondido, CA 92029	2145 Silverado St San Marcos, CA 92078
1325 San Pablo Ct San Marcos, CA 92078	2146 Coast Ave San Marcos, CA 92078
13261 Denara Rd San Diego, CA 92130	2146 Island Shore Way San Marcos, CA 92078
1329 San Pablo Ct San Marcos, CA 92078	2147 Coast Ave San Marcos, CA 92078
1330 San Pablo Ct San Marcos, CA 92078	2147 Island Shore Way San Marcos, CA 92078
13405 Walnutwood Ln Germantown Md 20874	2148 Amanda Ln Escondido, CA 92029
1346 Via Conejo Escondido, CA 92029	2148 Coast Ave San Marcos, CA 92078
13469 Sydney Rae Pl San Diego, CA 92129	2148 Island Shore Way San Marcos, CA 92078
1350 Dandelion Way San Marcos, CA 92078	2148 Silverado St San Marcos, CA 92078
1350 Discovery Rd San Marcos, CA 92078	2149 Island Shore Way San Marcos, CA 92078
1350 Discovery St San Marcos, CA 92078	21498 Bresa De Loma Dr Escondido, CA 92029
1351 Abbey Ln San Marcos, CA 92078	2150 Citracado Pkwy Escondido, CA 92029
1352 Dandelion Way San Marcos, CA 92078	2150 Coast Ave San Marcos, CA 92078
1353 Abbey Ln San Marcos, CA 92078	2150 Goya Pl San Marcos, CA 92078
1354 Dandelion Way San Marcos, CA 92078	2150 Island Shore Way San Marcos, CA 92078
1355 Abbey Ln San Marcos, CA 92078	2150 Silverado St San Marcos, CA 92078
1356 Dandelion Way San Marcos, CA 92078	2151 Coast Ave San Marcos, CA 92078
1357 Abbey Ln San Marcos, CA 92078	2151 Goya Pl San Marcos, CA 92078
1358 Dandelion Way San Marcos, CA 92078	2151 Island Shore Way San Marcos, CA 92078
1359 Abbey Ln San Marcos, CA 92078	2151 Silverado St San Marcos, CA 92078
1360 Dandelion Way San Marcos, CA 92078	2152 Goya Pl San Marcos, CA 92078
1361 Abbey Ln San Marcos, CA 92078	2152 Island Shore Way San Marcos, CA 92078
1362 Dandelion Way San Marcos, CA 92078	2152 Silverado St San Marcos, CA 92078
1363 Abbey Ln San Marcos, CA 92078	2153 Coast Ave San Marcos, CA 92078
1364 Dandelion Way San Marcos, CA 92078	2153 Goya Pl San Marcos, CA 92078
1365 Abbey Ln San Marcos, CA 92078	2153 Island Shore Way San Marcos, CA 92078
1368 Dandelion Way San Marcos, CA 92078	2153 Silverado St San Marcos, CA 92078
1369 Cattail Ct San Marcos, CA 92078	2154 Coast Ave San Marcos, CA 92078
1370 Dandelion Way San Marcos, CA 92078	2154 Island Shore Way San Marcos, CA 92078
1370 San Marcos Blvd San Marcos, CA 92078	2154 Silverado St San Marcos, CA 92078
1371 Cattail Ct San Marcos, CA 92078	2155 Coast Ave San Marcos, CA 92078
1372 Dandelion Way San Marcos, CA 92078	2155 Goya Pl San Marcos, CA 92078
1373 Cattail Ct San Marcos, CA 92078	2155 Island Shore Way San Marcos, CA 92078
1374 Dandelion Way San Marcos, CA 92078	2155 Silverado St San Marcos, CA 92078
1375 Cattail Ct San Marcos, CA 92078	2156 Coast Ave San Marcos, CA 92078
1376 Dandelion Way San Marcos, CA 92078	2156 Goya Pl San Marcos, CA 92078
1377 Cattail Ct San Marcos, CA 92078	2156 Island Shore Way San Marcos, CA 92078
1379 Cattail Ct San Marcos, CA 92078	2156 Silverado St San Marcos, CA 92078
1380 Beringer Ln Vista, CA 92081	2157 Coast Ave San Marcos, CA 92078
1380 Dandelion Way San Marcos, CA 92078	2157 Goya Pl San Marcos, CA 92078

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1381 Cattail Ct San Marcos, CA 92078	2157 Island Shore Way San Marcos, CA 92078
13811 Danielson St Poway, CA 92064	2157 Silverado St San Marcos, CA 92078
1382 Dandelion Way San Marcos, CA 92078	2158 Coast Ave San Marcos, CA 92078
1383 Cattail Ct San Marcos, CA 92078	2158 Goya Pl San Marcos, CA 92078
1384 Dandelion Way San Marcos, CA 92078	2158 Island Shore Way San Marcos, CA 92078
1385 Cattail Ct San Marcos, CA 92078	2158 Silverado St San Marcos, CA 92078
1386 Dandelion Way San Marcos, CA 92078	2159 Coast Ave San Marcos, CA 92078
1387 Cattail Ct San Marcos, CA 92078	2159 Goya Pl San Marcos, CA 92078
1388 Dandelion Way San Marcos, CA 92078	2159 Island Shore Way San Marcos, CA 92078
1389 Cattail Ct San Marcos, CA 92078	2160 Coast Ave San Marcos, CA 92078
1390 Dandelion Way San Marcos, CA 92078	2160 Goya Pl San Marcos, CA 92078
1391 Cattail Ct San Marcos, CA 92078	2160 Island Shore Way San Marcos, CA 92078
1392 Dandelion Way San Marcos, CA 92078	2160 Silverado St San Marcos, CA 92078
1393 Cattail Ct San Marcos, CA 92078	2161 Coast Ave San Marcos, CA 92078
1394 Dandelion Way San Marcos, CA 92078	2161 Silverado St San Marcos, CA 92078
13948 Amber Sky Ln San Diego, CA 92129	2162 Island Shore Way San Marcos, CA 92078
1395 Cattail Ct San Marcos, CA 92078	2162 Silverado St San Marcos, CA 92078
1397 Cattail Ct San Marcos, CA 92078	2163 Coast Ave San Marcos, CA 92078
1399 Cattail Ct San Marcos, CA 92078	2163 Goya Pl San Marcos, CA 92078
1401 Rivercrest Rd San Marcos, CA 92078	2163 Silverado St San Marcos, CA 92078
1403 Rivercrest Rd San Marcos, CA 92078	2164 Coast Ave San Marcos, CA 92078
14041 Kelowna Ln Valley Center, CA 92082	2164 Island Shore Way San Marcos, CA 92078
1405 Rivercrest Rd San Marcos, CA 92078	2164 Silverado St San Marcos, CA 92078
1406 Via Valente Escondido, CA 92029	2165 Coast Ave San Marcos, CA 92078
1407 Rivercrest Rd San Marcos, CA 92078	2165 Silverado St San Marcos, CA 92078
1409 Rivercrest Rd San Marcos, CA 92078	21659 Wilgen Rd Escondido, CA 92029
1410 Willowview Ct Encinitas, CA 92024	2166 Coast Ave San Marcos, CA 92078
1413 Rivercrest Rd San Marcos, CA 92078	2166 Island Shore Way San Marcos, CA 92078
1415 Rivercrest Rd San Marcos, CA 92078	2166 Silverado St San Marcos, CA 92078
1416 Cressa Ct Carlsbad, CA 92011	2167 Silverado St San Marcos, CA 92078
1417 Rivercrest Rd San Marcos, CA 92078	21671 Wilgen Rd Escondido, CA 92029
1419 Rivercrest Rd San Marcos, CA 92078	2168 Island Shore Way San Marcos, CA 92078
1420 W San Marcos Blvd San Marcos, CA 92078	2168 Silverado St San Marcos, CA 92078
1421 Rivercrest Rd San Marcos, CA 92078	2170 Citracado Pkwy Escondido, CA 92029
1423 Rivercrest Rd San Marcos, CA 92078	2170 Island Shore Way San Marcos, CA 92078
1427 Rivercrest Rd San Marcos, CA 92078	2170 Silverado St San Marcos, CA 92078
1429 Rivercrest Rd San Marcos, CA 92078	2171 Coast Ave San Marcos, CA 92078
1430 Via Del Corvo San Marcos, CA 92078	2171 Silverado St San Marcos, CA 92078
1433 Rivercrest Rd San Marcos, CA 92078	2172 Island Shore Way San Marcos, CA 92078
1434 Anthony Heights Dr Escondido, CA 92026	2172 Rocky Point Way San Marcos, CA 92078
1434 Rivercrest Rd San Marcos, CA 92078	2172 Silverado St San Marcos, CA 92078
1435 Rivercrest Rd San Marcos, CA 92078	2173 Coast Ave San Marcos, CA 92078
1436 Rivercrest Rd San Marcos, CA 92078	2173 Silverado St San Marcos, CA 92078
1437 Rivercrest Rd San Marcos, CA 92078	2174 Island Shore Way San Marcos, CA 92078
1438 E Feemster Ave Visalia, CA 93292	2174 Silverado St San Marcos, CA 92078
1439 Rivercrest Rd San Marcos, CA 92078	21747 Amble Dr Escondido, CA 92029
1440 Rivercrest Rd San Marcos, CA 92078	2175 Citracado Pkwy Escondido, CA 92029
1440 W Mission Rd Escondido, CA 92029	2175 Coast Ave San Marcos, CA 92078
1441 Gwenn Dr Anchorage, AK 99515	2175 Silverado St San Marcos, CA 92078
1441 Misty Sea Way San Marcos, CA 92078	21755 Amble Dr Escondido, CA 92029
1441 River Crest Rd San Marcos, CA 92078	21767 Amble Dr Escondido, CA 92029
1441 Rivercrest Rd San Marcos, CA 92078	2177 Coast Ave San Marcos, CA 92078
1442 Rivercrest Rd San Marcos, CA 92078	2177 Silverado St San Marcos, CA 92078

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1446 River Crest Rd San Marcos, CA 92078	2179 Coast Ave San Marcos, CA 92078
1448 Rivercrest Rd San Marcos, CA 92078	2180 Chablis Ct Escondido, CA 92029
1449 Rainbow Ridge Ln Encinitas, CA 92024	2180 Silverado St San Marcos, CA 92078
1449 River Crest Rd San Marcos, CA 92078	2181 Coast Ave San Marcos, CA 92078
1449 Rivercrest Rd San Marcos, CA 92078	2181 Silverado St San Marcos, CA 92078
145 S Bent Ave San Marcos, CA 92078	2182 Silverado St San Marcos, CA 92078
1450 Rivercrest Rd San Marcos, CA 92078	21820 Gallop Way Escondido, CA 92029
1451 Rivercrest Rd San Marcos, CA 92078	21821 Gallop Way Escondido, CA 92029
1451 Valley View Rd Glendale, CA 91202	21829 Gallop Way Escondido, CA 92029
1452 Rivercrest Rd San Marcos, CA 92078	2183 Coast Ave San Marcos, CA 92078
1453 Rivercrest Rd San Marcos, CA 92078	2183 Silverado St San Marcos, CA 92078
1454 Rivercrest Rd San Marcos, CA 92078	21836 Gallop Way Escondido, CA 92029
1455 Rivercrest Rd San Marcos, CA 92078	2184 Silverado St San Marcos, CA 92078
1456 La Linda Dr San Marcos, CA 92078	21847 Gallop Way Escondido, CA 92029
1457 La Plaza Dr San Marcos, CA 92078	21848 Gallop Way Escondido, CA 92029
1458 Golden Sunset Dr San Marcos, CA 92078	2185 Citracado Pkwy Escondido, CA 92029
1459 Rivercrest Rd San Marcos, CA 92078	2185 Coast Ave San Marcos, CA 92078
1460 Mission Rd Escondido, CA 92029	2185 Silverado St San Marcos, CA 92078
1460 River Crest Rd San Marcos, CA 92078	2186 Coast Ave San Marcos, CA 92078
1460 Rivercrest Rd San Marcos, CA 92078	2186 Silverado St San Marcos, CA 92078
1460 W San Marcos Blvd San Marcos, CA 92078	21860 Gallop Way Escondido, CA 92029
14602 Old Creek Rd San Diego, CA 92131	2187 Coast Ave San Marcos, CA 92078
1461 Rivercrest Rd San Marcos, CA 92078	2187 Silverado St San Marcos, CA 92078
14754 Via Del Canon Del Mar, CA 92014	21872 Gallop Way Escondido, CA 92029
1477 La Habra Dr San Marcos, CA 92078	2188 Coast Ave San Marcos, CA 92078
1478 Misty Sea Way San Marcos, CA 92078	2189 Coast Ave San Marcos, CA 92078
14791 Daneway Dr Frisco, TX 75035	2190 Coast Ave San Marcos, CA 92078
148 N Highway 101 Encinitas, CA 92024	21905 Long Trot Dr Escondido, CA 92029
1480 W San Marcos Blvd San Marcos, CA 92078	2191 Coast Ave San Marcos, CA 92078
150 Basil St #B Encinitas, CA 92024	21910 Long Trot Dr Escondido, CA 92029
1508 Green Oak Rd Vista, CA 92081	21913 Long Trot Dr Escondido, CA 92029
1508 Mission Rd Escondido, CA 92029	21918 Long Trot Dr Escondido, CA 92029
1508 W Mission Rd Escondido, CA 92029	2192 Coast Ave San Marcos, CA 92078
1509 Brookside Ct San Marcos, CA 92078	2192 Palomar Airport Rd, 2nd Floor Carlsbad, CA 92008
1510 Brookside Ct San Marcos, CA 92078	2192 Silverado St San Marcos, CA 92078
15102 Skyridge Rd Poway, CA 92064	21920 Gallop Way Escondido, CA 92029
1511 Via Del Corvo San Marcos, CA 92078	21921 Long Trot Dr Escondido, CA 92029
1513 Grandon Ave San Marcos, CA 92078	21926 Long Trot Dr Escondido, CA 92029
1515 Brookside Ct San Marcos, CA 92078	21928 Gallop Way Escondido, CA 92029
1515 Grandon Ave San Marcos, CA 92078	21929 Long Trot Dr Escondido, CA 92029
1517 Brookside Ct San Marcos, CA 92078	2193 Coast Ave San Marcos, CA 92078
1517 Grandon Ave San Marcos, CA 92078	2193 Silverado St San Marcos, CA 92078
1518 Brookside Ct San Marcos, CA 92078	21937 Long Trot Dr Escondido, CA 92029
1518 Via Del Corvo San Marcos, CA 92078	2194 Coast Ave San Marcos, CA 92078
1519 Grandon Ave San Marcos, CA 92078	2194 Silverado St San Marcos, CA 92078
1521 Brookside Ct San Marcos, CA 92078	21945 Long Trot Dr Escondido, CA 92029
1521 Grandon Ave San Marcos, CA 92078	21946 Gallop Way Escondido, CA 92029
1521 Melody Ln Fullerton, CA 92831	2195 Citracado Pkwy Escondido, CA 92029
1523 Grandon Ave San Marcos, CA 92078	2195 Silverado St San Marcos, CA 92078
1523 San Elijo Rd S #206 San Marcos, CA 92078	21952 Gallop Way Escondido, CA 92029
1523 San Elijo Rd S #207 San Marcos, CA 92078	21953 Long Trot Dr Escondido, CA 92029
1523 San Elijo Rd S #208 San Marcos, CA 92078	2196 Coast Ave San Marcos, CA 92078
1523 San Elijo Rd S San Marcos, CA 92078	2196 Silverado St San Marcos, CA 92078

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1523 San Elijo Rd S, Ste. 206 San Marcos, CA 92078	21960 Long Trot Dr Escondido, CA 92029
1523 San Elijo Rd S, Ste. 207 San Marcos, CA 92078	21961 Long Trot Dr Escondido, CA 92029
1523 San Elijo Rd S, Ste. 208 San Marcos, CA 92078	21964 Gallop Way Escondido, CA 92029
1523 San Elijo Rd S, Ste. 209 San Marcos, CA 92078	21968 Long Trot Dr Escondido, CA 92029
1523 Via Del Corvo San Marcos, CA 92078	21969 Long Trot Dr Escondido, CA 92029
1524 Brookside Ct San Marcos, CA 92078	2197 Silverado St San Marcos, CA 92078
1525 Brookside Ct San Marcos, CA 92078	21976 Gallop Way Escondido, CA 92029
1525 Grandon Ave San Marcos, CA 92078	21977 Long Trot Dr Escondido, CA 92029
1527 Grandon Ave San Marcos, CA 92078	2198 Coast Ave San Marcos, CA 92078
1527 Kings Cross Dr Cardiff, CA 92007	2198 Silverado St San Marcos, CA 92078
1529 Brookside Ct San Marcos, CA 92078	21985 Long Trot Dr Escondido, CA 92029
1529 Grandon Ave San Marcos, CA 92078	2199 Silverado St San Marcos, CA 92078
1530 Brookside Ct San Marcos, CA 92078	21990 Long Trot Dr Escondido, CA 92029
1531 Copper Ct San Marcos, CA 92078	21993 Long Trot Dr Escondido, CA 92029
1531 Grandon Ave San Marcos, CA 92078	22 Groveside Dr Aliso Viejo, CA 92656
1533 Brookside Ct San Marcos, CA 92078	22 Vienne Irvine, CA 92606
1533 Copper Ct San Marcos, CA 92078	22004 Long Trot Dr Escondido, CA 92029
1534 Brookside Ct San Marcos, CA 92078	22005 Long Trot Dr Escondido, CA 92029
15345 Wyeport Rd Ramona, CA 92065	22013 Long Trot Dr Escondido, CA 92029
1535 Copper Ct San Marcos, CA 92078	22021 Long Trot Dr Escondido, CA 92029
1535 Via Del Corvo San Marcos, CA 92078	22028 Long Trot Dr Escondido, CA 92029
1536 Copper Ct San Marcos, CA 92078	22029 Long Trot Dr Escondido, CA 92029
15360 Barranca Pkwy Irvine, CA 92618	22037 Long Trot Dr Escondido, CA 92029
15373 Innovation Dr #300 San Diego, CA 92128	22044 Long Trot Dr Escondido, CA 92029
1538 Brighton Glen Rd San Marcos, CA 92078	22045 Long Trot Dr Escondido, CA 92029
1539 Copper Ct San Marcos, CA 92078	2207 Harmony Grove Rd Escondido, CA 92029
1540 Copper Ct San Marcos, CA 92078	2208 Harmony Grove Rd Escondido, CA 92029
1540 Gascony Rd Encinitas, CA 92024	2211 Encinitas Blvd Encinitas, CA 92024
1541 Rancho Santa Fe Rd San Marcos, CA 92078	222 Kearny St #600 San Francisco, CA 94108
1542 Copper Ct San Marcos, CA 92078	2222 Enterprise St Escondido, CA 92029
1542 Via Allondra San Marcos, CA 92078	22229 Long Trot Dr Escondido, CA 92029
1543 Copper Ct San Marcos, CA 92078	22241 Long Trot Dr Escondido, CA 92029
1544 Crescent Pl San Marcos, CA 92078	22253 Long Trot Dr Escondido, CA 92029
1546 Crescent Pl San Marcos, CA 92078	22265 Long Trot Dr Escondido, CA 92029
1547 Copper Ct San Marcos, CA 92078	2227 Enterprise St Escondido, CA 92029
1547 Crescent Pl San Marcos, CA 92078	2227 Paseo Saucedal Carlsbad, CA 92009
1548 Copper Ct San Marcos, CA 92078	2229 Enterprise St Escondido, CA 92029
1550 Black Walnut Dr San Marcos, CA 92078	2230 Enterprise St Escondido, CA 92029
1550 Copper Ct San Marcos, CA 92078	2235 Enterprise St Escondido, CA 92029
1550 Crescent Pl San Marcos, CA 92078	2237 Faraday Ave #100 Carlsbad, CA 92008
1550 Via Allondra San Marcos, CA 92078	2241 Lundy Lake Dr Escondido, CA 92029
1551 Crescent Pl San Marcos, CA 92078	2245 Enterprise St Escondido, CA 92029
1551 Via Del Corvo San Marcos, CA 92078	225 E 3rd Ave Escondido, CA 92025
1552 Copper Ct San Marcos, CA 92078	2280 Wardlow Cir #100 Corona, CA 92880
1553 Via Allondra San Marcos, CA 92078	2280 Wardlow Cir Corona, CA 92880
1554 Black Walnut Dr San Marcos, CA 92078	2300 Harveson Pl Escondido, CA 92029
1554 Copper Ct San Marcos, CA 92078	2310 Aldergrove Ave Escondido, CA 92029
1555 N Colonial Ter #400 Arlington, VA 22209	232 Sarah Ave Placentia, CA 92870
1556 Black Walnut Dr San Marcos, CA 92078	2320 Auto Park Way Escondido, CA 92029
1556 Camino Del Arroyo Dr San Marcos, CA 92078	2324 Auto Park Way Escondido, CA 92029
1556 Copper Ct San Marcos, CA 92078	2324 Harmony Grove Rd Escondido, CA 92029
1558 Black Walnut Dr San Marcos, CA 92078	2327 Harmony Grove Rd Escondido, CA 92029
1558 Copper Ct San Marcos, CA 92078	2328 Auto Park Way Escondido, CA 92029

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1560 Black Walnut Dr San Marcos, CA 92078	233 San Felipe Way Novato, CA 94945
1560 Eden Ct San Marcos, CA 92078	2332 Auto Park Way Escondido, CA 92029
1560 Via Del Corvo San Marcos, CA 92078	2336 Auto Park Way Escondido, CA 92029
1560 W Mission Rd Escondido, CA 92029	2337 Auto Park Way Escondido, CA 92029
1562 Black Walnut Dr San Marcos, CA 92078	2344 Auto Park Way Escondido, CA 92029
1562 Eden Ct San Marcos, CA 92078	2346 Harmony Grove Rd Escondido, CA 92029
1564 Black Walnut Dr San Marcos, CA 92078	2357 Auto Park Way Escondido, CA 92029
1564 Eden Ct San Marcos, CA 92078	2360 Lindbergh St Auburn, CA 95602
1566 Black Walnut Dr San Marcos, CA 92078	2361 Auto Park Way Escondido, CA 92029
1568 Black Walnut Dr San Marcos, CA 92078	2364 Auto Park Way Escondido, CA 92029
1568 Eden Ct San Marcos, CA 92078	2365 Gillingham Cir Thousand Oaks, CA 91362
1570 Black Walnut Dr San Marcos, CA 92078	2366 Auto Park Way Escondido, CA 92029
1570 Eden Ct San Marcos, CA 92078	2368 Auto Park Way Escondido, CA 92029
1571 San Elijo Rd San Marcos, CA 92078	2382 Harmony Grove Rd Escondido, CA 92029
1572 Black Walnut Dr San Marcos, CA 92078	2400 Harmony Grove Rd Escondido, CA 92029
1573 Eden Ct San Marcos, CA 92078	2400 Kauana Loa Dr Escondido, CA 92029
1574 Black Walnut Dr San Marcos, CA 92078	2402 Auto Park Way Escondido, CA 92029
1574 Mission Rd Escondido, CA 92029	2406 Auto Park Way Escondido, CA 92029
1576 Black Walnut Dr San Marcos, CA 92078	241 Market Pl Escondido, CA 92029
1576 Eden Ct San Marcos, CA 92078	2410 Auto Park Way Escondido, CA 92029
1577 Eden Ct San Marcos, CA 92078	2414 Auto Park Way Escondido, CA 92029
1578 Black Walnut Dr San Marcos, CA 92078	2415 Auto Park Way Escondido, CA 92029
1578 Eden Ct San Marcos, CA 92078	2418 Auto Park Way Escondido, CA 92029
1579 Eden Ct San Marcos, CA 92078	2420 Shelter Island Dr San Diego, CA 92106
1580 Eden Ct San Marcos, CA 92078	2425 Auto Park Way Escondido, CA 92029
1581 Eden Ct San Marcos, CA 92078	24291 Three Springs Rd Hemet, CA 92545
1582 W San Marcos Blvd San Marcos, CA 92078	24291 Threesprings Rd Hemet, CA 92545
1583 Eden Ct San Marcos, CA 92078	243 S Escondido Blvd #331 Escondido, CA 92025
1583 Rock Springs Rd San Marcos, CA 92069	2439 W Coast Hwy #200 Newport Beach, CA 92663
1586 W San Marcos Blvd San Marcos, CA 92078	2445 El Sereno Way Vista, CA 92083
1590 W San Marcos Blvd San Marcos, CA 92078	2486 San Clemente Ave Vista, CA 92084
15935 Spring Oaks Rd #1 Eljon, CA 92021	2490 Newcastle Ave Cardiff, CA 92007
1597 Dawson Dr Vista, CA 92081	250 E Parkcenter Blvd Boise, ID 83706
160 Industrial St #200 San Marcos, CA 92078	250 El Camino Real #210 Tustin, CA 92780
1600 Huntington Dr S Pasadena, CA 91030	250 Ximeno Ave Long Beach, CA 90803
1601 Via Cancion San Marcos, CA 92078	2505 Pesquera Dr Long Beach, CA 90049
16010 Camino Del Sur San Diego, CA 92127	2506 Market St San Diego, CA 92102
1602 Via Cancion San Marcos, CA 92078	2516 Luciernaga St Carlsbad, CA 92009
1605 Hunsaker St Oceanside, CA 92054	2525 Old Highway 395 Fallbrook, CA 92028
1608 Via Del Corvo San Marcos, CA 92078	2526 Plumfield Ln Katy, TX 77450
1611 Via Cancion San Marcos, CA 92078	2528 N Twin Oaks Valley Rd San Marcos, CA 92069
1614 Island Dr San Marcos, CA 92078	2529 Kauana Loa Dr Escondido, CA 92029
1618 Via Allondra San Marcos, CA 92078	2530 Kauana Loa Dr Escondido, CA 92029
16189 Cayenne Creek Pl San Diego, CA 92127	2553 Abedul St Carlsbad, CA 92009
1620 Via Cancion San Marcos, CA 92078	2557 Kauana Loa Dr Escondido, CA 92029
1620 W Mission Rd Escondido, CA 92029	25672 La Cima Laguna Niguel, CA 92677
1623 Calle Venado San Marcos, CA 92078	2573 Kauana Loa Dr Escondido, CA 92029
1623 Via Cancion San Marcos, CA 92078	260 Landis Ave Chula Vista, CA 91910
1624 Avery Rd San Marcos, CA 92078	2600 Citadel Plaza Dr #125 Houston, TX 77008
1625 Via Allondra San Marcos, CA 92078	2603 Kauana Loa Dr Escondido, CA 92029
1626 Avery Rd San Marcos, CA 92078	2605 Kauana Loa Dr Escondido, CA 92029
1626 Via Del Corvo San Marcos, CA 92078	2607 Kauana Loa Dr Escondido, CA 92029
1627 Via Allondra San Marcos, CA 92078	2610 Kauana Loa Dr Escondido, CA 92029

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1628 Avery Rd San Marcos, CA 92078	2623 Kauana Loa Dr Escondido, CA 92029
1629 Via Allondra San Marcos, CA 92078	2639 Kauana Loa Dr Escondido, CA 92029
1630 Avery Rd San Marcos, CA 92078	2640 Harmony Heights Rd Escondido, CA 92029
1630 Mission Rd Escondido, CA 92029	2643 Harmony Heights Rd Escondido, CA 92029
1632 Avery Rd San Marcos, CA 92078	2645 Kauana Loa Dr Escondido, CA 92029
1634 Avery Rd San Marcos, CA 92078	2653 Obelisco Pl Carlsbad, CA 92009
1635 Via Del Corvo San Marcos, CA 92078	2655 Kauana Loa Dr Escondido, CA 92029
1636 Avery Rd San Marcos, CA 92078	2657 Freshly Brewed Ct Henderson, NV 89052
1636 Via Allondra San Marcos, CA 92078	2658 Del Mar Heights Rd #267 Del Mar, CA 92014
1638 Avery Rd San Marcos, CA 92078	2664 Harmony Heights Rd Escondido, CA 92029
1640 Avery Rd San Marcos, CA 92078	2665 Harmony Heights Rd Escondido, CA 92029
1640 Via Cancion San Marcos, CA 92078	2668 Narcissus Dr San Diego, CA 92106
1641 Avery Rd San Marcos, CA 92078	2674 Kauana Loa Dr Escondido, CA 92029
1641 Sagewood Way San Marcos, CA 92078	2677 Kauana Loa Dr Escondido, CA 92029
1642 Avery Rd San Marcos, CA 92078	2703 El Rocko Rd Escondido, CA 92029
1642 W San Marcos Blvd San Marcos, CA 92078	271 Redwood Ave Carlsbad, CA 92008
1644 Avery Rd San Marcos, CA 92078	2710 El Rocko Rd Escondido, CA 92029
1644 Sagewood Way San Marcos, CA 92078	2711 El Rocko Rd Escondido, CA 92029
1645 Avery Rd San Marcos, CA 92078	2720 Old Spanish Trl Escondido, CA 92025
1645 Calle Venado San Marcos, CA 92078	27258 Via Industria #B Temecula, CA 92590
1645 Milan Way San Marcos, CA 92078	2738 Harmony Heights Rd Escondido, CA 92029
1646 Avery Rd San Marcos, CA 92078	27405 Puerta Real #120 Mission Viejo, CA 92691
16465 Via Esprillo #150 San Diego, CA 92127	27451 Los Altos #210 Mission Viejo, CA 92691
1647 Avery Rd San Marcos, CA 92078	2750 Harmony Heights Rd Escondido, CA 92029
1647 Milan Way San Marcos, CA 92078	2762 Harmony Heights Rd Escondido, CA 92029
1647 Sagewood Way San Marcos, CA 92078	27718 N Twin Oaks Valley Rd San Marcos, CA 92069
1648 Avery Rd San Marcos, CA 92078	2774 Harmony Heights Rd Escondido, CA 92029
1648 Ord Way Oceanside, CA 92056	2784 W 15th St Yuma AZ 85364
1648 Sagewood Way San Marcos, CA 92078	2790 Gateway Rd Carlsbad, CA 92009
1648 Via Allondra San Marcos, CA 92078	2800 E Lake St Minneapolis, MN 55406
1649 Milan Way San Marcos, CA 92078	2801 Side Saddle Ln Escondido, CA 92029
1649 Sagewood Way San Marcos, CA 92078	2802 Carlsbad Blvd Carlsbad, CA 92008
1650 Avery Rd San Marcos, CA 92078	2808 Dove Tail Dr San Marcos, CA 92078
1650 Sagewood Way San Marcos, CA 92078	2820 E Cove Ct Maineville, OH 45039
1650 W San Marcos Blvd San Marcos, CA 92078	2824 Piantino Cir San Diego, CA 92108
1651 Milan Way San Marcos, CA 92078	2826 Livery Pl Escondido, CA 92029
1651 Sagewood Way San Marcos, CA 92078	2827 Livery Pl Escondido, CA 92029
1652 Avery Rd San Marcos, CA 92078	2834 Livery Pl Escondido, CA 92029
1652 Portside Pl San Marcos, CA 92078	2839 Livery Pl Escondido, CA 92029
1652 Sagewood Way San Marcos, CA 92078	2846 Livery Pl Escondido, CA 92029
1652 Via Cancion San Marcos, CA 92078	2850 Livery Pl Escondido, CA 92029
1653 Milan Way San Marcos, CA 92078	2851 Livery Pl Escondido, CA 92029
1653 Sagewood Way San Marcos, CA 92078	2858 Carlsbad Blvd Carlsbad, CA 92008
1654 Avery Rd San Marcos, CA 92078	2861 Womble Rd San Diego, CA 92106
1654 Sagewood Way San Marcos, CA 92078	2872 Livery Pl Escondido, CA 92029
1654 Via Del Corvo San Marcos, CA 92078	2873 Livery Pl Escondido, CA 92029
1655 Milan Way San Marcos, CA 92078	2880 Livery Pl Escondido, CA 92029
1655 Sagewood Way San Marcos, CA 92078	2890 Dartmouth Dr Oceanside, CA 92056
1655 Via Del Corvo San Marcos, CA 92078	2891 Livery Pl Escondido, CA 92029
1656 Avery Rd San Marcos, CA 92078	2892 Livery Pl Escondido, CA 92029
1656 Sagewood Way San Marcos, CA 92078	29413 Painted Desert Dr Menifee, CA 92584
1657 Milan Way San Marcos, CA 92078	2960 Sunset Hls Escondido, CA 92025
1657 Sagewood Way San Marcos, CA 92078	2968 Stable Pl Escondido, CA 92029

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1658 Avery Rd San Marcos, CA 92078	2976 Stable Pl Escondido, CA 92029
1658 Sagewood Way San Marcos, CA 92078	298 Enterprise St Escondido, CA 92029
1659 Sagewood Way San Marcos, CA 92078	2982 Stable Pl Escondido, CA 92029
1660 Avery Rd San Marcos, CA 92078	2984 Hayloft Pl Escondido, CA 92029
1660 Sagewood Way San Marcos, CA 92078	2990 Hayloft Pl Escondido, CA 92029
1660 Trenton Way San Marcos, CA 92078	2990 Stable Pl Escondido, CA 92029
1661 Avery Rd San Marcos, CA 92078	2991 Hayloft Pl Escondido, CA 92029
1661 Sagewood Way San Marcos, CA 92078	3 Park Plaza #1700 Irvine, CA 92614
1661 Via Allondra San Marcos, CA 92078	3001 Red Hill Ave #B1-106 Costa Mesa, CA 92626
1661 Via Cancion San Marcos, CA 92078	301 Enterprise St Escondido, CA 92029
1662 Avery Rd San Marcos, CA 92078	301 Enterprise St, Ste. 01 Escondido, CA 92029
1662 Sagewood Way San Marcos, CA 92078	301 Enterprise St, Ste. 03 Escondido, CA 92029
1663 Avery Rd San Marcos, CA 92078	3010 Heirloom Pl Escondido, CA 92029
1663 Trenton Way San Marcos, CA 92078	3023 Mt Whitney Rd Escondido, CA 92029
1664 Avery Rd San Marcos, CA 92078	30333 Via Cuesta Arriba Bonsall, CA 92003
1664 Sagewood Way San Marcos, CA 92078	305 Enterprise St, Ste. 01 Escondido, CA 92029
1664 Trenton Way San Marcos, CA 92078	305 Enterprise St, Ste. 02 Escondido, CA 92029
16640 Dale Hollow Ct Morgan Hill, CA 95037	3050 Paseo Estribo Carlsbad, CA 92009
1665 Avery Rd San Marcos, CA 92078	3052 Heirloom Pl Escondido, CA 92029
1667 Avery Rd San Marcos, CA 92078	3054 Maplewood Pl Escondido, CA 92027
1668 Avery Rd San Marcos, CA 92078	3056 Heirloom Pl Escondido, CA 92029
1668 Sagewood Way San Marcos, CA 92078	3060 Heirloom Pl Escondido, CA 92029
1668 Trenton Way San Marcos, CA 92078	3064 Eden Valley Ln Escondido, CA 92029
1668 Via Del Corvo San Marcos, CA 92078	3064 Heirloom Pl Escondido, CA 92029
1669 Avery Rd San Marcos, CA 92078	3068 Heirloom Pl Escondido, CA 92029
1670 Avery Rd San Marcos, CA 92078	3072 Heirloom Pl Escondido, CA 92029
1670 Reflection St San Marcos, CA 92078	3076 Heirloom Pl Escondido, CA 92029
1670 Sagewood Way San Marcos, CA 92078	3080 Heirloom Pl Escondido, CA 92029
1671 Avery Rd San Marcos, CA 92078	3081 Heirloom Pl Escondido, CA 92029
1671 Trenton Way San Marcos, CA 92078	309 Enterprise St, Ste. 01 Escondido, CA 92029
1671 Via Del Corvo San Marcos, CA 92078	309 Enterprise St, Ste. 02 Escondido, CA 92029
1672 Avery Rd San Marcos, CA 92078	3090 Heirloom Pl Escondido, CA 92029
1672 Sagewood Way San Marcos, CA 92078	3090 Mimulus Pl Escondido, CA 92029
1672 Trenton Way San Marcos, CA 92078	3096 Heirloom Pl Escondido, CA 92029
1673 Avery Rd San Marcos, CA 92078	310 S Twin Oaks Valley Rd #107-183 San Marcos, CA 92078
1674 Avery Rd San Marcos, CA 92078	3100 Donald Douglas Loop N Santa Monica, CA 90405
1674 Sagewood Way San Marcos, CA 92078	311 Enterprise St #1 Escondido, CA 92029
1674 Via Del Corvo San Marcos, CA 92078	311 Enterprise St Escondido, CA 92029
1675 Avery Rd San Marcos, CA 92078	311 Enterprise St, Ste. 01 Escondido, CA 92029
1675 Trenton Way San Marcos, CA 92078	311 Enterprise St, Ste. 02 Escondido, CA 92029
1676 Avery Rd San Marcos, CA 92078	312 Borden Rd San Marcos, CA 92069
1676 Trenton Way San Marcos, CA 92078	31231 Via Mariposa Ct Bonsall, CA 92003
1677 Avery Rd San Marcos, CA 92078	3139 Mt Whitney Rd Escondido, CA 92029
1677 Sandyrock Ln San Jose, CA 95125	315 S Coast Highway 101 #U12 Encinitas, CA 92024
1678 Avery Rd San Marcos, CA 92078	315 S Coast Hwy #U78 Encinitas, CA 92024
1678 Country Club Dr Escondido, CA 92029	315 S Coast Hwy 101 #U12 Encinitas, CA 92024
1678 Sagewood Way San Marcos, CA 92078	3151 Mt Whitney Rd Escondido, CA 92029
1679 Avery Rd San Marcos, CA 92078	3177 Wildflower Smt Encinitas, CA 92024
1679 Trenton Way San Marcos, CA 92078	3209 Lionshead Ave Carlsbad, CA 92010
1680 Avery Rd San Marcos, CA 92078	321 Milk Barn Ln Cookeville Tn 38506
1680 Sagewood Way San Marcos, CA 92078	3210 Grey Hawk Ct Carlsbad, CA 92010
1680 Trenton Way San Marcos, CA 92078	3211 Business Park Dr Vista, CA 92081
1681 Avery Rd San Marcos, CA 92078	3211 Mt Whitney Rd Escondido, CA 92029

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1682 Avery Rd San Marcos, CA 92078	3214 Grey Hawk Ct Carlsbad, CA 92010
1682 Sagewood Way San Marcos, CA 92078	3216 Grey Hawk Ct Carlsbad, CA 92010
1683 Avery Rd San Marcos, CA 92078	322 Encinitas Blvd #200 Encinitas, CA 92024
1683 Trenton Way San Marcos, CA 92078	3220 Grey Hawk Ct Carlsbad, CA 92010
1684 Avery Rd San Marcos, CA 92078	3222 Grey Hawk Ct Carlsbad, CA 92010
1684 Sagewood Way San Marcos, CA 92078	3223 Mt Whitney Rd Escondido, CA 92029
1684 Trenton Way San Marcos, CA 92078	3225 Business Park Dr Vista, CA 92081
1685 Avery Rd San Marcos, CA 92078	3226 Grey Hawk Ct Carlsbad, CA 92010
1686 Avery Rd San Marcos, CA 92078	3228 Grey Hawk Ct Carlsbad, CA 92010
1686 Sagewood Way San Marcos, CA 92078	3231 Business Park Dr Vista, CA 92081
1687 Avery Rd San Marcos, CA 92078	3232 Grey Hawk Ct Carlsbad, CA 92010
1687 Sagewood Way San Marcos, CA 92078	3234 Grey Hawk Ct Carlsbad, CA 92010
1687 Trenton Way San Marcos, CA 92078	3238 Grey Hawk Ct Carlsbad, CA 92010
16878 Quail Xing Ramona, CA 92065	3240 Grey Hawk Ct Carlsbad, CA 92010
1688 Avery Rd San Marcos, CA 92078	3244 Grey Hawk Ct Carlsbad, CA 92010
1688 Trenton Way San Marcos, CA 92078	3246 Grey Hawk Ct Carlsbad, CA 92010
1689 Avery Rd San Marcos, CA 92078	3250 Business Park Dr Vista, CA 92081
1689 Via Allondra San Marcos, CA 92078	3250 Grey Hawk Ct Carlsbad, CA 92010
1690 Avery Rd San Marcos, CA 92078	3251 Business Park Dr Vista, CA 92081
1690 Sagewood Way San Marcos, CA 92078	3254 Grey Hawk Ct Carlsbad, CA 92010
1691 Avery Rd San Marcos, CA 92078	3256 Grey Hawk Ct Carlsbad, CA 92010
1691 Sagewood Way San Marcos, CA 92078	3258 Grey Hawk Ct Carlsbad, CA 92010
1691 Trenton Way San Marcos, CA 92078	3262 Grey Hawk Ct Carlsbad, CA 92010
1692 Avery Rd San Marcos, CA 92078	3264 Grey Hawk Ct Carlsbad, CA 92010
1692 Trenton Way San Marcos, CA 92078	3265 Business Park Dr Vista, CA 92081
1693 Avery Rd San Marcos, CA 92078	3266 Grey Hawk Ct Carlsbad, CA 92010
1694 Avery Rd San Marcos, CA 92078	3267 Purer Rd Escondido, CA 92029
1694 Sagewood Way San Marcos, CA 92078	3270 Corporate View Dr Vista, CA 92081
16945 Camino San Bernardo San Diego, CA 92127	3270 Grey Hawk Ct Carlsbad, CA 92010
1695 Avery Rd San Marcos, CA 92078	3270 Westwood Dr Carlsbad, CA 92008
1695 Sagewood Way San Marcos, CA 92078	3271 Business Park Dr Vista, CA 92081
1695 Trenton Way San Marcos, CA 92078	3272 Grey Hawk Ct Carlsbad, CA 92010
1696 Avery Rd San Marcos, CA 92078	3274 Grey Hawk Ct Carlsbad, CA 92010
1696 Trenton Way San Marcos, CA 92078	3275 Corporate Vw Vista, CA 92081
1698 Sagewood Way San Marcos, CA 92078	3278 Grey Hawk Ct Carlsbad, CA 92010
1699 Trenton Way San Marcos, CA 92078	3280 Corporate Vw Vista, CA 92081
1700 Weatherwood Ct San Marcos, CA 92078	3280 Grey Hawk Ct Carlsbad, CA 92010
1701 Playa Vista San Marcos, CA 92078	3281 Business Park Dr Vista, CA 92081
1701 Weatherwood Ct Encinitas, CA 92024	3282 Grey Hawk Ct #14 Carlsbad, CA 92010
1701 Weatherwood Ct San Marcos, CA 92078	3282 Grey Hawk Ct Carlsbad, CA 92010
1702 Playa Vista San Marcos, CA 92078	3284 Grey Hawk Ct Carlsbad, CA 92010
1702 Weatherwood Ct San Marcos, CA 92078	3285 Corporate Vw Vista, CA 92081
1703 Azul Vista San Marcos, CA 92078	3288 Grey Hawk Ct Carlsbad, CA 92010
1704 Azul Vista San Marcos, CA 92078	3295 Business Park Dr Vista, CA 92081
1704 Gascony Rd Encinitas, CA 92024	330 Encinitas Blvd #201 Encinitas, CA 92024
1704 Weatherwood Ct San Marcos, CA 92078	3309 Rancho Famosa Carlsbad, CA 92009
1705 Cuadro Vis San Marcos, CA 92078	3310 Rancho Famosa Carlsbad, CA 92009
1705 San Elijo Rd S San Marcos, CA 92078	3313 Rancho Famosa Carlsbad, CA 92009
1705 Thorley Way San Marcos, CA 92078	3314 Rancho Famosa Carlsbad, CA 92009
1705 Weatherwood Ct San Marcos, CA 92078	3315 Rancho Carrizo Carlsbad, CA 92009
1706 Weatherwood Ct San Marcos, CA 92078	3316 Rancho Carrizo Carlsbad, CA 92009
1707 Thorley Way San Marcos, CA 92078	3317 Rancho Famosa Carlsbad, CA 92009
1707 Weatherwood Ct San Marcos, CA 92078	3318 Rancho Famosa Carlsbad, CA 92009

600' NOTIFICATION LIST

1708 Beamreach Pl Fort Collins Co 80524	3320 Rancho Carrizo Carlsbad, CA 92009
1708 Birchwood Dr San Marcos, CA 92069	33206 Ocean Bright Dana Point, CA 92629
1708 Kenwood Pl San Marcos, CA 92078	3321 Rancho Famosa Carlsbad, CA 92009
1708 Weatherwood Ct San Marcos, CA 92078	3322 Rancho Famosa Carlsbad, CA 92009
1709 Playa Vista San Marcos, CA 92078	3324 Rancho Carrizo Carlsbad, CA 92009
1709 Thorley Way San Marcos, CA 92078	3325 Rancho Famosa Carlsbad, CA 92009
1709 Weatherwood Ct San Marcos, CA 92078	3326 Rancho Famosa Carlsbad, CA 92009
1710 Elfin Forest Rd San Marcos, CA 92078	3328 Rancho Carrizo Carlsbad, CA 92009
1710 Kenwood Pl San Marcos, CA 92078	3329 Rancho Famosa Carlsbad, CA 92009
1710 Playa Vista San Marcos, CA 92078	3330 Rancho Famosa Carlsbad, CA 92009
1710 San Elijo Rd San Marcos, CA 92078	3334 Rancho Famosa Carlsbad, CA 92009
1710 Via Allondra San Marcos, CA 92078	3338 Rancho Famosa Carlsbad, CA 92009
1710 Weatherwood Ct San Marcos, CA 92078	335 Hemlock Ave Carlsbad, CA 92008
1711 Azul Vista San Marcos, CA 92078	3363 Wildflower Valley Dr Encinitas, CA 92024
1712 Azul Vista San Marcos, CA 92078	3416a Calif Ave Sw #107 Seattle Wa 98116
1712 Country Club Dr Escondido, CA 92029	3437 Don Arturo Dr Carlsbad, CA 92010
1712 Weatherwood Ct San Marcos, CA 92078	345 Kentfield Dr San Marcos, CA 92069
1713 Cuadro Vista San Marcos, CA 92078	3455 Stadium Pl San Diego, CA 92122
1713 Kenwood Pl San Marcos, CA 92078	3458 Mission Mesa Way San Diego, CA 92120
1713 Thorley Way San Marcos, CA 92078	3462 Ryan Dr Escondido, CA 92025
1714 Kenwood Pl San Marcos, CA 92078	3487 Milagros St San Diego, CA 92123
1714 Thorley Way San Marcos, CA 92078	3502 Sitio Espino Carlsbad, CA 92009
1714 Weatherwood Ct San Marcos, CA 92078	352 Anns Way Vista, CA 92083
1715 Kenwood Pl San Marcos, CA 92078	352 Compass Rd Oceanside, CA 92054
1715 Thorley Way San Marcos, CA 92078	3619 Claremont Dr Bakersfield, CA 93306
17150 Via Del Campo #101 San Diego, CA 92127	36429 Gambrel Gate Ct Winchester, CA 92596
1716 Kenwood Pl San Marcos, CA 92078	366 Edgewater Dr San Marcos, CA 92078
1716 Thorley Way San Marcos, CA 92078	3690 Hermitage Trl Rockford, IL 61114
1716 Weatherwood Ct San Marcos, CA 92078	3700 Spring St Paso Robles, CA 93446
1717 Brighton Hill Ct San Marcos, CA 92078	376 Trousdale Dr Chula Vista, CA 91910
1717 Kenwood Pl San Marcos, CA 92078	3800 W Wilson St #357 Banning, CA 92220
1717 Playa Vista San Marcos, CA 92078	3806 Mandy Way San Ramon, CA 94582
1717 Thorley Way San Marcos, CA 92078	3838 Camino Del Rio N #300 San Diego, CA 92108
1718 Kenwood Pl San Marcos, CA 92078	3888 Paducah Dr San Diego, CA 92117
1718 Playa Vista San Marcos, CA 92078	3890 Nobel Dr #1801 San Diego, CA 92122
1718 Thorley Way San Marcos, CA 92078	3917 Lago Di Grata Cir San Diego, CA 92130
1718 Weatherwood Ct San Marcos, CA 92078	3948 Stonebridge Ln Rancho Santa Fe, CA 92091
1719 Azul Vista San Marcos, CA 92078	3994 W Lehman Rd Tracy, CA 95304
1719 Thorley Way San Marcos, CA 92078	401 Bridoon Ter Encinitas, CA 92024
1720 Azul Vista San Marcos, CA 92078	401 N Sacramento St Orange, CA 92867
1720 Brighton Hill Ct San Marcos, CA 92078	4018 Lanark Ln Houston, TX 77025
1720 Thorley Way San Marcos, CA 92078	402 Wilshire Rd Oceanside, CA 92057
1720 Weatherwood Ct San Marcos, CA 92078	405 Avalon Dr Vista, CA 92084
1721 Cuadro Vis San Marcos, CA 92078	40643 Calle Katerine Temecula, CA 92591
1721 Kenwood Pl San Marcos, CA 92078	407 Pacific Ave Solana Beach, CA 92075
1721 Thorley Way San Marcos, CA 92078	4072 Garfield St Carlsbad, CA 92008
1722 Kenwood Pl San Marcos, CA 92078	41 San Marcos Ct Salinas, CA 93901
1722 Thorley Way San Marcos, CA 92078	411 Santa Marina Ct Escondido, CA 92029
1722 Weatherwood Ct San Marcos, CA 92078	4125 W Hood Ave #103 Burbank, CA 91505
1723 Thorley Way San Marcos, CA 92078	4132 Mentone Ave Culver City, CA 90232
1724 Kenwood Pl San Marcos, CA 92078	4136 Raya Way San Diego, CA 92122
1724 Thorley Way San Marcos, CA 92078	41707 Grand View Dr Murrieta, CA 92562
1724 Weatherwood Ct San Marcos, CA 92078	41729 Via Aregio Palm Desert, CA 92260

600' NOTIFICATION LIST

1725 Birchwood Dr San Marcos, CA 92069	41785 Enterprise Cir S Temecula, CA 92590
1725 Kenwood Pl San Marcos, CA 92078	41805 Albrae St Fremont, CA 94538
1725 Mission Rd Escondido, CA 92029	421 Venture St Escondido, CA 92029
1725 Playa Vista San Marcos, CA 92078	4247 Rancho Asoleado Dr Santa Barbara, CA 93110
1726 Cuadro Vista San Marcos, CA 92078	42574 Camelot Rd Temecula, CA 92592
1726 Elfin Forest Rd San Marcos, CA 92078	427 Venture St Escondido, CA 92029
1726 Mission Rd Escondido, CA 92029	427 Yankee Dr Brewster, MA 02631
1726 Playa Vista San Marcos, CA 92078	4312 Nw 120th Ave Coral Springs, Fl 33065
1726 Thorley Way San Marcos, CA 92078	435 Venture St Escondido, CA 92029
1726 W Mission Rd Escondido, CA 92029	4410 Longshore Way San Diego, CA 92130
1726 Weatherwood Ct San Marcos, CA 92078	443 Venture St Escondido, CA 92029
1727 Azul Vista San Marcos, CA 92078	446 Enterprise St Escondido, CA 92029
1727 Kenwood Pl San Marcos, CA 92078	4490 Philbrook Sq San Diego, CA 92130
1728 Azul Vista San Marcos, CA 92078	450 W Vista Way Vista, CA 92083
1728 Kenwood Pl San Marcos, CA 92078	454 Enterprise St Escondido, CA 92029
1728 Mission Rd Escondido, CA 92029	4554 Cape Cod Cir Carlsbad, CA 92010
1728 Thorley Way San Marcos, CA 92078	459 Lexington Cir Oceanside, CA 92057
1728 Via Allondra San Marcos, CA 92078	4593 Monroe Ave San Diego, CA 92115
1728 Weatherwood Ct San Marcos, CA 92078	4636 Via Huerto Santa Barbara, CA 93110
1729 Cuadro Vista San Marcos, CA 92078	4705 Paseo De Las Tortugas Torrance, CA 90505
17295 Prado Rd San Diego, CA 92128	4850 Monongahela St San Diego, CA 92117
1730 Kenwood Pl San Marcos, CA 92078	49 Discovery #250 Irvine, CA 92618
1730 Mission Rd Escondido, CA 92029	5 Chickadee Ln Aliso Viejo, CA 92656
1730 Thorley Way San Marcos, CA 92078	501 E El Camino Real #200 Encinitas, CA 92024
1730 Weatherwood Ct San Marcos, CA 92078	511 Bellagio Ter Long Beach, CA 90049
1731 Cuadro Vista San Marcos, CA 92078	511 Venture St Escondido, CA 92029
1731 Thorley Way San Marcos, CA 92078	511 Whalen Way Oxnard, CA 93036
1732 Kenwood Pl San Marcos, CA 92078	5112 Mintz Ln Ellicott City Md 21043
1732 Morgans Ave San Marcos, CA 92078	515 Camino De Orchidia Encinitas, CA 92024
1732 Weatherwood Ct San Marcos, CA 92078	519 Venture St Escondido, CA 92029
17327 Via Campo San Diego, CA 92127	523 Avenida Verde San Marcos, CA 92069
1733 Brighton Hill Ct San Marcos, CA 92078	527 Venture St Escondido, CA 92029
1733 Playa Vista San Marcos, CA 92078	5294 Foxhound Way San Diego, CA 92130
1733 Thorley Way San Marcos, CA 92078	5330 Carroll Canyon Rd #200 San Diego, CA 92121
1734 Cuadro Vista San Marcos, CA 92078	5370 Toscana Way #H219 San Diego, CA 92122
1734 Kenwood Pl San Marcos, CA 92078	540 Enterprise St Escondido, CA 92029
1734 Morgans Ave San Marcos, CA 92078	5402 W Electra Ln Glendale, AZ 85310
1734 Thorley Way San Marcos, CA 92078	555 Enterprise St Escondido, CA 92029
1735 Thorley Way San Marcos, CA 92078	555 W Beech St San Diego, CA 92101
1735 Via Allondra San Marcos, CA 92078	563 Enterprise St Escondido, CA 92029
1736 Azul Vista San Marcos, CA 92078	5650 E River Rd Grand Island, NY 14072
1736 Kenwood Pl San Marcos, CA 92078	571 Enterprise St Escondido, CA 92029
1736 Morgans Ave San Marcos, CA 92078	5750 Fleet St Carlsbad, CA 92008
1736 Thorley Way San Marcos, CA 92078	578 Enterprise St Escondido, CA 92029
1737 Tara Way San Marcos, CA 92078	579 Enterprise St Escondido, CA 92029
1737 Thorley Way San Marcos, CA 92078	5790 Fleet St #140 Carlsbad, CA 92008
1738 Morgans Ave San Marcos, CA 92078	5820 Oberlin Dr #201 San Diego, CA 92121
1738 Thorley Way San Marcos, CA 92078	591 Camino De La Reina #616 San Diego, CA 92108
1738 W Mission Rd Escondido, CA 92029	5918 Stoneridge Mall Rd Pleasanton, CA 94588
1740 Kenwood Pl San Marcos, CA 92078	5940 Darwin Ct Carlsbad, CA 92008
1740 Morgans Ave San Marcos, CA 92078	5950 El Camino Real Carlsbad, CA 92008
1740 Thorley Way San Marcos, CA 92078	5984 Shaw Lopez Row San Diego, CA 92121
1741 Playa Vista San Marcos, CA 92078	600 California St #900 San Francisco, CA 94108

600' NOTIFICATION LIST

1741 Tara Way San Marcos, CA 92078	6004 Rancho Bravado Carlsbad, CA 92009
1742 Cuadro Vista San Marcos, CA 92078	6008 Rancho Bravado Carlsbad, CA 92009
1742 Hermosita Dr San Marcos, CA 92078	6011 Mission Gorge Rd San Diego, CA 92120
1742 Kenwood Pl San Marcos, CA 92078	6011 Villa Medici Bonsall, CA 92003
1742 Morgans Ave San Marcos, CA 92078	605 Venture St Escondido, CA 92029
1742 Old Glen St San Marcos, CA 92078	609 Canyon Greens Dr Las Vegas, NV 89144
1743 Cuadro Vista San Marcos, CA 92078	610 Alpine Way Escondido, CA 92029
1744 Kenwood Pl San Marcos, CA 92078	6118 Paseo Delicias; P O Box 1651 Rancho Santa Fe, CA 92067
1744 Morgans Ave San Marcos, CA 92078	6118 Rancho Brida Carlsbad, CA 92009
1744 Old Glen St San Marcos, CA 92078	613 Navigator Ct Carlsbad, CA 92011
1745 Tara Way San Marcos, CA 92078	615 Venture St Escondido, CA 92029
1746 Morgans Ave San Marcos, CA 92078	6183 Paseo Del Norte #160 Carlsbad, CA 92011
1746 Tara Way San Marcos, CA 92078	6186 College Ave San Diego, CA 92120
1746 Thorley Way San Marcos, CA 92078	620 Alpine Way Escondido, CA 92029
1748 Kenwood Pl San Marcos, CA 92078	6208 Sidney Ln Mckinney, TX 75070
1748 Morgans Ave San Marcos, CA 92078	622 Aero Way Escondido, CA 92029
1748 Old Glen St San Marcos, CA 92078	6228 Cottonwood St Mc Lean, VA 22101
1749 Playa Vista San Marcos, CA 92078	625 Venture St Escondido, CA 92029
1749 Tara Way San Marcos, CA 92078	6256 Sunrose Crest Way San Diego, CA 92130
1750 Cuadro Vista San Marcos, CA 92078	626 E State St #1903 Milwaukee, WI 53202
1750 Kenwood Pl San Marcos, CA 92078	628 Woodland Pkwy San Marcos, CA 92069
1750 Morgans Ave San Marcos, CA 92078	629 Alpine Way Escondido, CA 92029
1750 Old Glen St San Marcos, CA 92078	630 Alpine Way Escondido, CA 92029
1750 San Pablo Dr San Marcos, CA 92078	630 Enterprise St Escondido, CA 92029
1750 Tara Way San Marcos, CA 92078	6300 Wilshire Blvd #1800 Long Beach, CA 90048
1751 Cuadro Vista San Marcos, CA 92078	631 Enterprise St Escondido, CA 92029
1751 Via Allondra San Marcos, CA 92078	6310 Alamo Ave St Louis Mo 63105
1752 Kenwood Pl San Marcos, CA 92078	632 Aero Way Escondido, CA 92029
1752 Morgans Ave San Marcos, CA 92078	6339 W Sweetwater Ave Glendale, AZ 85304
1752 Old Glen St San Marcos, CA 92078	635 Venture St Escondido, CA 92029
1752 Via Allondra San Marcos, CA 92078	637 S Rancho Santa Fe Rd San Marcos, CA 92078
1753 Tara Way San Marcos, CA 92078	6373 Paseo Aspada Carlsbad, CA 92009
1754 Kenwood Pl San Marcos, CA 92078	6375 Paseo Potrero Carlsbad, CA 92009
1754 Morgans Ave San Marcos, CA 92078	6389 Quail Run St San Diego, CA 92130
1754 Old Glen St San Marcos, CA 92078	640 Alpine Way Escondido, CA 92029
1754 Tara Way San Marcos, CA 92078	641 Ingleside Pl Escondido, CA 92026
1756 Burbury Way San Marcos, CA 92078	6429 Cayenne Ln Carlsbad, CA 92009
1756 Morgans Ave San Marcos, CA 92078	644 Hartford St Chula Vista, CA 91913
1756 Old Glen St San Marcos, CA 92078	645 Catalina Rd Fullerton, CA 92835
1757 Playa Vista San Marcos, CA 92078	645 Rancho Santa Fe Rd San Marcos, CA 92078
1757 Tara Way San Marcos, CA 92078	646 Liquid Amber Way San Marcos, CA 92078
1758 Cuadro Vista San Marcos, CA 92078	646 Terrace Dr Grand Junction, Oo 81507
1758 Don Lee Pl Escondido, CA 92029	647 Hymettus Ave Encinitas, CA 92024
1758 Kenwood Pl San Marcos, CA 92078	647 Liquid Amber Way San Marcos, CA 92078
1758 Morgans Ave San Marcos, CA 92078	649 Alpine Way Escondido, CA 92029
1758 Old Glen St San Marcos, CA 92078	650 Alpine Way Escondido, CA 92029
1758 Tara Way San Marcos, CA 92078	650 Liquid Amber Way San Marcos, CA 92078
1759 Cuadro Vista San Marcos, CA 92078	650 S Ranch Fe Rd San Marcos, CA 92069
1760 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #1 San Marcos, CA 92078
1760 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #101 San Marcos, CA 92078
1761 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #102 San Marcos, CA 92078
1761 Willowhaven Rd Encinitas, CA 92024	650 S Rancho Santa Fe Rd #106 San Marcos, CA 92078
1762 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #109 San Marcos, CA 92078

600' NOTIFICATION LIST

1762 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #113 San Marcos, CA 92078
1762 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #116 San Marcos, CA 92078
1764 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #117 San Marcos, CA 92078
1764 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #121 San Marcos, CA 92078
1765 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #125 San Marcos, CA 92078
1765 Playa Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd #126 San Marcos, CA 92078
1765 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #130 San Marcos, CA 92078
1766 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #133 San Marcos, CA 92078
1767 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #147 San Marcos, CA 92078
1768 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #152 San Marcos, CA 92078
1768 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #157 San Marcos, CA 92078
1769 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #164 San Marcos, CA 92078
1769 Via Allondra San Marcos, CA 92078	650 S Rancho Santa Fe Rd #168 San Marcos, CA 92078
1770 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #178 San Marcos, CA 92078
1770 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #182 San Marcos, CA 92078
1770 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #192 San Marcos, CA 92078
1771 Grain Mill Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #195 San Marcos, CA 92078
1771 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #198 San Marcos, CA 92078
1772 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #203 San Marcos, CA 92078
1772 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #207 San Marcos, CA 92078
1773 Grain Mill Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #221 San Marcos, CA 92078
1773 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #225 San Marcos, CA 92078
1773 Playa Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd #226 San Marcos, CA 92078
1773 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #230 San Marcos, CA 92078
1774 Grain Mill Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #237 San Marcos, CA 92078
1774 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #238 San Marcos, CA 92078
1774 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #239 San Marcos, CA 92078
1774 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #24 San Marcos, CA 92078
1775 Grain Mill Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #244 San Marcos, CA 92078
1776 Country Club Dr Escondido, CA 92029	650 S Rancho Santa Fe Rd #249 San Marcos, CA 92078
1776 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #25 San Marcos, CA 92078
1777 Grain Mill Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #256 San Marcos, CA 92078
1777 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #257 San Marcos, CA 92078
17778 Plaza Acosta San Diego, CA 92128	650 S Rancho Santa Fe Rd #264 San Marcos, CA 92078
1778 Grain Mill Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #27 San Marcos, CA 92078
1778 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #276 San Marcos, CA 92078
1778 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #278 San Marcos, CA 92078
1778 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #289 San Marcos, CA 92078
1780 Grain Mill Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #296 San Marcos, CA 92078
1780 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #3 San Marcos, CA 92078
1780 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #306 San Marcos, CA 92078
1781 Grain Mill Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #318 San Marcos, CA 92078
1781 Playa Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd #324 San Marcos, CA 92078
1781 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #327 San Marcos, CA 92078
1782 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #33 San Marcos, CA 92078
1782 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #335 San Marcos, CA 92078
1782 Tara Way San Marcos, CA 92078	650 S Rancho Santa Fe Rd #337 San Marcos, CA 92078
1784 Grain Mill Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #338 San Marcos, CA 92078
1784 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #339 San Marcos, CA 92078
1784 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #34 San Marcos, CA 92078
1785 Grain Mill Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #341 San Marcos, CA 92078
1786 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #344 San Marcos, CA 92078
1787 Swallowtail Rd Encinitas, CA 92024	650 S Rancho Santa Fe Rd #35 San Marcos, CA 92078

600' NOTIFICATION LIST

1788 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #350 San Marcos, CA 92078
1788 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #351 San Marcos, CA 92078
1789 Playa Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd #353 San Marcos, CA 92078
179 Calle Magdalena #201 Encinitas, CA 92024	650 S Rancho Santa Fe Rd #354 San Marcos, CA 92078
1790 Morgans Ave San Marcos, CA 92078	650 S Rancho Santa Fe Rd #355 San Marcos, CA 92078
1790 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #358 San Marcos, CA 92078
1791 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #359 San Marcos, CA 92078
1792 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #361 San Marcos, CA 92078
1793 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #366 San Marcos, CA 92078
1794 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #367 San Marcos, CA 92078
1795 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #368 San Marcos, CA 92078
1797 Old Glen St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #370 San Marcos, CA 92078
1797 Playa Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd #371 San Marcos, CA 92078
18 Glenhaven Ln Irvine, CA 92620	650 S Rancho Santa Fe Rd #38 San Marcos, CA 92078
18 San Patricio Rancho Santa Margarita, CA 92688	650 S Rancho Santa Fe Rd #43 San Marcos, CA 92078
1801 Diamond St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #45 San Marcos, CA 92078
1802 Don Lee Pl Escondido, CA 92029	650 S Rancho Santa Fe Rd #51 San Marcos, CA 92078
1804 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd #57 San Marcos, CA 92078
1805 Country Club Dr Escondido, CA 92029	650 S Rancho Santa Fe Rd #60 San Marcos, CA 92078
1806 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd #66 San Marcos, CA 92078
1808 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd #71 San Marcos, CA 92078
1808 Verano Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd #72 San Marcos, CA 92078
1809 Verano Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd #75 San Marcos, CA 92078
181 Daphne St Encinitas, CA 92024	650 S Rancho Santa Fe Rd #77 San Marcos, CA 92078
1810 Diamond St San Marcos, CA 92078	650 S Rancho Santa Fe Rd #82 San Marcos, CA 92078
1810 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd #87 San Marcos, CA 92078
1810 Lodgepole Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd #88 San Marcos, CA 92078
1812 Country Club Dr Escondido, CA 92029	650 S Rancho Santa Fe Rd #89 San Marcos, CA 92078
1812 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd #91 San Marcos, CA 92078
18133 Pacifica Ranch Dr Rancho Santa Fe, CA 92091	650 S Rancho Santa Fe Rd #93 San Marcos, CA 92078
1814 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd #94 San Marcos, CA 92078
1816 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd #98 San Marcos, CA 92078
1816 Verano Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd San Marcos, CA 92078
1817 Verano Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 01 San Marcos, CA 92078
1818 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 02 San Marcos, CA 92078
1819 Via Gavilan San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 03 San Marcos, CA 92078
1820 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 04 San Marcos, CA 92078
1820 Melrose Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 05 San Marcos, CA 92078
1822 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 06 San Marcos, CA 92078
1824 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 07 San Marcos, CA 92078
1824 Verano Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 08 San Marcos, CA 92078
1825 Diamond St San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 09 San Marcos, CA 92078
1825 Verano Vista San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 10 San Marcos, CA 92078
1826 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 100 San Marcos, CA 92078
1830 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 101 San Marcos, CA 92078
1830 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 102 San Marcos, CA 92078
1832 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 103 San Marcos, CA 92078
1833 Diamond St San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 104 San Marcos, CA 92078
1834 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 105 San Marcos, CA 92078
1836 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 106 San Marcos, CA 92078
1836 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 108 San Marcos, CA 92078
1837 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 109 San Marcos, CA 92078
18378 Calle Stellina Rancho Santa Fe, CA 92091	650 S Rancho Santa Fe Rd, Ste. 110 San Marcos, CA 92078

600' NOTIFICATION LIST

1838 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 112 San Marcos, CA 92078
1839 Tanglewood Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 113 San Marcos, CA 92078
184 Juan M Cruz Dr Santa Rita Gu 96915	650 S Rancho Santa Fe Rd, Ste. 114 San Marcos, CA 92078
1840 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 115 San Marcos, CA 92078
1840 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 116 San Marcos, CA 92078
1840 La Costa Meadows Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 117 San Marcos, CA 92078
1840 Windriver St San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 118 San Marcos, CA 92078
1841 Windriver St San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 119 San Marcos, CA 92078
1842 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 12 San Marcos, CA 92078
1842 Tanglewood Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 120 San Marcos, CA 92078
1843 Tanglewood Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 121 San Marcos, CA 92078
1844 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 122 San Marcos, CA 92078
1844 Windriver St San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 123 San Marcos, CA 92078
1845 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 124 San Marcos, CA 92078
1845 Lodgepole Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 125 San Marcos, CA 92078
1845 Windriver St San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 126 San Marcos, CA 92078
1847 Tanglewood Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 127 San Marcos, CA 92078
1848 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 128 San Marcos, CA 92078
1848 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 129 San Marcos, CA 92078
1848 Windriver St San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 13 San Marcos, CA 92078
1849 Tanglewood Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 130 San Marcos, CA 92078
1850 Diamond St #105 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 131 San Marcos, CA 92078
1850 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 132 San Marcos, CA 92078
1850 Hacienda Dr Vista, CA 92081	650 S Rancho Santa Fe Rd, Ste. 133 San Marcos, CA 92078
1850 S Quail Run Cottonwood, AZ 86326	650 S Rancho Santa Fe Rd, Ste. 134 San Marcos, CA 92078
18500 Von Karman Ave #1100 Irvine, CA 92612	650 S Rancho Santa Fe Rd, Ste. 135 San Marcos, CA 92078
1851 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 136 San Marcos, CA 92078
18515 Old Coach Way Poway, CA 92064	650 S Rancho Santa Fe Rd, Ste. 137 San Marcos, CA 92078
1852 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 138 San Marcos, CA 92078
1853 Tanglewood Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 139 San Marcos, CA 92078
1854 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 14 San Marcos, CA 92078
1855 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 140 San Marcos, CA 92078
1855 Lodgepole Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 142 San Marcos, CA 92078
1856 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 144 San Marcos, CA 92078
1856 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 145 San Marcos, CA 92078
1858 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 146 San Marcos, CA 92078
1860 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 147 San Marcos, CA 92078
1862 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 148 San Marcos, CA 92078
1863 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 149 San Marcos, CA 92078
1864 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 15 San Marcos, CA 92078
1864 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 151 San Marcos, CA 92078
1865 Lodgepole Rd San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 152 San Marcos, CA 92078
1866 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 153 San Marcos, CA 92078
1868 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 154 San Marcos, CA 92078
1870 Fairway Circle Dr San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 155 San Marcos, CA 92078
1873 Buckskin Gln Escondido, CA 92027	650 S Rancho Santa Fe Rd, Ste. 156 San Marcos, CA 92078
1873 Diamond St San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 157 San Marcos, CA 92078
1873 Sunbury St Escondido, CA 92026	650 S Rancho Santa Fe Rd, Ste. 158 San Marcos, CA 92078
18880 Von Karman Ave; Pmb 1500 Irvine, CA 92612	650 S Rancho Santa Fe Rd, Ste. 159 San Marcos, CA 92078
19004 E Mauna Loa Ave Glendora, CA 91740	650 S Rancho Santa Fe Rd, Ste. 16 San Marcos, CA 92078
1903 Citracado Pkwy Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 160 San Marcos, CA 92078
1903 San Marcos Blvd San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 161 San Marcos, CA 92078
1903 Wright Pl #220 Carlsbad, CA 92008	650 S Rancho Santa Fe Rd, Ste. 162 San Marcos, CA 92078

600' NOTIFICATION LIST

1904 Via Firenze Henderson, NV 89044	650 S Rancho Santa Fe Rd, Ste. 163 San Marcos, CA 92078
1905 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 164 San Marcos, CA 92078
1909 W San Marcos Blvd San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 165 San Marcos, CA 92078
1911 Aberdeen Ln Mountain View, CA 94043	650 S Rancho Santa Fe Rd, Ste. 166 San Marcos, CA 92078
1911 Glenridge Rd Escondido, CA 92027	650 S Rancho Santa Fe Rd, Ste. 167 San Marcos, CA 92078
1915 Briargate Pl Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 168 San Marcos, CA 92078
1915 Citracado Pkwy Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 169 San Marcos, CA 92078
1915 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 170 San Marcos, CA 92078
1915 W San Marcos Blvd San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 171 San Marcos, CA 92078
1916 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 172 San Marcos, CA 92078
1920 Citracado Pkwy Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 173 San Marcos, CA 92078
1921 San Marcos Blvd San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 174 San Marcos, CA 92078
1923 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 175 San Marcos, CA 92078
1924 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 176 San Marcos, CA 92078
1927 Bridgepointe Pkwy #234 San Mateo, CA 94404	650 S Rancho Santa Fe Rd, Ste. 177 San Marcos, CA 92078
1929 W San Marcos Blvd San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 178 San Marcos, CA 92078
1930 Citracado Pkwy Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 179 San Marcos, CA 92078
1930 Commercial St Escondido, CA 92029	650 S Rancho Santa Fe Rd, Ste. 18 San Marcos, CA 92078
1930 San Marcos Blvd, Ste. 278 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 180 San Marcos, CA 92078
1930 W San Marcos Blvd #100 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 181 San Marcos, CA 92078
1930 W San Marcos Blvd #101 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 182 San Marcos, CA 92078
1930 W San Marcos Blvd #102 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 183 San Marcos, CA 92078
1930 W San Marcos Blvd #104 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 184 San Marcos, CA 92078
1930 W San Marcos Blvd #105 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 185 San Marcos, CA 92078
1930 W San Marcos Blvd #108 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 186 San Marcos, CA 92078
1930 W San Marcos Blvd #109 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 187 San Marcos, CA 92078
1930 W San Marcos Blvd #11 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 188 San Marcos, CA 92078
1930 W San Marcos Blvd #110 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 189 San Marcos, CA 92078
1930 W San Marcos Blvd #111 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 19 San Marcos, CA 92078
1930 W San Marcos Blvd #117 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 190 San Marcos, CA 92078
1930 W San Marcos Blvd #118 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 191 San Marcos, CA 92078
1930 W San Marcos Blvd #120 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 192 San Marcos, CA 92078
1930 W San Marcos Blvd #121 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 193 San Marcos, CA 92078
1930 W San Marcos Blvd #122 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 194 San Marcos, CA 92078
1930 W San Marcos Blvd #125 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 195 San Marcos, CA 92078
1930 W San Marcos Blvd #126 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 196 San Marcos, CA 92078
1930 W San Marcos Blvd #127 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 198 San Marcos, CA 92078
1930 W San Marcos Blvd #13 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 199 San Marcos, CA 92078
1930 W San Marcos Blvd #133 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 201 San Marcos, CA 92078
1930 W San Marcos Blvd #138 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 202 San Marcos, CA 92078
1930 W San Marcos Blvd #141 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 203 San Marcos, CA 92078
1930 W San Marcos Blvd #144 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 204 San Marcos, CA 92078
1930 W San Marcos Blvd #146 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 205 San Marcos, CA 92078
1930 W San Marcos Blvd #147 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 207 San Marcos, CA 92078
1930 W San Marcos Blvd #151 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 208 San Marcos, CA 92078
1930 W San Marcos Blvd #152 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 209 San Marcos, CA 92078
1930 W San Marcos Blvd #153 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 21 San Marcos, CA 92078
1930 W San Marcos Blvd #154 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 210 San Marcos, CA 92078
1930 W San Marcos Blvd #159 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 211 San Marcos, CA 92078
1930 W San Marcos Blvd #16 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 212 San Marcos, CA 92078
1930 W San Marcos Blvd #160 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 213 San Marcos, CA 92078
1930 W San Marcos Blvd #161 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 214 San Marcos, CA 92078
1930 W San Marcos Blvd #162 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 215 San Marcos, CA 92078

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1930 W San Marcos Blvd #163 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 216 San Marcos, CA 92078
1930 W San Marcos Blvd #166 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 217 San Marcos, CA 92078
1930 W San Marcos Blvd #167 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 218 San Marcos, CA 92078
1930 W San Marcos Blvd #168a San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 219 San Marcos, CA 92078
1930 W San Marcos Blvd #169 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 22 San Marcos, CA 92078
1930 W San Marcos Blvd #170 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 220 San Marcos, CA 92078
1930 W San Marcos Blvd #171 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 221 San Marcos, CA 92078
1930 W San Marcos Blvd #172 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 222 San Marcos, CA 92078
1930 W San Marcos Blvd #173 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 223 San Marcos, CA 92078
1930 W San Marcos Blvd #174 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 225 San Marcos, CA 92078
1930 W San Marcos Blvd #176 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 226 San Marcos, CA 92078
1930 W San Marcos Blvd #177 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 227 San Marcos, CA 92078
1930 W San Marcos Blvd #178 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 228 San Marcos, CA 92078
1930 W San Marcos Blvd #179 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 229 San Marcos, CA 92078
1930 W San Marcos Blvd #180 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 23 San Marcos, CA 92078
1930 W San Marcos Blvd #180a San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 230 San Marcos, CA 92078
1930 W San Marcos Blvd #181 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 231 San Marcos, CA 92078
1930 W San Marcos Blvd #182 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 232 San Marcos, CA 92078
1930 W San Marcos Blvd #183 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 233 San Marcos, CA 92078
1930 W San Marcos Blvd #184 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 234 San Marcos, CA 92078
1930 W San Marcos Blvd #186 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 235 San Marcos, CA 92078
1930 W San Marcos Blvd #187 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 236 San Marcos, CA 92078
1930 W San Marcos Blvd #188 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 237 San Marcos, CA 92078
1930 W San Marcos Blvd #189 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 238 San Marcos, CA 92078
1930 W San Marcos Blvd #190 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 239 San Marcos, CA 92078
1930 W San Marcos Blvd #191 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 24 San Marcos, CA 92078
1930 W San Marcos Blvd #192 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 240 San Marcos, CA 92078
1930 W San Marcos Blvd #193 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 241 San Marcos, CA 92078
1930 W San Marcos Blvd #194 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 242 San Marcos, CA 92078
1930 W San Marcos Blvd #195 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 243 San Marcos, CA 92078
1930 W San Marcos Blvd #197 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 244 San Marcos, CA 92078
1930 W San Marcos Blvd #198 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 245 San Marcos, CA 92078
1930 W San Marcos Blvd #20 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 246 San Marcos, CA 92078
1930 W San Marcos Blvd #201 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 247 San Marcos, CA 92078
1930 W San Marcos Blvd #204 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 248 San Marcos, CA 92078
1930 W San Marcos Blvd #206 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 249 San Marcos, CA 92078
1930 W San Marcos Blvd #207 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 25 San Marcos, CA 92078
1930 W San Marcos Blvd #208 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 251 San Marcos, CA 92078
1930 W San Marcos Blvd #209 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 252 San Marcos, CA 92078
1930 W San Marcos Blvd #211 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 253 San Marcos, CA 92078
1930 W San Marcos Blvd #212 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 255 San Marcos, CA 92078
1930 W San Marcos Blvd #212a San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 256 San Marcos, CA 92078
1930 W San Marcos Blvd #213 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 257 San Marcos, CA 92078
1930 W San Marcos Blvd #214 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 258 San Marcos, CA 92078
1930 W San Marcos Blvd #215 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 259 San Marcos, CA 92078
1930 W San Marcos Blvd #216 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 26 San Marcos, CA 92078
1930 W San Marcos Blvd #217 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 260 San Marcos, CA 92078
1930 W San Marcos Blvd #218 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 261 San Marcos, CA 92078
1930 W San Marcos Blvd #219 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 262 San Marcos, CA 92078
1930 W San Marcos Blvd #221 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 263 San Marcos, CA 92078
1930 W San Marcos Blvd #222 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 264 San Marcos, CA 92078
1930 W San Marcos Blvd #223 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 265 San Marcos, CA 92078
1930 W San Marcos Blvd #224 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 266 San Marcos, CA 92078

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1930 W San Marcos Blvd #225 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 267 San Marcos, CA 92078
1930 W San Marcos Blvd #226 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 268 San Marcos, CA 92078
1930 W San Marcos Blvd #227 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 269 San Marcos, CA 92078
1930 W San Marcos Blvd #228 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 27 San Marcos, CA 92078
1930 W San Marcos Blvd #229 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 270 San Marcos, CA 92078
1930 W San Marcos Blvd #230 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 271 San Marcos, CA 92078
1930 W San Marcos Blvd #230a San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 272 San Marcos, CA 92078
1930 W San Marcos Blvd #230b San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 273 San Marcos, CA 92078
1930 W San Marcos Blvd #231 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 274 San Marcos, CA 92078
1930 W San Marcos Blvd #232 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 275 San Marcos, CA 92078
1930 W San Marcos Blvd #233 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 276 San Marcos, CA 92078
1930 W San Marcos Blvd #233a San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 277 San Marcos, CA 92078
1930 W San Marcos Blvd #233b San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 278 San Marcos, CA 92078
1930 W San Marcos Blvd #234 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 279 San Marcos, CA 92078
1930 W San Marcos Blvd #235 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 28 San Marcos, CA 92078
1930 W San Marcos Blvd #236 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 280 San Marcos, CA 92078
1930 W San Marcos Blvd #237 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 281 San Marcos, CA 92078
1930 W San Marcos Blvd #238 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 282 San Marcos, CA 92078
1930 W San Marcos Blvd #238a San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 283 San Marcos, CA 92078
1930 W San Marcos Blvd #239 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 285 San Marcos, CA 92078
1930 W San Marcos Blvd #240 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 286 San Marcos, CA 92078
1930 W San Marcos Blvd #241 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 287 San Marcos, CA 92078
1930 W San Marcos Blvd #243 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 288 San Marcos, CA 92078
1930 W San Marcos Blvd #244 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 289 San Marcos, CA 92078
1930 W San Marcos Blvd #246 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 29 San Marcos, CA 92078
1930 W San Marcos Blvd #250 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 290 San Marcos, CA 92078
1930 W San Marcos Blvd #254 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 291 San Marcos, CA 92078
1930 W San Marcos Blvd #255 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 292 San Marcos, CA 92078
1930 W San Marcos Blvd #257 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 293 San Marcos, CA 92078
1930 W San Marcos Blvd #258 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 294 San Marcos, CA 92078
1930 W San Marcos Blvd #259 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 295 San Marcos, CA 92078
1930 W San Marcos Blvd #26 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 296 San Marcos, CA 92078
1930 W San Marcos Blvd #261 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 297 San Marcos, CA 92078
1930 W San Marcos Blvd #262 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 298 San Marcos, CA 92078
1930 W San Marcos Blvd #267 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 299 San Marcos, CA 92078
1930 W San Marcos Blvd #268 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 30 San Marcos, CA 92078
1930 W San Marcos Blvd #270 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 300 San Marcos, CA 92078
1930 W San Marcos Blvd #272 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 301 San Marcos, CA 92078
1930 W San Marcos Blvd #275 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 302 San Marcos, CA 92078
1930 W San Marcos Blvd #279 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 303 San Marcos, CA 92078
1930 W San Marcos Blvd #280 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 304 San Marcos, CA 92078
1930 W San Marcos Blvd #281 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 305 San Marcos, CA 92078
1930 W San Marcos Blvd #285 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 306 San Marcos, CA 92078
1930 W San Marcos Blvd #287 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 307 San Marcos, CA 92078
1930 W San Marcos Blvd #289 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 308 San Marcos, CA 92078
1930 W San Marcos Blvd #291 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 309 San Marcos, CA 92078
1930 W San Marcos Blvd #293 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 31 San Marcos, CA 92078
1930 W San Marcos Blvd #295 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 310 San Marcos, CA 92078
1930 W San Marcos Blvd #298 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 311 San Marcos, CA 92078
1930 W San Marcos Blvd #299 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 312 San Marcos, CA 92078
1930 W San Marcos Blvd #3 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 314 San Marcos, CA 92078
1930 W San Marcos Blvd #301 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 315 San Marcos, CA 92078
1930 W San Marcos Blvd #302 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 316 San Marcos, CA 92078

600' NOTIFICATION LIST

1930 W San Marcos Blvd #303 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 317 San Marcos, CA 92078
1930 W San Marcos Blvd #305 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 318 San Marcos, CA 92078
1930 W San Marcos Blvd #307 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 32 San Marcos, CA 92078
1930 W San Marcos Blvd #308 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 320 San Marcos, CA 92078
1930 W San Marcos Blvd #313 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 322 San Marcos, CA 92078
1930 W San Marcos Blvd #314 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 323 San Marcos, CA 92078
1930 W San Marcos Blvd #316 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 324 San Marcos, CA 92078
1930 W San Marcos Blvd #317 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 325 San Marcos, CA 92078
1930 W San Marcos Blvd #319 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 326 San Marcos, CA 92078
1930 W San Marcos Blvd #325 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 327 San Marcos, CA 92078
1930 W San Marcos Blvd #329 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 328 San Marcos, CA 92078
1930 W San Marcos Blvd #331 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 329 San Marcos, CA 92078
1930 W San Marcos Blvd #332 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 33 San Marcos, CA 92078
1930 W San Marcos Blvd #333 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 330 San Marcos, CA 92078
1930 W San Marcos Blvd #334 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 331 San Marcos, CA 92078
1930 W San Marcos Blvd #335 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 332 San Marcos, CA 92078
1930 W San Marcos Blvd #340 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 333 San Marcos, CA 92078
1930 W San Marcos Blvd #341 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 334 San Marcos, CA 92078
1930 W San Marcos Blvd #344 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 335 San Marcos, CA 92078
1930 W San Marcos Blvd #348 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 336 San Marcos, CA 92078
1930 W San Marcos Blvd #35 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 337 San Marcos, CA 92078
1930 W San Marcos Blvd #351 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 338 San Marcos, CA 92078
1930 W San Marcos Blvd #352 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 339 San Marcos, CA 92078
1930 W San Marcos Blvd #358 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 34 San Marcos, CA 92078
1930 W San Marcos Blvd #359 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 340 San Marcos, CA 92078
1930 W San Marcos Blvd #36 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 341 San Marcos, CA 92078
1930 W San Marcos Blvd #361 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 342 San Marcos, CA 92078
1930 W San Marcos Blvd #363 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 343 San Marcos, CA 92078
1930 W San Marcos Blvd #365 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 344 San Marcos, CA 92078
1930 W San Marcos Blvd #366 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 345 San Marcos, CA 92078
1930 W San Marcos Blvd #368 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 347 San Marcos, CA 92078
1930 W San Marcos Blvd #369 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 348 San Marcos, CA 92078
1930 W San Marcos Blvd #370 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 349 San Marcos, CA 92078
1930 W San Marcos Blvd #373 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 35 San Marcos, CA 92078
1930 W San Marcos Blvd #376 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 350 San Marcos, CA 92078
1930 W San Marcos Blvd #379 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 351 San Marcos, CA 92078
1930 W San Marcos Blvd #380 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 352 San Marcos, CA 92078
1930 W San Marcos Blvd #382 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 353 San Marcos, CA 92078
1930 W San Marcos Blvd #383 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 354 San Marcos, CA 92078
1930 W San Marcos Blvd #384 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 355 San Marcos, CA 92078
1930 W San Marcos Blvd #386 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 356 San Marcos, CA 92078
1930 W San Marcos Blvd #387 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 357 San Marcos, CA 92078
1930 W San Marcos Blvd #39 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 358 San Marcos, CA 92078
1930 W San Marcos Blvd #392 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 359 San Marcos, CA 92078
1930 W San Marcos Blvd #394 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 36 San Marcos, CA 92078
1930 W San Marcos Blvd #396 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 360 San Marcos, CA 92078
1930 W San Marcos Blvd #397 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 361 San Marcos, CA 92078
1930 W San Marcos Blvd #398 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 362 San Marcos, CA 92078
1930 W San Marcos Blvd #399 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 363 San Marcos, CA 92078
1930 W San Marcos Blvd #399a San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 364 San Marcos, CA 92078
1930 W San Marcos Blvd #4 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 365 San Marcos, CA 92078
1930 W San Marcos Blvd #400 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 366 San Marcos, CA 92078
1930 W San Marcos Blvd #401 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 367 San Marcos, CA 92078

600' NOTIFICATION LIST

1930 W San Marcos Blvd #404 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 368 San Marcos, CA 92078
1930 W San Marcos Blvd #408 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 369 San Marcos, CA 92078
1930 W San Marcos Blvd #412 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 37 San Marcos, CA 92078
1930 W San Marcos Blvd #421 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 370 San Marcos, CA 92078
1930 W San Marcos Blvd #422 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 371 San Marcos, CA 92078
1930 W San Marcos Blvd #425 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 372 San Marcos, CA 92078
1930 W San Marcos Blvd #428 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 38 San Marcos, CA 92078
1930 W San Marcos Blvd #430 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 39 San Marcos, CA 92078
1930 W San Marcos Blvd #431 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 40 San Marcos, CA 92078
1930 W San Marcos Blvd #433 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 41 San Marcos, CA 92078
1930 W San Marcos Blvd #435 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 42 San Marcos, CA 92078
1930 W San Marcos Blvd #436 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 43 San Marcos, CA 92078
1930 W San Marcos Blvd #436a San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 44 San Marcos, CA 92078
1930 W San Marcos Blvd #438 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 45 San Marcos, CA 92078
1930 W San Marcos Blvd #439 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 46 San Marcos, CA 92078
1930 W San Marcos Blvd #440 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 47 San Marcos, CA 92078
1930 W San Marcos Blvd #442 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 49 San Marcos, CA 92078
1930 W San Marcos Blvd #443 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 51 San Marcos, CA 92078
1930 W San Marcos Blvd #445 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 53 San Marcos, CA 92078
1930 W San Marcos Blvd #446 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 54 San Marcos, CA 92078
1930 W San Marcos Blvd #449 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 55 San Marcos, CA 92078
1930 W San Marcos Blvd #45 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 56 San Marcos, CA 92078
1930 W San Marcos Blvd #450 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 57 San Marcos, CA 92078
1930 W San Marcos Blvd #451 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 58 San Marcos, CA 92078
1930 W San Marcos Blvd #452 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 59 San Marcos, CA 92078
1930 W San Marcos Blvd #456 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 60 San Marcos, CA 92078
1930 W San Marcos Blvd #457 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 61 San Marcos, CA 92078
1930 W San Marcos Blvd #458 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 62 San Marcos, CA 92078
1930 W San Marcos Blvd #47 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 63 San Marcos, CA 92078
1930 W San Marcos Blvd #48 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 64 San Marcos, CA 92078
1930 W San Marcos Blvd #53 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 65 San Marcos, CA 92078
1930 W San Marcos Blvd #54 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 66 San Marcos, CA 92078
1930 W San Marcos Blvd #58 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 67 San Marcos, CA 92078
1930 W San Marcos Blvd #60 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 69 San Marcos, CA 92078
1930 W San Marcos Blvd #62 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 71 San Marcos, CA 92078
1930 W San Marcos Blvd #64 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 72 San Marcos, CA 92078
1930 W San Marcos Blvd #66 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 75 San Marcos, CA 92078
1930 W San Marcos Blvd #67 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 76 San Marcos, CA 92078
1930 W San Marcos Blvd #68 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 77 San Marcos, CA 92078
1930 W San Marcos Blvd #7 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 78 San Marcos, CA 92078
1930 W San Marcos Blvd #73 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 80 San Marcos, CA 92078
1930 W San Marcos Blvd #76 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 81 San Marcos, CA 92078
1930 W San Marcos Blvd #77 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 82 San Marcos, CA 92078
1930 W San Marcos Blvd #88 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 83 San Marcos, CA 92078
1930 W San Marcos Blvd #9 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 84 San Marcos, CA 92078
1930 W San Marcos Blvd #90 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 85 San Marcos, CA 92078
1930 W San Marcos Blvd #93 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 87 San Marcos, CA 92078
1930 W San Marcos Blvd #96 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 88 San Marcos, CA 92078
1930 W San Marcos Blvd #97 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 89 San Marcos, CA 92078
1930 W San Marcos Blvd #98 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 91 San Marcos, CA 92078
1930 W San Marcos Blvd #99 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 92 San Marcos, CA 92078
1930 W San Marcos Blvd San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 93 San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 01 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 94 San Marcos, CA 92078

600' NOTIFICATION LIST

1930 W San Marcos Blvd, Ste. 02 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 96 San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 03 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 97 San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 04 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 98 San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 05 San Marcos, CA 92078	650 S Rancho Santa Fe Rd, Ste. 99 San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 06 San Marcos, CA 92078	6502 Peach Ave Van Nuys, CA 91406
1930 W San Marcos Blvd, Ste. 07 San Marcos, CA 92078	651 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 08 San Marcos, CA 92078	6524 Fremont Cir Huntington Beach, CA 92648
1930 W San Marcos Blvd, Ste. 09 San Marcos, CA 92078	654 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 10 San Marcos, CA 92078	655 Alpine Way Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 100 San Marcos, CA 92078	655 Enterprise St Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 101 San Marcos, CA 92078	655 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 102 San Marcos, CA 92078	655 Venture St Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 103 San Marcos, CA 92078	657 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 104 San Marcos, CA 92078	658 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 105 San Marcos, CA 92078	659 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 106 San Marcos, CA 92078	659 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 107 San Marcos, CA 92078	660 Mcgavran Dr Vista, CA 92081
1930 W San Marcos Blvd, Ste. 108 San Marcos, CA 92078	660 Stoneybrae Pl Escondido, CA 92027
1930 W San Marcos Blvd, Ste. 109 San Marcos, CA 92078	661 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 11 San Marcos, CA 92078	662 Enterprise St Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 110 San Marcos, CA 92078	662 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 111 San Marcos, CA 92078	663 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 112 San Marcos, CA 92078	663 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 113 San Marcos, CA 92078	665 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 114 San Marcos, CA 92078	667 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 115 San Marcos, CA 92078	667 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 116 San Marcos, CA 92078	668 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 117 San Marcos, CA 92078	669 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 118 San Marcos, CA 92078	671 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 119 San Marcos, CA 92078	671 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 12 San Marcos, CA 92078	671 Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 120 San Marcos, CA 92078	672 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 121 San Marcos, CA 92078	673 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 122 San Marcos, CA 92078	6732 Camphor Pl Carlsbad, CA 92011
1930 W San Marcos Blvd, Ste. 123 San Marcos, CA 92078	6737 W Washington St #2300 Milwaukee, WI 53214
1930 W San Marcos Blvd, Ste. 124 San Marcos, CA 92078	675 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 125 San Marcos, CA 92078	675 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 126 San Marcos, CA 92078	675 Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 127 San Marcos, CA 92078	676 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 128 San Marcos, CA 92078	677 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 129 San Marcos, CA 92078	677 S Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 13 San Marcos, CA 92078	678 Enterprise St Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 130 San Marcos, CA 92078	679 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 131 San Marcos, CA 92078	679 Enterprise St Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 132 San Marcos, CA 92078	679 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 133 San Marcos, CA 92078	6806 33rd Ave Se Lacey Wa 98503
1930 W San Marcos Blvd, Ste. 134 San Marcos, CA 92078	681 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 135 San Marcos, CA 92078	681 Weatherstone Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 136 San Marcos, CA 92078	683 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 137 San Marcos, CA 92078	683 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 138 San Marcos, CA 92078	6845 Citrine Dr Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 139 San Marcos, CA 92078	685 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 14 San Marcos, CA 92078	685 Liquid Amber Way San Marcos, CA 92078

600' NOTIFICATION LIST

1930 W San Marcos Blvd, Ste. 140 San Marcos, CA 92078	687 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 141 San Marcos, CA 92078	689 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 142 San Marcos, CA 92078	689 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 143 San Marcos, CA 92078	689 S Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 144 San Marcos, CA 92078	691 Beverly Pl San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 145 San Marcos, CA 92078	691 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 146 San Marcos, CA 92078	693 N Cornejo School Rd Thousand Oaks, CA 91362
1930 W San Marcos Blvd, Ste. 147 San Marcos, CA 92078	694 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 148 San Marcos, CA 92078	6940 Via Mariposa Sur Bonsall, CA 92003
1930 W San Marcos Blvd, Ste. 149 San Marcos, CA 92078	695 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 15 San Marcos, CA 92078	695 S Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 150 San Marcos, CA 92078	697 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 151 San Marcos, CA 92078	6970 Waters End Dr Carlsbad, CA 92011
1930 W San Marcos Blvd, Ste. 152 San Marcos, CA 92078	699 Liquid Amber Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 153 San Marcos, CA 92078	700 Front St #1904 San Diego, CA 92101
1930 W San Marcos Blvd, Ste. 154 San Marcos, CA 92078	700 Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 155 San Marcos, CA 92078	702 Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 156 San Marcos, CA 92078	7031 Partridge Pl Carlsbad, CA 92011
1930 W San Marcos Blvd, Ste. 157 San Marcos, CA 92078	7041 Almaden Ln Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 158 San Marcos, CA 92078	7055 Via Candrejo Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 159 San Marcos, CA 92078	7074 Via Blanca San Jose, CA 95139
1930 W San Marcos Blvd, Ste. 16 San Marcos, CA 92078	7085 Tatler Rd Carlsbad, CA 92011
1930 W San Marcos Blvd, Ste. 160 San Marcos, CA 92078	7111 Babilonia St Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 161 San Marcos, CA 92078	7149 Obelisco Cir Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 162 San Marcos, CA 92078	722 Enterprise St Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 163 San Marcos, CA 92078	7249 Sitio Lima Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 164 San Marcos, CA 92078	725 Alta Vista Dr Vista, CA 92084
1930 W San Marcos Blvd, Ste. 165 San Marcos, CA 92078	7304 E Visao Dr Scottsdale AZ 85266
1930 W San Marcos Blvd, Ste. 166 San Marcos, CA 92078	731 Enterprise St Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 167 San Marcos, CA 92078	7313 Black Swan Pl Carlsbad, CA 92011
1930 W San Marcos Blvd, Ste. 168 San Marcos, CA 92078	7326 Calle Pera Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 168a San Marcos, CA 92078	7333 Altiva Pl Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 169 San Marcos, CA 92078	734 Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 17 San Marcos, CA 92078	734 Rancho Snata Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 170 San Marcos, CA 92078	73-4350 Kio-Paa Pl Kailua Kona, HI 96740
1930 W San Marcos Blvd, Ste. 171 San Marcos, CA 92078	735 Firth Ave Long Beach, CA 90049
1930 W San Marcos Blvd, Ste. 172 San Marcos, CA 92078	7355 Circulo Rhonda Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 173 San Marcos, CA 92078	736 Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 174 San Marcos, CA 92078	740 Enterprise St Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 175 San Marcos, CA 92078	740 Lomas Santa Fe Dr #204 Solana Beach, CA 92075
1930 W San Marcos Blvd, Ste. 176 San Marcos, CA 92078	740 Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 177 San Marcos, CA 92078	7401 Avenida De Palais Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 178 San Marcos, CA 92078	742 Cody Ln Escondido, CA 92025
1930 W San Marcos Blvd, Ste. 179 San Marcos, CA 92078	747 Enterprise St Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 18 San Marcos, CA 92078	750 Crest Dr Encinitas, CA 92024
1930 W San Marcos Blvd, Ste. 180 San Marcos, CA 92078	757 Twin Oaks Valley Rd #1 San Marcos, CA 92069
1930 W San Marcos Blvd, Ste. 180a San Marcos, CA 92078	762 S Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 181 San Marcos, CA 92078	7627 Little Creek Rd Escondido, CA 92078
1930 W San Marcos Blvd, Ste. 182 San Marcos, CA 92078	7635 Little Creek Rd Escondido, CA 92078
1930 W San Marcos Blvd, Ste. 183 San Marcos, CA 92078	7668 El Camino Real #104-449 Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 184 San Marcos, CA 92078	7688 Little Creek Rd Escondido, CA 92078
1930 W San Marcos Blvd, Ste. 185 San Marcos, CA 92078	7781 Quitasol St Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 186 San Marcos, CA 92078	790 Poppy Rd San Marcos, CA 92078

600' NOTIFICATION LIST

1930 W San Marcos Blvd, Ste. 187 San Marcos, CA 92078	7954 Calle Madrid Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 188 San Marcos, CA 92078	7968 Grado El Tupelo Carlsbad, CA 92009
1930 W San Marcos Blvd, Ste. 189 San Marcos, CA 92078	798 Marcos Vista Ln San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 19 San Marcos, CA 92078	8 Bretton Rdg Bedford Corners, NY 10549
1930 W San Marcos Blvd, Ste. 190 San Marcos, CA 92078	800 Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 191 San Marcos, CA 92078	802 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 192 San Marcos, CA 92078	804 La Bonita Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 193 San Marcos, CA 92078	807 E Mission Rd San Marcos, CA 92069
1930 W San Marcos Blvd, Ste. 194 San Marcos, CA 92078	808 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 195 San Marcos, CA 92078	80892 Rockberry Ct Indio, CA 92201
1930 W San Marcos Blvd, Ste. 196 San Marcos, CA 92078	810 La Bonita Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 197 San Marcos, CA 92078	815 Luminara Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 198 San Marcos, CA 92078	816 La Bonita Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 199 San Marcos, CA 92078	816 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 20 San Marcos, CA 92078	818 Summerhill Ct Encinitas, CA 92024
1930 W San Marcos Blvd, Ste. 200 San Marcos, CA 92078	821 Armada Ter San Diego, CA 92106
1930 W San Marcos Blvd, Ste. 201 San Marcos, CA 92078	821 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 202 San Marcos, CA 92078	821 Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 203 San Marcos, CA 92078	822 La Bonita Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 204 San Marcos, CA 92078	824 Bel Esprit Cir San Marcos, CA 92069
1930 W San Marcos Blvd, Ste. 205 San Marcos, CA 92078	824 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 206 San Marcos, CA 92078	825 Via La Venta San Marcos, CA 92069
1930 W San Marcos Blvd, Ste. 207 San Marcos, CA 92078	828 La Bonita Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 208 San Marcos, CA 92078	830 S Rancho Santa Fe Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 209 San Marcos, CA 92078	831 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 21 San Marcos, CA 92078	832 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 210 San Marcos, CA 92078	833 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 211 San Marcos, CA 92078	834 La Bonita Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 212 San Marcos, CA 92078	834 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 212a San Marcos, CA 92078	8354 S River Terrace Dr Franklin, WI 53132
1930 W San Marcos Blvd, Ste. 213 San Marcos, CA 92078	838 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 214 San Marcos, CA 92078	839 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 215 San Marcos, CA 92078	840 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 216 San Marcos, CA 92078	8409 Dinsdale St Downey, CA 90240
1930 W San Marcos Blvd, Ste. 217 San Marcos, CA 92078	841 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 218 San Marcos, CA 92078	842 St Sava Pl San Marcos, CA 92069
1930 W San Marcos Blvd, Ste. 219 San Marcos, CA 92078	844 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 22 San Marcos, CA 92078	846 Cannondale Ct San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 220 San Marcos, CA 92078	847 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 221 San Marcos, CA 92078	848 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 222 San Marcos, CA 92078	849 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 223 San Marcos, CA 92078	85091 Christian Way #317 Yulee, Fl 32097
1930 W San Marcos Blvd, Ste. 224 San Marcos, CA 92078	852 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 225 San Marcos, CA 92078	854 Rancho Santa Fe Rd #F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 226 San Marcos, CA 92078	854 S Rancho Santa Fe Rd #C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 227 San Marcos, CA 92078	854 S Rancho Santa Fe Rd #D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 228 San Marcos, CA 92078	854 S Rancho Santa Fe Rd #E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 229 San Marcos, CA 92078	854 S Rancho Santa Fe Rd #H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 23 San Marcos, CA 92078	854 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 230 San Marcos, CA 92078	854 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 230a San Marcos, CA 92078	854 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 230b San Marcos, CA 92078	854 S Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 231 San Marcos, CA 92078	854 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078

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1930 W San Marcos Blvd, Ste. 232 San Marcos, CA 92078	854 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 233 San Marcos, CA 92078	854 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 233a San Marcos, CA 92078	854 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 233b San Marcos, CA 92078	856 La Tierra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 233c San Marcos, CA 92078	857 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 234 San Marcos, CA 92078	858 Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 235 San Marcos, CA 92078	858 S Rancho Santa Fe Rd #B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 236 San Marcos, CA 92078	858 S Rancho Santa Fe Rd #F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 237 San Marcos, CA 92078	858 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 238 San Marcos, CA 92078	858 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 238a San Marcos, CA 92078	858 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 239 San Marcos, CA 92078	858 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 24 San Marcos, CA 92078	858 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 240 San Marcos, CA 92078	858 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 241 San Marcos, CA 92078	858 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 242 San Marcos, CA 92078	858 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 243 San Marcos, CA 92078	864 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 244 San Marcos, CA 92078	865 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 245 San Marcos, CA 92078	866 Rancho Santa Fe Rd #E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 246 San Marcos, CA 92078	866 S Rancho Santa Fe Rd #A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 247 San Marcos, CA 92078	866 S Rancho Santa Fe Rd #C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 248 San Marcos, CA 92078	866 S Rancho Santa Fe Rd #F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 249 San Marcos, CA 92078	866 S Rancho Santa Fe Rd #G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 25 San Marcos, CA 92078	866 S Rancho Santa Fe Rd #H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 250 San Marcos, CA 92078	866 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 251 San Marcos, CA 92078	866 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 252 San Marcos, CA 92078	866 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 253 San Marcos, CA 92078	866 S Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 254 San Marcos, CA 92078	866 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 255 San Marcos, CA 92078	866 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 256 San Marcos, CA 92078	866 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 257 San Marcos, CA 92078	866 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 258 San Marcos, CA 92078	868 S Rancho Santa Fe Rd #A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 259 San Marcos, CA 92078	868 S Rancho Santa Fe Rd #D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 259a San Marcos, CA 92078	868 S Rancho Santa Fe Rd #F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 259b San Marcos, CA 92078	868 S Rancho Santa Fe Rd #G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 26 San Marcos, CA 92078	868 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 260 San Marcos, CA 92078	868 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 261 San Marcos, CA 92078	868 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 262 San Marcos, CA 92078	868 S Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 263 San Marcos, CA 92078	868 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 264 San Marcos, CA 92078	868 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 265 San Marcos, CA 92078	868 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 266 San Marcos, CA 92078	868 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 267 San Marcos, CA 92078	870 S Rancho Santa Fe Rd #A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 268 San Marcos, CA 92078	870 S Rancho Santa Fe Rd #B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 269 San Marcos, CA 92078	870 S Rancho Santa Fe Rd #C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 27 San Marcos, CA 92078	870 S Rancho Santa Fe Rd #D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 270 San Marcos, CA 92078	870 S Rancho Santa Fe Rd #E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 271 San Marcos, CA 92078	870 S Rancho Santa Fe Rd #G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 272 San Marcos, CA 92078	870 S Rancho Santa Fe Rd #H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 273 San Marcos, CA 92078	870 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 274 San Marcos, CA 92078	870 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078

600' NOTIFICATION LIST

1930 W San Marcos Blvd, Ste. 275 San Marcos, CA 92078	870 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 276 San Marcos, CA 92078	870 S Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 277 San Marcos, CA 92078	870 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 279 San Marcos, CA 92078	870 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 28 San Marcos, CA 92078	870 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 280 San Marcos, CA 92078	870 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 281 San Marcos, CA 92078	871 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 282 San Marcos, CA 92078	872 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 283 San Marcos, CA 92078	874 Rancho Santa Fe Rd #C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 284 San Marcos, CA 92078	874 S Rancho Santa Fe Rd #F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 285 San Marcos, CA 92078	874 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 286 San Marcos, CA 92078	874 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 287 San Marcos, CA 92078	874 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 288 San Marcos, CA 92078	874 S Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 289 San Marcos, CA 92078	874 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 29 San Marcos, CA 92078	874 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 290 San Marcos, CA 92078	874 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 291 San Marcos, CA 92078	874 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 292 San Marcos, CA 92078	875 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 293 San Marcos, CA 92078	877 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 294 San Marcos, CA 92078	880 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 295 San Marcos, CA 92078	885 Summer Moon Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 296 San Marcos, CA 92078	886 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 297 San Marcos, CA 92078	886 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 298 San Marcos, CA 92078	887 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 299 San Marcos, CA 92078	888 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 30 San Marcos, CA 92078	888 San Clemente Dr #100 Newport Beach, CA 92660
1930 W San Marcos Blvd, Ste. 300 San Marcos, CA 92078	890 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 301 San Marcos, CA 92078	891 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 302 San Marcos, CA 92078	891 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 303 San Marcos, CA 92078	891 Summer Moon Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 304 San Marcos, CA 92078	892 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 305 San Marcos, CA 92078	893 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 306 San Marcos, CA 92078	894 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 307 San Marcos, CA 92078	894 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 308 San Marcos, CA 92078	8947 La Camesa St San Diego, CA 92129
1930 W San Marcos Blvd, Ste. 309 San Marcos, CA 92078	895 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 31 San Marcos, CA 92078	8950 Mt Israel Rd Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 310 San Marcos, CA 92078	896 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 311 San Marcos, CA 92078	896 Summer Moon Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 312 San Marcos, CA 92078	897 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 313 San Marcos, CA 92078	897 Summer Moon Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 314 San Marcos, CA 92078	898 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 315 San Marcos, CA 92078	899 Genoa Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 316 San Marcos, CA 92078	9 Corte Azul Moraga, CA 94556
1930 W San Marcos Blvd, Ste. 317 San Marcos, CA 92078	901 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 319 San Marcos, CA 92078	901 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 32 San Marcos, CA 92078	902 La Sombra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 320 San Marcos, CA 92078	902 S Rancho Santa Fe Rd #B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 321 San Marcos, CA 92078	902 S Rancho Santa Fe Rd #C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 322 San Marcos, CA 92078	902 S Rancho Santa Fe Rd #E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 323 San Marcos, CA 92078	902 S Rancho Santa Fe Rd #F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 324 San Marcos, CA 92078	902 S Rancho Santa Fe Rd #G San Marcos, CA 92078

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1930 W San Marcos Blvd, Ste. 325 San Marcos, CA 92078	902 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 326 San Marcos, CA 92078	902 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 327 San Marcos, CA 92078	902 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 328 San Marcos, CA 92078	902 S Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 329 San Marcos, CA 92078	902 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 33 San Marcos, CA 92078	902 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 330 San Marcos, CA 92078	902 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 331 San Marcos, CA 92078	902 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 332 San Marcos, CA 92078	903 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 333 San Marcos, CA 92078	904 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 334 San Marcos, CA 92078	905 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 335 San Marcos, CA 92078	905 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 336 San Marcos, CA 92078	905 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 337 San Marcos, CA 92078	906 S Rancho Santa Fe Rd #B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 338 San Marcos, CA 92078	906 S Rancho Santa Fe Rd #E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 339 San Marcos, CA 92078	906 S Rancho Santa Fe Rd #G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 34 San Marcos, CA 92078	906 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 340 San Marcos, CA 92078	906 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 341 San Marcos, CA 92078	906 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 342 San Marcos, CA 92078	906 S Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 343 San Marcos, CA 92078	906 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 344 San Marcos, CA 92078	906 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 345 San Marcos, CA 92078	906 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 346 San Marcos, CA 92078	906 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 347 San Marcos, CA 92078	906 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 348 San Marcos, CA 92078	907 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 349 San Marcos, CA 92078	908 La Sombra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 35 San Marcos, CA 92078	909 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 350 San Marcos, CA 92078	910 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 351 San Marcos, CA 92078	910 Candlelite Dr San Marcos, CA 92069
1930 W San Marcos Blvd, Ste. 352 San Marcos, CA 92078	910 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 353 San Marcos, CA 92078	910 S Rancho Santa Fe Rd #A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 354 San Marcos, CA 92078	910 S Rancho Santa Fe Rd #C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 355 San Marcos, CA 92078	910 S Rancho Santa Fe Rd #F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 356 San Marcos, CA 92078	910 S Rancho Santa Fe Rd #G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 357 San Marcos, CA 92078	910 S Rancho Santa Fe Rd #H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 358 San Marcos, CA 92078	910 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 359 San Marcos, CA 92078	910 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 36 San Marcos, CA 92078	910 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 360 San Marcos, CA 92078	910 S Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 361 San Marcos, CA 92078	910 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 362 San Marcos, CA 92078	910 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 363 San Marcos, CA 92078	910 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 364 San Marcos, CA 92078	910 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 365 San Marcos, CA 92078	911 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 366 San Marcos, CA 92078	9115 Mt Israel Rd Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 367 San Marcos, CA 92078	912 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 368 San Marcos, CA 92078	9130 S Dadeland Blvd #1528 Miami, FL 33156
1930 W San Marcos Blvd, Ste. 369 San Marcos, CA 92078	914 La Sombra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 37 San Marcos, CA 92078	915 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 370 San Marcos, CA 92078	915 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 371 San Marcos, CA 92078	915 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 372 San Marcos, CA 92078	915 W Imperial Hwy #165 Brea, CA 92821

600' NOTIFICATION LIST

1930 W San Marcos Blvd, Ste. 373 San Marcos, CA 92078	916 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 374 San Marcos, CA 92078	917 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 375 San Marcos, CA 92078	918 S Rancho Santa Fe Rd #A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 376 San Marcos, CA 92078	918 S Rancho Santa Fe Rd #B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 377 San Marcos, CA 92078	918 S Rancho Santa Fe Rd #C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 378 San Marcos, CA 92078	918 S Rancho Santa Fe Rd #E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 379 San Marcos, CA 92078	918 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 38 San Marcos, CA 92078	918 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 380 San Marcos, CA 92078	918 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 381 San Marcos, CA 92078	918 S Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 382 San Marcos, CA 92078	918 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 383 San Marcos, CA 92078	918 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 384 San Marcos, CA 92078	918 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 385 San Marcos, CA 92078	918 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 386 San Marcos, CA 92078	918 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 387 San Marcos, CA 92078	9191 Towne Centre Dr #L101 San Diego, CA 92122
1930 W San Marcos Blvd, Ste. 388 San Marcos, CA 92078	920 La Sombra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 389 San Marcos, CA 92078	920 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 39 San Marcos, CA 92078	921 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 390 San Marcos, CA 92078	922 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 391 San Marcos, CA 92078	922 Dunleer Dr Allen, TX 75013
1930 W San Marcos Blvd, Ste. 392 San Marcos, CA 92078	923 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 393 San Marcos, CA 92078	924 S Rancho Santa Fe Rd #B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 394 San Marcos, CA 92078	924 S Rancho Santa Fe Rd #E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 395 San Marcos, CA 92078	924 S Rancho Santa Fe Rd, Ste. A San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 396 San Marcos, CA 92078	924 S Rancho Santa Fe Rd, Ste. B San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 397 San Marcos, CA 92078	924 S Rancho Santa Fe Rd, Ste. C San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 398 San Marcos, CA 92078	924 S Rancho Santa Fe Rd, Ste. D San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 399 San Marcos, CA 92078	924 S Rancho Santa Fe Rd, Ste. E San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 399a San Marcos, CA 92078	924 S Rancho Santa Fe Rd, Ste. F San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 40 San Marcos, CA 92078	924 S Rancho Santa Fe Rd, Ste. G San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 400 San Marcos, CA 92078	924 S Rancho Santa Fe Rd, Ste. H San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 401 San Marcos, CA 92078	925 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 402 San Marcos, CA 92078	925 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 403 San Marcos, CA 92078	926 La Sombra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 404 San Marcos, CA 92078	926 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 405 San Marcos, CA 92078	927 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 405a San Marcos, CA 92078	927 Tularosa Ln San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 406 San Marcos, CA 92078	928 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 407 San Marcos, CA 92078	928 Richard Rd San Marcos, CA 92069
1930 W San Marcos Blvd, Ste. 408 San Marcos, CA 92078	928 Tularosa Ln San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 409 San Marcos, CA 92078	929 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 41 San Marcos, CA 92078	929 Tularosa Ln San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 410 San Marcos, CA 92078	930 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 411 San Marcos, CA 92078	930 Tularosa Ln San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 412 San Marcos, CA 92078	931 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 413 San Marcos, CA 92078	931 Tularosa Ln San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 414 San Marcos, CA 92078	932 La Sombra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 415 San Marcos, CA 92078	932 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 416 San Marcos, CA 92078	932 Tucana Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 417 San Marcos, CA 92078	932 West Ranch Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 418 San Marcos, CA 92078	9324 Shadow Pinar Ct Orlando, FL 32825
1930 W San Marcos Blvd, Ste. 419 San Marcos, CA 92078	933 Tularosa Ln San Marcos, CA 92078

600' NOTIFICATION LIST

1930 W San Marcos Blvd, Ste. 42 San Marcos, CA 92078	933 W Ranch Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 420 San Marcos, CA 92078	933 West Ranch Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 421 San Marcos, CA 92078	934 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 422 San Marcos, CA 92078	935 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 423 San Marcos, CA 92078	935 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 424 San Marcos, CA 92078	935 Tularosa Ln San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 425 San Marcos, CA 92078	935 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 426 San Marcos, CA 92078	937 San Pablo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 427 San Marcos, CA 92078	937 Tularosa Ln San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 428 San Marcos, CA 92078	938 La Sombra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 429 San Marcos, CA 92078	938 West Ranch Rd San Diego, CA 92078
1930 W San Marcos Blvd, Ste. 43 San Marcos, CA 92078	938 West Ranch Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 430 San Marcos, CA 92078	939 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 431 San Marcos, CA 92078	939 W Ranch Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 432 San Marcos, CA 92078	940 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 433 San Marcos, CA 92078	940 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 434 San Marcos, CA 92078	9405 Arrowpoint Blvd Charlotte NC 28273
1930 W San Marcos Blvd, Ste. 435 San Marcos, CA 92078	941 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 436 San Marcos, CA 92078	941 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 436a San Marcos, CA 92078	9421 Haven Ave Rancho Cucamonga, CA 91730
1930 W San Marcos Blvd, Ste. 437 San Marcos, CA 92078	9423 Reseda Blvd #545 Northridge, CA 91324
1930 W San Marcos Blvd, Ste. 438 San Marcos, CA 92078	943 Andreasen Dr Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 439 San Marcos, CA 92078	943 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 44 San Marcos, CA 92078	943 S Andreasen Dr Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 440 San Marcos, CA 92078	943 San Pablo Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 441 San Marcos, CA 92078	944 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 442 San Marcos, CA 92078	944 La Sombra Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 443 San Marcos, CA 92078	944 West Ranch Rd San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 444 San Marcos, CA 92078	945 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 445 San Marcos, CA 92078	945 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 446 San Marcos, CA 92078	945 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 446a San Marcos, CA 92078	946 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 447 San Marcos, CA 92078	946 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 448 San Marcos, CA 92078	947 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 449 San Marcos, CA 92078	947 San Pablo Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 45 San Marcos, CA 92078	948 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 450 San Marcos, CA 92078	949 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 451 San Marcos, CA 92078	950 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 452 San Marcos, CA 92078	951 San Pablo Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 453 San Marcos, CA 92078	952 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 454 San Marcos, CA 92078	954 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 455 San Marcos, CA 92078	954 Hawthorne Ct San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 457 San Marcos, CA 92078	9541 Vervain St San Diego, CA 92129
1930 W San Marcos Blvd, Ste. 458 San Marcos, CA 92078	955 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 459 San Marcos, CA 92078	955 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 46 San Marcos, CA 92078	956 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 460 San Marcos, CA 92078	957 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 47 San Marcos, CA 92078	958 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 48 San Marcos, CA 92078	958 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 49 San Marcos, CA 92078	960 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 50 San Marcos, CA 92078	960 Lake Ridge Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 51 San Marcos, CA 92078	961 S Santa Fe Ave Vista, CA 92083
1930 W San Marcos Blvd, Ste. 52 San Marcos, CA 92078	962 Avalon Way San Marcos, CA 92078

600' NOTIFICATION LIST

1930 W San Marcos Blvd, Ste. 53 San Marcos, CA 92078	963 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 54 San Marcos, CA 92078	963 Honeysuckle Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 55 San Marcos, CA 92078	964 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 56 San Marcos, CA 92078	964 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 57 San Marcos, CA 92078	965 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 58 San Marcos, CA 92078	966 Hawthorne Ct San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 59 San Marcos, CA 92078	9665 Chesapeake Dr #300 San Diego, CA 92123
1930 W San Marcos Blvd, Ste. 60 San Marcos, CA 92078	967 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 61 San Marcos, CA 92078	968 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 62 San Marcos, CA 92078	970 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 63 San Marcos, CA 92078	970 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 64 San Marcos, CA 92078	970 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 65 San Marcos, CA 92078	971 Avalon Way San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 66 San Marcos, CA 92078	971 Baylor Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 67 San Marcos, CA 92078	975 Baylor Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 68 San Marcos, CA 92078	975 S Andreasen Dr Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 69 San Marcos, CA 92078	975 Viewpoint Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 70 San Marcos, CA 92078	976 Camino Del Arroyo Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 71 San Marcos, CA 92078	979 Baylor Dr San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 72 San Marcos, CA 92078	982 Camino Del Arroyo Dr, Ste. 49 San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 73 San Marcos, CA 92078	9853 Derby Way Parker Co 80134
1930 W San Marcos Blvd, Ste. 74 San Marcos, CA 92078	988 Andreasen Dr Escondido, CA 92029
1930 W San Marcos Blvd, Ste. 75 San Marcos, CA 92078	991 Wild Iris Ct San Marcos, CA 92078
1930 W San Marcos Blvd, Ste. 76 San Marcos, CA 92078	9965 Swath Ct San Diego, CA 92129
1930 W San Marcos Blvd, Ste. 77 San Marcos, CA 92078	P O Box 1085 Cardiff, CA 92007
1930 W San Marcos Blvd, Ste. 78 San Marcos, CA 92078	P O Box 1089 St Joseph Mo 64502
1930 W San Marcos Blvd, Ste. 79 San Marcos, CA 92078	P O Box 111 Escondido, CA 92033
1930 W San Marcos Blvd, Ste. 80 San Marcos, CA 92078	P O Box 1166 Kailua Kona, HI 96745
1930 W San Marcos Blvd, Ste. 81 San Marcos, CA 92078	P O Box 1194 San Marcos, CA 92079
1930 W San Marcos Blvd, Ste. 82 San Marcos, CA 92078	P O Box 12152 La Jolla, CA 92039
1930 W San Marcos Blvd, Ste. 83 San Marcos, CA 92078	P O Box 130067 Carlsbad, CA 92013
1930 W San Marcos Blvd, Ste. 84 San Marcos, CA 92078	P O Box 130668 Carlsbad, CA 92013
1930 W San Marcos Blvd, Ste. 85 San Marcos, CA 92078	P O Box 131082 Carlsbad, CA 92013
1930 W San Marcos Blvd, Ste. 86 San Marcos, CA 92078	P O Box 131446 Carlsbad, CA 92013
1930 W San Marcos Blvd, Ste. 87 San Marcos, CA 92078	P O Box 1442 Rancho Santa Fe, CA 92067
1930 W San Marcos Blvd, Ste. 88 San Marcos, CA 92078	P O Box 1474 Julian, CA 92036
1930 W San Marcos Blvd, Ste. 89 San Marcos, CA 92078	P O Box 150 Cardiff, CA 92007
1930 W San Marcos Blvd, Ste. 90 San Marcos, CA 92078	P O Box 1748 San Marcos, CA 92079
1930 W San Marcos Blvd, Ste. 92 San Marcos, CA 92078	P O Box 1872 Rancho Santa Fe, CA 92067
1930 W San Marcos Blvd, Ste. 93 San Marcos, CA 92078	P O Box 1971 Vista, CA 92085
1930 W San Marcos Blvd, Ste. 94 San Marcos, CA 92078	P O Box 2225 Valley Center, CA 92082
1930 W San Marcos Blvd, Ste. 95 San Marcos, CA 92078	P O Box 2228 La Jolla, CA 92038
1930 W San Marcos Blvd, Ste. 96 San Marcos, CA 92078	P O Box 231656 Encinitas, CA 92023
1930 W San Marcos Blvd, Ste. 97 San Marcos, CA 92078	P O Box 2321 La Mesa, CA 91943
1930 W San Marcos Blvd, Ste. 98 San Marcos, CA 92078	P O Box 234057 Encinitas, CA 92023
1930 W San Marcos Blvd, Ste. 99 San Marcos, CA 92078	P O Box 235588 Encinitas, CA 92023
1931 Commercial St Escondido, CA 92029	P O Box 2386 Carlsbad, CA 92018
1931 Don Lee Pl Escondido, CA 92029	P O Box 2495 San Marcos, CA 92079
1936 Commercial St Escondido, CA 92029	P O Box 2513 Del Mar, CA 92014
1940 Diamond St San Marcos, CA 92078	P O Box 2611 San Marcos, CA 92079
1941 Commercial St Escondido, CA 92029	P O Box 2729 Rancho Santa Fe, CA 92067
1943 Citracado Pkwy Escondido, CA 92029	P O Box 274 Valley Center, CA 92082
1944 Commercial St Escondido, CA 92029	P O Box 27599 San Diego, CA 92198

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1948 Citracado Pkwy Escondido, CA 92029	P O Box 300867 Escondido, CA 92030
1951 Citracado Pkwy Escondido, CA 92029	P O Box 3385 Yountville, CA 94599
1954 Citracado Pkwy Escondido, CA 92029	P O Box 3429 Rancho Santa Fe, CA 92067
1955 Citracado Pkwy Escondido, CA 92029	P O Box 388 Penn Valley, CA 95946
1959 Palomar Oaks Way #320 Carlsbad, CA 92011	P O Box 4 San Marcos, CA 92079
1960 Citracado Pkwy Escondido, CA 92029	P O Box 4050 Newport Beach, CA 92661
19605 Elfin Gln Escondido, CA 92029	P O Box 4067 Carlsbad, CA 92018
1970 Citracado Pkwy Escondido, CA 92029	P O Box 441 Solana Beach, CA 92075
1971 Falling Leaf Ct San Marcos, CA 92078	P O Box 460250 Escondido, CA 92046
1973 Falling Leaf Ct San Marcos, CA 92078	P O Box 460791 Escondido, CA 92046
1974 Acorn Rd San Marcos, CA 92078	P O Box 460877 Escondido, CA 92046
1975 Acorn Rd San Marcos, CA 92078	P O Box 461025 Escondido, CA 92046
1975 Citracado Pkwy Escondido, CA 92029	P O Box 462708 Escondido, CA 92046
1975 Falling Leaf Ct San Marcos, CA 92078	P O Box 462810 Escondido, CA 92046
1976 Acorn Rd San Marcos, CA 92078	P O Box 463051 Escondido, CA 92046
1977 Citracado Pkwy Escondido, CA 92029	P O Box 501975 San Diego, CA 92150
1977 Falling Leaf Ct San Marcos, CA 92078	P O Box 518 San Marcos, CA 92079
1978 Falling Leaf Ct San Marcos, CA 92078	P O Box 541 Solana Beach, CA 92075
1979 Acorn Rd San Marcos, CA 92078	P O Box 5762 El Monte, CA 91734
1980 Acorn Rd San Marcos, CA 92078	P O Box 658 Oceanside, CA 92049
1980 Falling Leaf Ct San Marcos, CA 92078	P O Box 711 Dallas, TX 75221
19800 Macarthur Blvd #700 Irvine, CA 92612	P O Box 717 Santa Ynez, CA 93460
1981 Acorn Rd San Marcos, CA 92078	P O Box 9 San Marcos, CA 92079
1982 Acorn Rd San Marcos, CA 92078	P O Box 910828 San Diego, CA 92191
1982 Falling Leaf Ct San Marcos, CA 92078	P O Box 921 San Marcos, CA 92079
1983 San Pablo Dr San Marcos, CA 92078	P O Box 924133 Houston, TX 77292
1984 Acorn Rd San Marcos, CA 92078	P O Box 93731 Phoenix, AZ 85070
1984 Falling Leaf Ct San Marcos, CA 92078	P O Box 9475 Rancho Santa Fe, CA 92067
1985 Acorn Rd San Marcos, CA 92078	P O Box 981173 West Sacramento, CA 95798
1986 White Oak Ct San Marcos, CA 92078	Pmb #535, P O Box 5000 Rancho Santa Fe, CA 92067

Appendix C
Air Quality, Greenhouse Gas, and Energy

C.1 Air Quality and Greenhouse Gas CalEEMod Outputs and Helicopter Criteria Pollutant and GHG calculations

C.2 Fuel Use Estimates

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C.1 Air Quality and Greenhouse Gas CalEEMod Outputs and Helicopter Criteria Pollutant and GHG Calculations

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SDG&E TL 6975 Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Overall construction schedule (December 2019 - November 2020) and general phases provided by client; schedule was prepared based on total number of work days with assumptions regarding schedule overlaps.

Off-road Equipment -

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; mower assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; pressure digger is substituted by bore/drill rig.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; pressure digger is substituted by bore/drill rig.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; pressure digger is substituted by bore/drill rig.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks.

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Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; double-bullwheel and drum puller assumed to be "other construction equipment."

Off-road Equipment - Construction eqiupment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; double-bullwheel and drum puller assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; double-bullwheel and drum puller assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; wire dolly and pulling rig assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; mower assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; mower assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; mower assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hourse/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; ditch witch substituted with a trencher.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; ditch witch substituted with a trencher.

Off-road Equipment - Construction equipment, unit amount, house/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; ditch witch substituted with a trencher.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks.

Off-road Equipment - Project specific information

Off-road Equipment - Project specific construction information

Off-road Equipment - Project specific construction information

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Off-road Equipment - Project specific construction information
Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Based on information provided by client. All delivery trips accounted for with haul truck trips, using default trip lenghts of 20 miles.

On-road Fugitive Dust - Assumes 5% of vehicle travel would be on unpaved roads, with a mean vehicle speed of 15mph.

Grading - Acres to be graded based on data from project description and assumptions based on work areas for poles.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	0.00	15.00
tblConstructionPhase	NumDays	0.00	15.00
tblConstructionPhase	NumDays	0.00	28.00
tblConstructionPhase	NumDays	0.00	48.00
tblConstructionPhase	NumDays	0.00	77.00
tblConstructionPhase	NumDays	0.00	39.00
tblConstructionPhase	NumDays	0.00	31.00
tblConstructionPhase	NumDays	0.00	31.00
tblConstructionPhase	NumDays	0.00	15.00
tblConstructionPhase	NumDays	0.00	98.00
tblConstructionPhase	NumDays	0.00	77.00
tblConstructionPhase	NumDays	0.00	2.00
tblConstructionPhase	NumDays	0.00	68.00
tblConstructionPhase	NumDays	0.00	55.00

tblConstructionPhase	NumDays	0.00	75.00
tblConstructionPhase	NumDays	0.00	11.00
tblConstructionPhase	NumDays	0.00	11.00
tblConstructionPhase	NumDays	0.00	18.00
tblConstructionPhase	NumDays	0.00	15.00
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tblConstructionPhase	NumDays	0.00	33.00
tblConstructionPhase	NumDays	0.00	45.00
tblConstructionPhase	NumDays	0.00	33.00
tblConstructionPhase	NumDays	0.00	63.00
tblConstructionPhase	NumDays	0.00	33.00
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tblGrading	AcresOfGrading	0.00	0.06
tblGrading	AcresOfGrading	0.00	0.04
tblGrading	AcresOfGrading	0.00	0.32
tblGrading	AcresOfGrading	0.00	0.10
tblGrading	AcresOfGrading	0.00	1.85
tblGrading	AcresOfGrading	0.00	0.01
tblGrading	AcresOfGrading	0.00	0.64
tblGrading	AcresOfGrading	0.00	0.25
tblGrading	AcresOfGrading	0.00	0.53
tblGrading	AcresOfGrading	0.00	0.32
tblGrading	AcresOfGrading	0.00	0.76
tblGrading	AcresOfGrading	18.75	2.84
tblGrading	AcresOfGrading	8.50	0.00

tblGrading	AcresOfGrading	0.00	0.23
tblGrading	AcresOfGrading	11.25	0.00
tblGrading	AcresOfGrading	8.25	0.00
tblGrading	AcresOfGrading	23.63	2.85
tblGrading	MaterialExported	0.00	1,403.00
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tblGrading	MaterialImported	0.00	3,063.00
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tblOffRoadEquipment	PhaseName		05.1 Foundation Construction (Pier) - Seg 1
tblOffRoadEquipment	PhaseName		05.1 Foundation Construction (Pier) - Seg 1
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tblOffRoadEquipment	UsageHours	6.00	4.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00
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tblOnRoadDust	HaulingPercentPave	100.00	95.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00

tblOnRoadDust	HaulingPercentPave	100.00	95.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00
tblOnRoadDust	HaulingPercentPave	100.00	95.00
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tblOnRoadDust	HaulingPercentPave	100.00	95.00
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tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00

tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
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tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	MeanVehicleSpeed	40.00	15.00
tblOnRoadDust	WorkerPercentPave	100.00	95.00
tblOnRoadDust	WorkerPercentPave	100.00	95.00
tblOnRoadDust	WorkerPercentPave	100.00	95.00
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tblOnRoadDust	WorkerPercentPave	100.00	95.00
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tblOnRoadDust	WorkerPercentPave	100.00	95.00
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tblOnRoadDust	WorkerPercentPave	100.00	95.00
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tblOnRoadDust	WorkerPercentPave	100.00	95.00
tblOnRoadDust	WorkerPercentPave	100.00	95.00
tblOnRoadDust	WorkerPercentPave	100.00	95.00
tblOnRoadDust	WorkerPercentPave	100.00	95.00
tblOnRoadDust	WorkerPercentPave	100.00	95.00

tblOnRoadDust	WorkerPercentPave	100.00	95.00
tblOnRoadDust	WorkerPercentPave	100.00	95.00
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tblTripsAndVMT	HaulingTripNumber	0.00	2.00
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tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
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tblTripsAndVMT	HaulingTripNumber	0.00	2.00
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tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00

tblTripsAndVMT	WorkerTripNumber	10.00	0.00
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tblTripsAndVMT	WorkerTripNumber	43.00	20.00
tblTripsAndVMT	WorkerTripNumber	35.00	20.00
tblTripsAndVMT	WorkerTripNumber	25.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	34.00
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tblTripsAndVMT	WorkerTripNumber	35.00	20.00
tblTripsAndVMT	WorkerTripNumber	25.00	20.00
tblTripsAndVMT	WorkerTripNumber	28.00	20.00
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tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	25.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	34.00
tblTripsAndVMT	WorkerTripNumber	28.00	20.00
tblTripsAndVMT	WorkerTripNumber	35.00	20.00
tblTripsAndVMT	WorkerTripNumber	25.00	20.00
tblTripsAndVMT	WorkerTripNumber	28.00	20.00
tblTripsAndVMT	WorkerTripNumber	25.00	20.00
tblTripsAndVMT	WorkerTripNumber	25.00	20.00

tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	3.1400e-003	0.0301	0.0188	4.0000e-005	0.0429	1.4500e-003	0.0444	4.3900e-003	1.3400e-003	5.7300e-003	0.0000	3.7657	3.7657	1.1000e-003	0.0000	3.7933
2020	1.1718	10.9711	7.2062	0.0205	3.3148	0.4651	3.7799	0.3417	0.4306	0.7723	0.0000	1,798.3419	1,798.3419	0.5375	0.0000	1,811.7802
Maximum	**1.1718**	**10.9711**	**7.2062**	**0.0205**	**3.3148**	**0.4651**	**3.7799**	**0.3417**	**0.4306**	**0.7723**	**0.0000**	**1,798.3419**	**1,798.3419**	**0.5375**	**0.0000**	**1,811.7802**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	3.1400e-003	0.0301	0.0188	4.0000e-005	0.0429	1.4500e-003	0.0444	4.3900e-003	1.3400e-003	5.7200e-003	0.0000	3.7657	3.7657	1.1000e-003	0.0000	3.7933
2020	1.1718	10.9711	7.2061	0.0205	3.3148	0.4651	3.7799	0.3417	0.4306	0.7723	0.0000	1,798.3398	1,798.3398	0.5375	0.0000	1,811.7782
Maximum	**1.1718**	**10.9711**	**7.2061**	**0.0205**	**3.3148**	**0.4651**	**3.7799**	**0.3417**	**0.4306**	**0.7723**	**0.0000**	**1,798.3398**	**1,798.3398**	**0.5375**	**0.0000**	**1,811.7782**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-30-2019	3-29-2020	3.9785	3.9785
2	3-30-2020	6-29-2020	5.0202	5.0202
3	6-30-2020	9-29-2020	2.5831	2.5831
		Highest	5.0202	5.0202

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/30/2019	12/29/2019	5	0	
2	Site Preparation	Site Preparation	12/30/2019	12/29/2019	5	0	
3	01 Pre-Construction Activities	Grading	12/30/2019	2/7/2020	5	30	

4	Grading	Grading	12/30/2019	12/29/2019	5	0
5	Building Construction	Building Construction	12/30/2019	12/29/2019	5	0
6	Paving	Paving	12/30/2019	12/29/2019	5	0
7	Architectural Coating	Architectural Coating	12/30/2019	12/29/2019	5	0
8	02 Access Road Construction/Refreshing	Grading	1/21/2020	4/16/2020	5	63
9	03 Material Haul	Grading	1/21/2020	3/5/2020	5	33
10	04.1 Auger Holes, Direct Bury Poles - Seg 1	Grading	1/21/2020	2/27/2020	5	28
11	05.1 Foundation Construction (Pier) - Seg 1	Grading	1/21/2020	3/26/2020	5	48
12	11 AC Interference Mitigation System Installation	Grading	2/1/2020	5/19/2020	5	77
13	12.1 Micropile Foundation Construction	Grading	2/1/2020	3/26/2020	5	39
14	04.2 Auger Holes, Direct Bury Poles - Seg 2	Grading	2/28/2020	4/10/2020	5	31
15	06.1 Structure Installation and Assembly - Seg 1	Grading	2/28/2020	4/10/2020	5	31
16	10.1 Substation Work (San Marcos) below grade	Grading	2/28/2020	3/19/2020	5	15
17	08 Trenching for Installation of Undergound Cables	Grading	3/2/2020	7/15/2020	5	98
18	10.2 Substation Work (San Marcos) above grade	Building Construction	3/20/2020	4/9/2020	5	15
19	05.2 Foundation Construction (Pier) - Seg 2	Grading	3/27/2020	7/13/2020	5	77
20	04.3 Auger Holes, Direct Bury Poles - Seg 3	Grading	4/10/2020	4/13/2020	5	2
21	06.2 Structure Installation and Assembly - Seg 2	Grading	4/13/2020	7/15/2020	5	68
22	07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Grading	4/13/2020	6/26/2020	5	55
23	12.2 Micropile Foundation Construction	Grading	5/1/2020	8/13/2020	5	75
24	12.3 Micropile Foundation Construction	Grading	5/1/2020	5/15/2020	5	11
25	05.3 Foundation Construction (Pier) - Seg 3	Grading	6/1/2020	6/15/2020	5	11

26	06.3 Structure Installation and Assembly - Seg 3	Grading	6/8/2020	7/1/2020	5	18	
27	10.3 Substation Work (Escondido) below grade	Grading	6/8/2020	6/26/2020	5	15	
28	10.4 Substation Work (Escondido) above grade	Building Construction	6/27/2020	7/17/2020	5	15	
29	07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Grading	6/29/2020	8/12/2020	5	33	
30	09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Grading	6/29/2020	8/13/2020	5	34	
31	07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Grading	8/13/2020	9/28/2020	5	33	
32	09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Grading	8/14/2020	10/15/2020	5	45	
33	09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Grading	9/29/2020	11/12/2020	5	33	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
01 Pre-Construction Activities	Concrete/Industrial Saws	0	8.00	81	0.73
01 Pre-Construction Activities	Excavators	2	3.00	162	0.38
01 Pre-Construction Activities	Graders	2	5.00	174	0.41
01 Pre-Construction Activities	Off-Highway Trucks	2	3.00	250	0.38
01 Pre-Construction Activities	Off-Highway Trucks	2	4.00	250	0.38
01 Pre-Construction Activities	Off-Highway Trucks	1	4.00	250	0.38

01 Pre-Construction Activities	Other Construction Equipment	2	4.00	74	0.42
01 Pre-Construction Activities	Rubber Tired Dozers	0	1.00	247	0.40
01 Pre-Construction Activities	Tractors/Loaders/Backhoes	2	4.00	37	0.37
01 Pre-Construction Activities	Tractors/Loaders/Backhoes	1	4.00	250	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
02 Access Road Construction/Refreshing	Concrete/Industrial Saws	0	8.00	81	0.73
02 Access Road Construction/Refreshing	Graders	1	6.00	174	0.41
02 Access Road Construction/Refreshing	Off-Highway Tractors	1	4.00	250	0.44
02 Access Road Construction/Refreshing	Off-Highway Trucks	2	5.00	250	0.38
02 Access Road Construction/Refreshing	Rubber Tired Dozers	0	1.00	247	0.40
02 Access Road Construction/Refreshing	Tractors/Loaders/Backhoes	0	6.00	97	0.37

03 Material Haul	Concrete/Industrial Saws	0	8.00	81	0.73
03 Material Haul	Cranes	2	4.00	250	0.29
03 Material Haul	Forklifts	2	4.00	83	0.20
03 Material Haul	Rubber Tired Dozers	0	1.00	247	0.40
03 Material Haul	Tractors/Loaders/Backhoes	0	6.00	97	0.37
04.1 Auger Holes, Direct Bury Poles - Seg 1	Air Compressors	2	4.00	78	0.48
04.1 Auger Holes, Direct Bury Poles - Seg 1	Bore/Drill Rigs	2	6.00	82	0.50
04.1 Auger Holes, Direct Bury Poles - Seg 1	Bore/Drill Rigs	1	4.00	82	0.50
04.1 Auger Holes, Direct Bury Poles - Seg 1	Concrete/Industrial Saws	0	8.00	81	0.73
04.1 Auger Holes, Direct Bury Poles - Seg 1	Off-Highway Trucks	2	6.00	250	0.38
04.1 Auger Holes, Direct Bury Poles - Seg 1	Off-Highway Trucks	2	5.00	250	0.38
04.1 Auger Holes, Direct Bury Poles - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
04.1 Auger Holes, Direct Bury Poles - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
04.1 Auger Holes, Direct Bury Poles - Seg 1	Rubber Tired Dozers	0	1.00	247	0.40
04.1 Auger Holes, Direct Bury Poles - Seg 1	Tractors/Loaders/Backhoes	1	3.00	250	0.37
05.1 Foundation Construction (Pier) - Seg 1	Air Compressors	1	4.00	78	0.48
05.1 Foundation Construction (Pier) - Seg 1	Bore/Drill Rigs	1	7.00	82	0.50
05.1 Foundation Construction (Pier) - Seg 1	Concrete/Industrial Saws	0	8.00	81	0.73
05.1 Foundation Construction (Pier) - Seg 1	Excavators	1	4.00	162	0.38
05.1 Foundation Construction (Pier) - Seg 1	Forklifts	1	3.00	83	0.20
05.1 Foundation Construction (Pier) - Seg 1	Generator Sets	1	3.00	84	0.74
05.1 Foundation Construction (Pier) - Seg 1	Off-Highway Trucks	1	3.00	250	0.38
05.1 Foundation Construction (Pier) - Seg 1	Off-Highway Trucks	1	4.00	250	0.38

05.1 Foundation Construction (Pier) - Seg 1	Off-Highway Trucks	1	3.00	250	0.38
05.1 Foundation Construction (Pier) - Seg 1	Rubber Tired Dozers	0	1.00	247	0.40
05.1 Foundation Construction (Pier) - Seg 1	Tractors/Loaders/Backhoes	1	3.00	37	0.37
11 AC Interference Mitigation System Installation	Bore/Drill Rigs	1	8.00	500	0.50
11 AC Interference Mitigation System Installation	Off-Highway Trucks	1	4.00	430	0.38
11 AC Interference Mitigation System Installation	Off-Highway Trucks	1	6.00	550	0.38
11 AC Interference Mitigation System Installation	Off-Highway Trucks	1	8.00	550	0.38
11 AC Interference Mitigation System Installation	Off-Highway Trucks	1	4.00	310	0.38
11 AC Interference Mitigation System Installation	Other General Industrial Equipment	1	6.00	74	0.34
11 AC Interference Mitigation System Installation	Tractors/Loaders/Backhoes	1	2.00	300	0.37
04.2 Auger Holes, Direct Bury Poles - Seg 2	Air Compressors	2	4.00	78	0.48
04.2 Auger Holes, Direct Bury Poles - Seg 2	Bore/Drill Rigs	2	6.00	82	0.50
04.2 Auger Holes, Direct Bury Poles - Seg 2	Bore/Drill Rigs	1	4.00	82	0.50
04.2 Auger Holes, Direct Bury Poles - Seg 2	Concrete/Industrial Saws	0	8.00	81	0.73
04.2 Auger Holes, Direct Bury Poles - Seg 2	Off-Highway Trucks	2	6.00	250	0.38
04.2 Auger Holes, Direct Bury Poles - Seg 2	Off-Highway Trucks	2	5.00	250	0.38
04.2 Auger Holes, Direct Bury Poles - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
04.2 Auger Holes, Direct Bury Poles - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
04.2 Auger Holes, Direct Bury Poles - Seg 2	Rubber Tired Dozers	0	1.00	247	0.40
04.2 Auger Holes, Direct Bury Poles - Seg 2	Tractors/Loaders/Backhoes	1	3.00	250	0.37
06.1 Structure Installation and Assembly - Seg 1	Concrete/Industrial Saws	0	8.00	81	0.73
06.1 Structure Installation and Assembly - Seg 1	Off-Highway Trucks	2	4.00	250	0.38

06.1 Structure Installation and Assembly - Seg 1	Off-Highway Trucks	3	6.00	250	0.38
06.1 Structure Installation and Assembly - Seg 1	Off-Highway Trucks	2	5.00	250	0.38
06.1 Structure Installation and Assembly - Seg 1	Off-Highway Trucks	3	6.00	250	0.38
06.1 Structure Installation and Assembly - Seg 1	Rubber Tired Dozers	0	1.00	247	0.40
06.1 Structure Installation and Assembly - Seg 1	Tractors/Loaders/Backhoes	0	6.00	97	0.37
10.1 Substation Work (San Marcos) below grade	Bore/Drill Rigs	1	4.00	250	0.50
10.1 Substation Work (San Marcos) below grade	Concrete/Industrial Saws	0	8.00	81	0.73
10.1 Substation Work (San Marcos) below grade	Off-Highway Trucks	1	1.00	250	0.38
10.1 Substation Work (San Marcos) below grade	Off-Highway Trucks	1	4.00	250	0.38
10.1 Substation Work (San Marcos) below grade	Rubber Tired Dozers	0	1.00	247	0.40
10.1 Substation Work (San Marcos) below grade	Tractors/Loaders/Backhoes	0	6.00	97	0.37
10.1 Substation Work (San Marcos) below grade	Trenchers	1	3.00	250	0.50
08 Trenching for Installation of Undergound Cables	Concrete/Industrial Saws	0	8.00	81	0.73
08 Trenching for Installation of Undergound Cables	Cranes	1	4.00	226	0.29
08 Trenching for Installation of Undergound Cables	Off-Highway Tractors	1	3.00	250	0.44
08 Trenching for Installation of Undergound Cables	Off-Highway Trucks	2	3.00	400	0.38
08 Trenching for Installation of Undergound Cables	Off-Highway Trucks	1	3.00	250	0.38
08 Trenching for Installation of Undergound Cables	Off-Highway Trucks	1	4.00	250	0.38
08 Trenching for Installation of Undergound Cables	Other Construction Equipment	1	3.00	82	0.42
08 Trenching for Installation of Undergound Cables	Other Construction Equipment	1	4.00	82	0.42
08 Trenching for Installation of Undergound Cables	Rubber Tired Dozers	0	1.00	247	0.40
08 Trenching for Installation of Undergound Cables	Tractors/Loaders/Backhoes	1	3.00	97	0.37

10.2 Substation Work (San Marcos) above grade	Cranes	0	4.00	231	0.29
10.2 Substation Work (San Marcos) above grade	Forklifts	0	6.00	89	0.20
10.2 Substation Work (San Marcos) above grade	Off-Highway Tractors	1	1.00	250	0.44
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	2	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Tractors/Loaders/Backhoes	0	8.00	97	0.37
05.2 Foundation Construction (Pier) - Seg 2	Air Compressors	1	4.00	78	0.48
05.2 Foundation Construction (Pier) - Seg 2	Bore/Drill Rigs	1	7.00	82	0.50
05.2 Foundation Construction (Pier) - Seg 2	Concrete/Industrial Saws	0	8.00	81	0.73
05.2 Foundation Construction (Pier) - Seg 2	Excavators	1	4.00	162	0.38
05.2 Foundation Construction (Pier) - Seg 2	Forklifts	1	3.00	83	0.20
05.2 Foundation Construction (Pier) - Seg 2	Generator Sets	1	3.00	84	0.74
05.2 Foundation Construction (Pier) - Seg 2	Off-Highway Trucks	1	3.00	250	0.38
05.2 Foundation Construction (Pier) - Seg 2	Off-Highway Trucks	1	4.00	250	0.38

05.2 Foundation Construction (Pier) - Seg 2	Off-Highway Trucks	1	3.00	250	0.38
05.2 Foundation Construction (Pier) - Seg 2	Rubber Tired Dozers	0	1.00	247	0.40
05.2 Foundation Construction (Pier) - Seg 2	Tractors/Loaders/Backhoes	1	3.00	37	0.37
04.3 Auger Holes, Direct Bury Poles - Seg 3	Air Compressors	2	4.00	78	0.48
04.3 Auger Holes, Direct Bury Poles - Seg 3	Bore/Drill Rigs	2	6.00	82	0.50
04.3 Auger Holes, Direct Bury Poles - Seg 3	Bore/Drill Rigs	1	4.00	82	0.50
04.3 Auger Holes, Direct Bury Poles - Seg 3	Concrete/Industrial Saws	0	8.00	81	0.73
04.3 Auger Holes, Direct Bury Poles - Seg 3	Off-Highway Trucks	2	6.00	250	0.38
04.3 Auger Holes, Direct Bury Poles - Seg 3	Off-Highway Trucks	2	5.00	250	0.38
04.3 Auger Holes, Direct Bury Poles - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
04.3 Auger Holes, Direct Bury Poles - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
04.3 Auger Holes, Direct Bury Poles - Seg 3	Rubber Tired Dozers	0	1.00	247	0.40
04.3 Auger Holes, Direct Bury Poles - Seg 3	Tractors/Loaders/Backhoes	1	3.00	250	0.37
06.2 Structure Installation and Assembly - Seg 2	Concrete/Industrial Saws	0	8.00	81	0.73
06.2 Structure Installation and Assembly - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
06.2 Structure Installation and Assembly - Seg 2	Off-Highway Trucks	3	6.00	250	0.38
06.2 Structure Installation and Assembly - Seg 2	Off-Highway Trucks	2	5.00	250	0.38
06.2 Structure Installation and Assembly - Seg 2	Off-Highway Trucks	3	6.00	250	0.38
06.2 Structure Installation and Assembly - Seg 2	Rubber Tired Dozers	0	1.00	247	0.40
06.2 Structure Installation and Assembly - Seg 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Concrete/Industrial Saws	0	8.00	81	0.73
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Forklifts	1	3.00	83	0.20

07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Off-Highway Trucks	2	6.00	250	0.38
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Off-Highway Trucks	1	4.00	250	0.38
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Off-Highway Trucks	1	5.00	82	0.44
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Other Construction Equipment	1	6.00	300	0.42
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Other Construction Equipment	1	6.00	300	0.42
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Rubber Tired Dozers	0	1.00	247	0.40
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Tractors/Loaders/Backhoes	0	6.00	97	0.37
05.3 Foundation Construction (Pier) - Seg 3	Air Compressors	1	4.00	78	0.48
05.3 Foundation Construction (Pier) - Seg 3	Bore/Drill Rigs	1	7.00	82	0.50
05.3 Foundation Construction (Pier) - Seg 3	Concrete/Industrial Saws	0	8.00	81	0.73
05.3 Foundation Construction (Pier) - Seg 3	Excavators	1	4.00	162	0.38
05.3 Foundation Construction (Pier) - Seg 3	Forklifts	1	3.00	83	0.20
05.3 Foundation Construction (Pier) - Seg 3	Generator Sets	1	3.00	84	0.74
05.3 Foundation Construction (Pier) - Seg 3	Off-Highway Trucks	1	3.00	250	0.38
05.3 Foundation Construction (Pier) - Seg 3	Off-Highway Trucks	1	4.00	250	0.38
05.3 Foundation Construction (Pier) - Seg 3	Off-Highway Trucks	1	3.00	250	0.38
05.3 Foundation Construction (Pier) - Seg 3	Rubber Tired Dozers	0	1.00	247	0.40
05.3 Foundation Construction (Pier) - Seg 3	Tractors/Loaders/Backhoes	1	3.00	37	0.37
06.3 Structure Installation and Assembly - Seg 3	Concrete/Industrial Saws	0	8.00	81	0.73
06.3 Structure Installation and Assembly - Seg 3	Off-Highway Trucks	2	4.00	250	0.38

06.3 Structure Installation and Assembly - Seg 3	Off-Highway Trucks	3	6.00	250	0.38
06.3 Structure Installation and Assembly - Seg 3	Off-Highway Trucks	2	5.00	250	0.38
06.3 Structure Installation and Assembly - Seg 3	Off-Highway Trucks	3	6.00	250	0.38
06.3 Structure Installation and Assembly - Seg 3	Rubber Tired Dozers	0	1.00	247	0.40
06.3 Structure Installation and Assembly - Seg 3	Tractors/Loaders/Backhoes	0	6.00	97	0.37
10.3 Substation Work (Escondido) below grade	Bore/Drill Rigs	1	4.00	250	0.50
10.3 Substation Work (Escondido) below grade	Concrete/Industrial Saws	0	8.00	81	0.73
10.3 Substation Work (Escondido) below grade	Off-Highway Trucks	1	1.00	250	0.38
10.3 Substation Work (Escondido) below grade	Off-Highway Trucks	1	4.00	250	0.38
10.3 Substation Work (Escondido) below grade	Rubber Tired Dozers	0	1.00	247	0.40
10.3 Substation Work (Escondido) below grade	Tractors/Loaders/Backhoes	0	6.00	97	0.37
10.3 Substation Work (Escondido) below grade	Trenchers	1	3.00	250	0.50
10.4 Substation Work (Escondido) above grade	Cranes	0	4.00	231	0.29
10.4 Substation Work (Escondido) above grade	Forklifts	0	6.00	89	0.20
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	3.00	250	0.38

10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	2	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Tractors/Loaders/Backhoes	0	8.00	97	0.37
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Concrete/Industrial Saws	0	8.00	81	0.73
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Forklifts	1	3.00	83	0.20
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Off-Highway Trucks	2	6.00	250	0.38
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Off-Highway Trucks	1	4.00	250	0.38
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Off-Highway Trucks	1	5.00	82	0.38
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Other Construction Equipment	1	6.00	300	0.42
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Other Construction Equipment	1	6.00	300	0.42
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Rubber Tired Dozers	0	1.00	247	0.40
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Concrete/Industrial Saws	0	8.00	81	0.73
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Excavators	1	4.00	162	0.38
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Graders	1	4.00	174	0.41
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Off-Highway Trucks	1	5.00	400	0.38
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Off-Highway Trucks	1	4.00	250	0.38
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Other Construction Equipment	1	4.00	74	0.42

09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Rubber Tired Dozers	0	1.00	247	0.40
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Tractors/Loaders/Backhoes	1	4.00	97	0.37
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Tractors/Loaders/Backhoes	1	4.00	37	0.37
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Tractors/Loaders/Backhoes	1	4.00	250	0.37
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Concrete/Industrial Saws	0	8.00	81	0.73
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Forklifts	1	3.00	83	0.20
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Off-Highway Trucks	2	6.00	250	0.38
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Off-Highway Trucks	1	4.00	250	0.38
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Off-Highway Trucks	1	5.00	82	0.38
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Other Construction Equipment	1	6.00	300	0.42
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Other Construction Equipment	1	6.00	300	0.42
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Rubber Tired Dozers	0	1.00	247	0.40
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Tractors/Loaders/Backhoes	0	6.00	97	0.37
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Concrete/Industrial Saws	0	8.00	81	0.73
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Excavators	1	4.00	162	0.38
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Graders	1	4.00	174	0.41
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Off-Highway Trucks	1	5.00	400	0.38
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Off-Highway Trucks	1	4.00	250	0.38
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Other Construction Equipment	1	4.00	74	0.42

09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Rubber Tired Dozers	0	1.00	247	0.40
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Tractors/Loaders/Backhoes	1	4.00	97	0.37
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Tractors/Loaders/Backhoes	1	4.00	37	0.37
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Tractors/Loaders/Backhoes	1	4.00	250	0.37
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Concrete/Industrial Saws	0	8.00	81	0.73
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Excavators	1	4.00	162	0.38
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Graders	1	4.00	174	0.41
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Off-Highway Trucks	1	5.00	400	0.38
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Off-Highway Trucks	1	4.00	250	0.38
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Other Construction Equipment	1	4.00	74	0.42
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Rubber Tired Dozers	0	1.00	247	0.40
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Tractors/Loaders/Backhoes	1	4.00	97	0.37
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Tractors/Loaders/Backhoes	1	4.00	37	0.37
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Tractors/Loaders/Backhoes	1	4.00	250	0.37
12.1 Micropile Foundation Construction	Air Compressors	2	3.00	78	0.48
12.1 Micropile Foundation Construction	Cranes	2	3.00	226	0.29
12.1 Micropile Foundation Construction	Forklifts	2	3.00	83	0.20
12.1 Micropile Foundation Construction	Generator Sets	2	4.00	84	0.74
12.1 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.1 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.1 Micropile Foundation Construction	Off-Highway Trucks	1	3.00	250	0.38
12.1 Micropile Foundation Construction	Off-Highway Trucks	1	4.00	250	0.38
12.1 Micropile Foundation Construction	Other General Industrial Equipment	1	3.00	84	0.34

12.1 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	97	0.37
12.1 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	250	0.37
12.2 Micropile Foundation Construction	Air Compressors	2	3.00	78	0.48
12.2 Micropile Foundation Construction	Cranes	2	3.00	226	0.29
12.2 Micropile Foundation Construction	Forklifts	2	3.00	83	0.20
12.2 Micropile Foundation Construction	Generator Sets	2	4.00	84	0.74
12.2 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.2 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.2 Micropile Foundation Construction	Off-Highway Trucks	1	3.00	250	0.38
12.2 Micropile Foundation Construction	Off-Highway Trucks	1	4.00	250	0.38
12.2 Micropile Foundation Construction	Other General Industrial Equipment	1	3.00	84	0.34
12.2 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	97	0.37
12.2 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	250	0.37
12.3 Micropile Foundation Construction	Air Compressors	2	3.00	78	0.48
12.3 Micropile Foundation Construction	Cranes	2	3.00	226	0.29
12.3 Micropile Foundation Construction	Forklifts	2	3.00	83	0.20
12.3 Micropile Foundation Construction	Generator Sets	2	4.00	84	0.74
12.3 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.3 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.3 Micropile Foundation Construction	Off-Highway Trucks	1	3.00	250	0.38
12.3 Micropile Foundation Construction	Off-Highway Trucks	1	4.00	250	0.38
12.3 Micropile Foundation Construction	Other General Industrial Equipment	1	3.00	84	0.34
12.3 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	97	0.37
12.3 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	250	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
01 Pre-Construction Activities	14	20.00	0.00	80.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
02 Access Road Construction/Refreshi	4	10.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
03 Material Haul	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
04.1 Auger Holes, Direct Bury Poles - Se	14	20.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
05.1 Foundation Construction (Pier) - S	9	10.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
04.2 Auger Holes, Direct Bury Poles - Se	14	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
06.1 Structure Installation and Assem	10	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
10.1 Substation Work (San Marcos) below gr	4	8.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
08 Trenching for Installation of Undergo	9	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
10.2 Substation Work (San Marcos) above g	12	34.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
05.2 Foundation Construction (Pier) - S	9	10.00	0.00	281.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
04.3 Auger Holes, Direct Bury Poles - Se	14	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
06.2 Structure Installation and Assem	10	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
07.1 Stringing Activities/Transfer Con	11	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
05.3 Foundation Construction (Pier) - S	9	10.00	0.00	61.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
06.3 Structure Installation and Assem	10	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
10.3 Substation Work (Escondido) below gra	4	8.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
10.4 Substation Work (Escondido) above gra	12	34.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
07.2 Stringing Activities/Transfer Con	11	20.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

09.1 Demobilization/ROW	10	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
07.3 Stringing Activities/Transfer Con	11	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
09.3 Demobilization/ROW	10	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
09.2 Demobilization/ROW	10	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
11 AC Interference Mitigation System Inst	7	8.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
12.1 Micropile Foundation Constructi	17	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
12.2 Micropile Foundation Constructi	17	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
12.3 Micropile Foundation Constructi	17	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 01 Pre-Construction Activities - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5100e-003	0.0000	1.5100e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0400e-003	0.0292	0.0181	4.0000e-005		1.4500e-003	1.4500e-003		1.3300e-003	1.3300e-003	0.0000	3.4082	3.4082	1.0800e-003	0.0000	3.4351
Total	**3.0400e-003**	**0.0292**	**0.0181**	**4.0000e-005**	**1.5100e-003**	**1.4500e-003**	**2.9600e-003**	**1.6000e-004**	**1.3300e-003**	**1.4900e-003**	**0.0000**	**3.4082**	**3.4082**	**1.0800e-003**	**0.0000**	**3.4351**

3.4 01 Pre-Construction Activities - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	8.2000e-004	1.8000e-004	0.0000	0.0326	0.0000	0.0326	3.3200e-003	0.0000	3.3200e-003	0.0000	0.2079	0.2079	2.0000e-005	0.0000	0.2084
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	5.9000e-004	0.0000	8.8200e-003	0.0000	8.8200e-003	9.0000e-004	0.0000	9.1000e-004	0.0000	0.1497	0.1497	0.0000	0.0000	0.1498
Total	**1.0000e-004**	**8.8000e-004**	**7.7000e-004**	**0.0000**	**0.0414**	**0.0000**	**0.0414**	**4.2200e-003**	**0.0000**	**4.2300e-003**	**0.0000**	**0.3576**	**0.3576**	**2.0000e-005**	**0.0000**	**0.3582**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5100e-003	0.0000	1.5100e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0400e-003	0.0292	0.0181	4.0000e-005		1.4500e-003	1.4500e-003		1.3300e-003	1.3300e-003	0.0000	3.4081	3.4081	1.0800e-003	0.0000	3.4351
Total	**3.0400e-003**	**0.0292**	**0.0181**	**4.0000e-005**	**1.5100e-003**	**1.4500e-003**	**2.9600e-003**	**1.6000e-004**	**1.3300e-003**	**1.4900e-003**	**0.0000**	**3.4081**	**3.4081**	**1.0800e-003**	**0.0000**	**3.4351**

3.4 01 Pre-Construction Activities - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	8.2000e-004	1.8000e-004	0.0000	0.0326	0.0000	0.0326	3.3200e-003	0.0000	3.3200e-003	0.0000	0.2079	0.2079	2.0000e-005	0.0000	0.2084
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	5.9000e-004	0.0000	8.8200e-003	0.0000	8.8200e-003	9.0000e-004	0.0000	9.1000e-004	0.0000	0.1497	0.1497	0.0000	0.0000	0.1498
Total	**1.0000e-004**	**8.8000e-004**	**7.7000e-004**	**0.0000**	**0.0414**	**0.0000**	**0.0414**	**4.2200e-003**	**0.0000**	**4.2300e-003**	**0.0000**	**0.3576**	**0.3576**	**2.0000e-005**	**0.0000**	**0.3582**

3.4 01 Pre-Construction Activities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5100e-003	0.0000	1.5100e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.3628	0.2477	5.3000e-004		0.0179	0.0179		0.0165	0.0165	0.0000	46.6889	46.6889	0.0151	0.0000	47.0664
Total	**0.0390**	**0.3628**	**0.2477**	**5.3000e-004**	**1.5100e-003**	**0.0179**	**0.0194**	**1.6000e-004**	**0.0165**	**0.0167**	**0.0000**	**46.6889**	**46.6889**	**0.0151**	**0.0000**	**47.0664**

3.4 01 Pre-Construction Activities - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	0.0106	2.4300e-003	3.0000e-005	0.0327	3.0000e-005	0.0328	3.3800e-003	3.0000e-005	3.4100e-003	0.0000	2.8793	2.8793	2.6000e-004	0.0000	2.8858
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.6000e-004	7.4900e-003	2.0000e-005	0.1235	2.0000e-005	0.1235	0.0127	1.0000e-005	0.0127	0.0000	2.0297	2.0297	6.0000e-005	0.0000	2.0312
Total	**1.3300e-003**	**0.0114**	**9.9200e-003**	**5.0000e-005**	**0.1562**	**5.0000e-005**	**0.1562**	**0.0160**	**4.0000e-005**	**0.0161**	**0.0000**	**4.9090**	**4.9090**	**3.2000e-004**	**0.0000**	**4.9170**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5100e-003	0.0000	1.5100e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.3628	0.2477	5.3000e-004		0.0179	0.0179		0.0165	0.0165	0.0000	46.6888	46.6888	0.0151	0.0000	47.0663
Total	**0.0390**	**0.3628**	**0.2477**	**5.3000e-004**	**1.5100e-003**	**0.0179**	**0.0194**	**1.6000e-004**	**0.0165**	**0.0167**	**0.0000**	**46.6888**	**46.6888**	**0.0151**	**0.0000**	**47.0663**

3.4 01 Pre-Construction Activities - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	0.0106	2.4300e-003	3.0000e-005	0.0327	3.0000e-005	0.0328	3.3800e-003	3.0000e-005	3.4100e-003	0.0000	2.8793	2.8793	2.6000e-004	0.0000	2.8858
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.6000e-004	7.4900e-003	2.0000e-005	0.1235	2.0000e-005	0.1235	0.0127	1.0000e-005	0.0127	0.0000	2.0297	2.0297	6.0000e-005	0.0000	2.0312
Total	**1.3300e-003**	**0.0114**	**9.9200e-003**	**5.0000e-005**	**0.1562**	**5.0000e-005**	**0.1562**	**0.0160**	**4.0000e-005**	**0.0161**	**0.0000**	**4.9090**	**4.9090**	**3.2000e-004**	**0.0000**	**4.9170**

3.5 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.9 02 Access Road Construction/Refreshing - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5100e-003	0.0000	1.5100e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0417	0.4085	0.2355	6.2000e-004		0.0183	0.0183		0.0168	0.0168	0.0000	54.0852	54.0852	0.0175	0.0000	54.5225
Total	**0.0417**	**0.4085**	**0.2355**	**6.2000e-004**	**1.5100e-003**	**0.0183**	**0.0198**	**1.6000e-004**	**0.0168**	**0.0170**	**0.0000**	**54.0852**	**54.0852**	**0.0175**	**0.0000**	**54.5225**

3.9 02 Access Road Construction/Refreshing - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	7.0000e-005	0.0000	8.2000e-004	0.0000	8.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.0771	0.0771	1.0000e-005	0.0000	0.0773
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	8.6000e-004	8.4300e-003	3.0000e-005	0.1389	2.0000e-005	0.1389	0.0142	2.0000e-005	0.0143	0.0000	2.2834	2.2834	7.0000e-005	0.0000	2.2851
Total	**1.1700e-003**	**1.1400e-003**	**8.5000e-003**	**3.0000e-005**	**0.1397**	**2.0000e-005**	**0.1397**	**0.0143**	**2.0000e-005**	**0.0144**	**0.0000**	**2.3605**	**2.3605**	**8.0000e-005**	**0.0000**	**2.3624**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5100e-003	0.0000	1.5100e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0417	0.4085	0.2355	6.2000e-004		0.0183	0.0183		0.0168	0.0168	0.0000	54.0851	54.0851	0.0175	0.0000	54.5224
Total	**0.0417**	**0.4085**	**0.2355**	**6.2000e-004**	**1.5100e-003**	**0.0183**	**0.0198**	**1.6000e-004**	**0.0168**	**0.0170**	**0.0000**	**54.0851**	**54.0851**	**0.0175**	**0.0000**	**54.5224**

3.9 02 Access Road Construction/Refreshing - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	7.0000e-005	0.0000	8.2000e-004	0.0000	8.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.0771	0.0771	1.0000e-005	0.0000	0.0773
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	8.6000e-004	8.4300e-003	3.0000e-005	0.1389	2.0000e-005	0.1389	0.0142	2.0000e-005	0.0143	0.0000	2.2834	2.2834	7.0000e-005	0.0000	2.2851
Total	**1.1700e-003**	**1.1400e-003**	**8.5000e-003**	**3.0000e-005**	**0.1397**	**2.0000e-005**	**0.1397**	**0.0143**	**2.0000e-005**	**0.0144**	**0.0000**	**2.3605**	**2.3605**	**8.0000e-005**	**0.0000**	**2.3624**

3.10 03 Material Haul - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.1162	0.0559	1.3000e-004		5.4600e-003	5.4600e-003		5.0200e-003	5.0200e-003	0.0000	11.1187	11.1187	3.6000e-003	0.0000	11.2086
Total	**0.0103**	**0.1162**	**0.0559**	**1.3000e-004**	**0.0000**	**5.4600e-003**	**5.4600e-003**	**0.0000**	**5.0200e-003**	**5.0200e-003**	**0.0000**	**11.1187**	**11.1187**	**3.6000e-003**	**0.0000**	**11.2086**

3.10 03 Material Haul - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	4.4200e-003	1.0000e-005	0.0728	1.0000e-005	0.0728	7.4600e-003	1.0000e-005	7.4700e-003	0.0000	1.1960	1.1960	4.0000e-005	0.0000	1.1969
Total	**6.1000e-004**	**4.5000e-004**	**4.4200e-003**	**1.0000e-005**	**0.0728**	**1.0000e-005**	**0.0728**	**7.4600e-003**	**1.0000e-005**	**7.4700e-003**	**0.0000**	**1.1960**	**1.1960**	**4.0000e-005**	**0.0000**	**1.1969**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.1162	0.0559	1.3000e-004		5.4600e-003	5.4600e-003		5.0200e-003	5.0200e-003	0.0000	11.1187	11.1187	3.6000e-003	0.0000	11.2086
Total	**0.0103**	**0.1162**	**0.0559**	**1.3000e-004**	**0.0000**	**5.4600e-003**	**5.4600e-003**	**0.0000**	**5.0200e-003**	**5.0200e-003**	**0.0000**	**11.1187**	**11.1187**	**3.6000e-003**	**0.0000**	**11.2086**

3.10 03 Material Haul - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	4.4200e-003	1.0000e-005	0.0728	1.0000e-005	0.0728	7.4600e-003	1.0000e-005	7.4700e-003	0.0000	1.1960	1.1960	4.0000e-005	0.0000	1.1969
Total	**6.1000e-004**	**4.5000e-004**	**4.4200e-003**	**1.0000e-005**	**0.0728**	**1.0000e-005**	**0.0728**	**7.4600e-003**	**1.0000e-005**	**7.4700e-003**	**0.0000**	**1.1960**	**1.1960**	**4.0000e-005**	**0.0000**	**1.1969**

3.11 04.1 Auger Holes, Direct Bury Poles - Seg 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-004	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0421	0.3963	0.2667	7.4000e-004		0.0169	0.0169		0.0158	0.0158	0.0000	64.4615	64.4615	0.0197	0.0000	64.9534
Total	**0.0421**	**0.3963**	**0.2667**	**7.4000e-004**	**1.0000e-004**	**0.0169**	**0.0170**	**1.0000e-005**	**0.0158**	**0.0158**	**0.0000**	**64.4615**	**64.4615**	**0.0197**	**0.0000**	**64.9534**

3.11 04.1 Auger Holes, Direct Bury Poles - Seg 1 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	7.0000e-005	0.0000	8.2000e-004	0.0000	8.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.0771	0.0771	1.0000e-005	0.0000	0.0773
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.6000e-004	7.4900e-003	2.0000e-005	0.1235	2.0000e-005	0.1235	0.0127	1.0000e-005	0.0127	0.0000	2.0297	2.0297	6.0000e-005	0.0000	2.0312
Total	**1.0400e-003**	**1.0400e-003**	**7.5600e-003**	**2.0000e-005**	**0.1243**	**2.0000e-005**	**0.1243**	**0.0127**	**1.0000e-005**	**0.0128**	**0.0000**	**2.1068**	**2.1068**	**7.0000e-005**	**0.0000**	**2.1085**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-004	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0421	0.3963	0.2667	7.4000e-004		0.0169	0.0169		0.0158	0.0158	0.0000	64.4614	64.4614	0.0197	0.0000	64.9533
Total	**0.0421**	**0.3963**	**0.2667**	**7.4000e-004**	**1.0000e-004**	**0.0169**	**0.0170**	**1.0000e-005**	**0.0158**	**0.0158**	**0.0000**	**64.4614**	**64.4614**	**0.0197**	**0.0000**	**64.9533**

3.11 04.1 Auger Holes, Direct Bury Poles - Seg 1 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	7.0000e-005	0.0000	8.2000e-004	0.0000	8.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.0771	0.0771	1.0000e-005	0.0000	0.0773
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.6000e-004	7.4900e-003	2.0000e-005	0.1235	2.0000e-005	0.1235	0.0127	1.0000e-005	0.0127	0.0000	2.0297	2.0297	6.0000e-005	0.0000	2.0312
Total	**1.0400e-003**	**1.0400e-003**	**7.5600e-003**	**2.0000e-005**	**0.1243**	**2.0000e-005**	**0.1243**	**0.0127**	**1.0000e-005**	**0.0128**	**0.0000**	**2.1068**	**2.1068**	**7.0000e-005**	**0.0000**	**2.1085**

3.12 05.1 Foundation Construction (Pier) - Seg 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.2810	0.2441	5.1000e-004		0.0137	0.0137		0.0129	0.0129	0.0000	44.7244	44.7244	0.0121	0.0000	45.0269
Total	**0.0310**	**0.2810**	**0.2441**	**5.1000e-004**	**3.0000e-005**	**0.0137**	**0.0138**	**0.0000**	**0.0129**	**0.0129**	**0.0000**	**44.7244**	**44.7244**	**0.0121**	**0.0000**	**45.0269**

3.12 05.1 Foundation Construction (Pier) - Seg 1 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	7.0000e-005	0.0000	8.2000e-004	0.0000	8.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.0771	0.0771	1.0000e-005	0.0000	0.0773
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.5000e-004	6.4200e-003	2.0000e-005	0.1058	1.0000e-005	0.1058	0.0109	1.0000e-005	0.0109	0.0000	1.7397	1.7397	5.0000e-005	0.0000	1.7410
Total	**8.9000e-004**	**9.3000e-004**	**6.4900e-003**	**2.0000e-005**	**0.1066**	**1.0000e-005**	**0.1067**	**0.0109**	**1.0000e-005**	**0.0110**	**0.0000**	**1.8168**	**1.8168**	**6.0000e-005**	**0.0000**	**1.8183**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.2810	0.2441	5.1000e-004		0.0137	0.0137		0.0129	0.0129	0.0000	44.7243	44.7243	0.0121	0.0000	45.0269
Total	**0.0310**	**0.2810**	**0.2441**	**5.1000e-004**	**3.0000e-005**	**0.0137**	**0.0138**	**0.0000**	**0.0129**	**0.0129**	**0.0000**	**44.7243**	**44.7243**	**0.0121**	**0.0000**	**45.0269**

3.12 05.1 Foundation Construction (Pier) - Seg 1 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	7.0000e-005	0.0000	8.2000e-004	0.0000	8.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.0771	0.0771	1.0000e-005	0.0000	0.0773
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.5000e-004	6.4200e-003	2.0000e-005	0.1058	1.0000e-005	0.1058	0.0109	1.0000e-005	0.0109	0.0000	1.7397	1.7397	5.0000e-005	0.0000	1.7410
Total	**8.9000e-004**	**9.3000e-004**	**6.4900e-003**	**2.0000e-005**	**0.1066**	**1.0000e-005**	**0.1067**	**0.0109**	**1.0000e-005**	**0.0110**	**0.0000**	**1.8168**	**1.8168**	**6.0000e-005**	**0.0000**	**1.8183**

3.13 11 AC Interference Mitigation System Installation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1316	1.3140	0.8842	2.6500e-003		0.0506	0.0506		0.0466	0.0466	0.0000	232.9726	232.9726	0.0754	0.0000	234.8563
Total	**0.1316**	**1.3140**	**0.8842**	**2.6500e-003**	**0.0000**	**0.0506**	**0.0506**	**0.0000**	**0.0466**	**0.0466**	**0.0000**	**232.9726**	**232.9726**	**0.0754**	**0.0000**	**234.8563**

3.13 11 AC Interference Mitigation System Installation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.4000e-004	8.2400e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.2326	2.2326	7.0000e-005	0.0000	2.2343
Total	**1.1400e-003**	**9.8000e-004**	**8.2700e-003**	**2.0000e-005**	**2.4800e-003**	**2.0000e-005**	**2.5000e-003**	**6.6000e-004**	**2.0000e-005**	**6.7000e-004**	**0.0000**	**2.2712**	**2.2712**	**7.0000e-005**	**0.0000**	**2.2729**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1316	1.3140	0.8842	2.6500e-003		0.0506	0.0506		0.0466	0.0466	0.0000	232.9723	232.9723	0.0754	0.0000	234.8560
Total	**0.1316**	**1.3140**	**0.8842**	**2.6500e-003**	**0.0000**	**0.0506**	**0.0506**	**0.0000**	**0.0466**	**0.0466**	**0.0000**	**232.9723**	**232.9723**	**0.0754**	**0.0000**	**234.8560**

3.13 11 AC Interference Mitigation System Installation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.4000e-004	8.2400e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.2326	2.2326	7.0000e-005	0.0000	2.2343
Total	**1.1400e-003**	**9.8000e-004**	**8.2700e-003**	**2.0000e-005**	**2.4800e-003**	**2.0000e-005**	**2.5000e-003**	**6.6000e-004**	**2.0000e-005**	**6.7000e-004**	**0.0000**	**2.2712**	**2.2712**	**7.0000e-005**	**0.0000**	**2.2729**

3.14 12.1 Micropile Foundation Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0526	0.4940	0.3298	8.4000e-004		0.0228	0.0228		0.0215	0.0215	0.0000	73.8084	73.8084	0.0197	0.0000	74.3009
Total	**0.0526**	**0.4940**	**0.3298**	**8.4000e-004**	**0.0000**	**0.0228**	**0.0228**	**0.0000**	**0.0215**	**0.0215**	**0.0000**	**73.8084**	**73.8084**	**0.0197**	**0.0000**	**74.3009**

3.14 12.1 Micropile Foundation Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	1.0600e-003	0.0104	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.8270	2.8270	8.0000e-005	0.0000	2.8291
Total	**1.4400e-003**	**1.2000e-003**	**0.0105**	**3.0000e-005**	**3.1400e-003**	**2.0000e-005**	**3.1600e-003**	**8.3000e-004**	**2.0000e-005**	**8.5000e-004**	**0.0000**	**2.8656**	**2.8656**	**8.0000e-005**	**0.0000**	**2.8678**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0526	0.4940	0.3298	8.4000e-004		0.0228	0.0228		0.0215	0.0215	0.0000	73.8083	73.8083	0.0197	0.0000	74.3008
Total	**0.0526**	**0.4940**	**0.3298**	**8.4000e-004**	**0.0000**	**0.0228**	**0.0228**	**0.0000**	**0.0215**	**0.0215**	**0.0000**	**73.8083**	**73.8083**	**0.0197**	**0.0000**	**74.3008**

3.14 12.1 Micropile Foundation Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	1.0600e-003	0.0104	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.8270	2.8270	8.0000e-005	0.0000	2.8291
Total	**1.4400e-003**	**1.2000e-003**	**0.0105**	**3.0000e-005**	**3.1400e-003**	**2.0000e-005**	**3.1600e-003**	**8.3000e-004**	**2.0000e-005**	**8.5000e-004**	**0.0000**	**2.8656**	**2.8656**	**8.0000e-005**	**0.0000**	**2.8678**

3.15 04.2 Auger Holes, Direct Bury Poles - Seg 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0466	0.4388	0.2953	8.1000e-004		0.0188	0.0188		0.0174	0.0174	0.0000	71.3681	71.3681	0.0218	0.0000	71.9127
Total	**0.0466**	**0.4388**	**0.2953**	**8.1000e-004**	**2.0000e-005**	**0.0188**	**0.0188**	**0.0000**	**0.0174**	**0.0174**	**0.0000**	**71.3681**	**71.3681**	**0.0218**	**0.0000**	**71.9127**

3.15 04.2 Auger Holes, Direct Bury Poles - Seg 2 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.5000e-004	8.3000e-003	2.0000e-005	0.1367	2.0000e-005	0.1367	0.0140	2.0000e-005	0.0140	0.0000	2.2471	2.2471	7.0000e-005	0.0000	2.2488
Total	**1.1400e-003**	**9.9000e-004**	**8.3300e-003**	**2.0000e-005**	**0.1371**	**2.0000e-005**	**0.1371**	**0.0141**	**2.0000e-005**	**0.0141**	**0.0000**	**2.2857**	**2.2857**	**7.0000e-005**	**0.0000**	**2.2875**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0466	0.4388	0.2953	8.1000e-004		0.0188	0.0188		0.0174	0.0174	0.0000	71.3680	71.3680	0.0218	0.0000	71.9126
Total	**0.0466**	**0.4388**	**0.2953**	**8.1000e-004**	**2.0000e-005**	**0.0188**	**0.0188**	**0.0000**	**0.0174**	**0.0174**	**0.0000**	**71.3680**	**71.3680**	**0.0218**	**0.0000**	**71.9126**

3.15 04.2 Auger Holes, Direct Bury Poles - Seg 2 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.5000e-004	8.3000e-003	2.0000e-005	0.1367	2.0000e-005	0.1367	0.0140	2.0000e-005	0.0140	0.0000	2.2471	2.2471	7.0000e-005	0.0000	2.2488
Total	**1.1400e-003**	**9.9000e-004**	**8.3300e-003**	**2.0000e-005**	**0.1371**	**2.0000e-005**	**0.1371**	**0.0141**	**2.0000e-005**	**0.0141**	**0.0000**	**2.2857**	**2.2857**	**7.0000e-005**	**0.0000**	**2.2875**

3.16 06.1 Structure Installation and Assembly - Seg 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-004	0.0000	1.7000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0482	0.4395	0.2439	8.5000e-004		0.0171	0.0171		0.0158	0.0158	0.0000	74.7707	74.7707	0.0242	0.0000	75.3753
Total	**0.0482**	**0.4395**	**0.2439**	**8.5000e-004**	**1.7000e-004**	**0.0171**	**0.0173**	**2.0000e-005**	**0.0158**	**0.0158**	**0.0000**	**74.7707**	**74.7707**	**0.0242**	**0.0000**	**75.3753**

3.16 06.1 Structure Installation and Assembly - Seg 1 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.5000e-004	8.3000e-003	2.0000e-005	0.1367	2.0000e-005	0.1367	0.0140	2.0000e-005	0.0140	0.0000	2.2471	2.2471	7.0000e-005	0.0000	2.2488
Total	**1.1400e-003**	**8.5000e-004**	**8.3000e-003**	**2.0000e-005**	**0.1367**	**2.0000e-005**	**0.1367**	**0.0140**	**2.0000e-005**	**0.0140**	**0.0000**	**2.2471**	**2.2471**	**7.0000e-005**	**0.0000**	**2.2488**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-004	0.0000	1.7000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0482	0.4395	0.2439	8.5000e-004		0.0171	0.0171		0.0158	0.0158	0.0000	74.7707	74.7707	0.0242	0.0000	75.3752
Total	**0.0482**	**0.4395**	**0.2439**	**8.5000e-004**	**1.7000e-004**	**0.0171**	**0.0173**	**2.0000e-005**	**0.0158**	**0.0158**	**0.0000**	**74.7707**	**74.7707**	**0.0242**	**0.0000**	**75.3752**

3.16 06.1 Structure Installation and Assembly - Seg 1 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.5000e-004	8.3000e-003	2.0000e-005	0.1367	2.0000e-005	0.1367	0.0140	2.0000e-005	0.0140	0.0000	2.2471	2.2471	7.0000e-005	0.0000	2.2488
Total	**1.1400e-003**	**8.5000e-004**	**8.3000e-003**	**2.0000e-005**	**0.1367**	**2.0000e-005**	**0.1367**	**0.0140**	**2.0000e-005**	**0.0140**	**0.0000**	**2.2471**	**2.2471**	**7.0000e-005**	**0.0000**	**2.2488**

3.17 10.1 Substation Work (San Marcos) below grade - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0645	0.0308	1.1000e-004		2.4100e-003	2.4100e-003		2.2100e-003	2.2100e-003	0.0000	9.5152	9.5152	3.0800e-003	0.0000	9.5921
Total	**5.7700e-003**	**0.0645**	**0.0308**	**1.1000e-004**	**0.0000**	**2.4100e-003**	**2.4100e-003**	**0.0000**	**2.2100e-003**	**2.2100e-003**	**0.0000**	**9.5152**	**9.5152**	**3.0800e-003**	**0.0000**	**9.5921**

3.17 10.1 Substation Work (San Marcos) below grade - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	6.6000e-004	0.0000	6.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.6000e-004	1.6100e-003	0.0000	0.0429	0.0000	0.0429	4.3600e-003	0.0000	4.3600e-003	0.0000	0.4349	0.4349	1.0000e-005	0.0000	0.4353
Total	**2.2000e-004**	**3.0000e-004**	**1.6400e-003**	**0.0000**	**0.0436**	**0.0000**	**0.0436**	**4.4300e-003**	**0.0000**	**4.4300e-003**	**0.0000**	**0.4735**	**0.4735**	**1.0000e-005**	**0.0000**	**0.4739**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0645	0.0308	1.1000e-004		2.4100e-003	2.4100e-003		2.2100e-003	2.2100e-003	0.0000	9.5152	9.5152	3.0800e-003	0.0000	9.5921
Total	**5.7700e-003**	**0.0645**	**0.0308**	**1.1000e-004**	**0.0000**	**2.4100e-003**	**2.4100e-003**	**0.0000**	**2.2100e-003**	**2.2100e-003**	**0.0000**	**9.5152**	**9.5152**	**3.0800e-003**	**0.0000**	**9.5921**

3.17 10.1 Substation Work (San Marcos) below grade - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	6.6000e-004	0.0000	6.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.6000e-004	1.6100e-003	0.0000	0.0429	0.0000	0.0429	4.3600e-003	0.0000	4.3600e-003	0.0000	0.4349	0.4349	1.0000e-005	0.0000	0.4353
Total	**2.2000e-004**	**3.0000e-004**	**1.6400e-003**	**0.0000**	**0.0436**	**0.0000**	**0.0436**	**4.4300e-003**	**0.0000**	**4.4300e-003**	**0.0000**	**0.4735**	**0.4735**	**1.0000e-005**	**0.0000**	**0.4739**

3.18 08 Trenching for Installation of Undergound Cables - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0801	0.7953	0.4712	1.3300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	116.6081	116.6081	0.0377	0.0000	117.5509
Total	**0.0801**	**0.7953**	**0.4712**	**1.3300e-003**	**5.0000e-005**	**0.0355**	**0.0356**	**1.0000e-005**	**0.0327**	**0.0327**	**0.0000**	**116.6081**	**116.6081**	**0.0377**	**0.0000**	**117.5509**

3.18 08 Trenching for Installation of Undergound Cables - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.3400e-003	0.0131	4.0000e-005	0.2161	3.0000e-005	0.2161	0.0222	3.0000e-005	0.0222	0.0000	3.5519	3.5519	1.1000e-004	0.0000	3.5546
Total	**1.8100e-003**	**1.3400e-003**	**0.0131**	**4.0000e-005**	**0.2161**	**3.0000e-005**	**0.2161**	**0.0222**	**3.0000e-005**	**0.0222**	**0.0000**	**3.5519**	**3.5519**	**1.1000e-004**	**0.0000**	**3.5546**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0801	0.7953	0.4712	1.3300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	116.6079	116.6079	0.0377	0.0000	117.5508
Total	**0.0801**	**0.7953**	**0.4712**	**1.3300e-003**	**5.0000e-005**	**0.0355**	**0.0356**	**1.0000e-005**	**0.0327**	**0.0327**	**0.0000**	**116.6079**	**116.6079**	**0.0377**	**0.0000**	**117.5508**

3.18 08 Trenching for Installation of Undergound Cables - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8100e-003	1.3400e-003	0.0131	4.0000e-005	0.2161	3.0000e-005	0.2161	0.0222	3.0000e-005	0.0222	0.0000	3.5519	3.5519	1.1000e-004	0.0000	3.5546
Total	**1.8100e-003**	**1.3400e-003**	**0.0131**	**4.0000e-005**	**0.2161**	**3.0000e-005**	**0.2161**	**0.0222**	**3.0000e-005**	**0.0222**	**0.0000**	**3.5519**	**3.5519**	**1.1000e-004**	**0.0000**	**3.5546**

3.19 10.2 Substation Work (San Marcos) above grade - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-003	0.0795	0.0437	1.5000e-004		3.0700e-003	3.0700e-003		2.8300e-003	2.8300e-003	0.0000	13.5068	13.5068	4.3700e-003	0.0000	13.6161
Total	**8.6000e-003**	**0.0795**	**0.0437**	**1.5000e-004**		**3.0700e-003**	**3.0700e-003**		**2.8300e-003**	**2.8300e-003**	**0.0000**	**13.5068**	**13.5068**	**4.3700e-003**	**0.0000**	**13.6161**

3.19 10.2 Substation Work (San Marcos) above grade - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	6.6000e-004	0.0000	6.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	7.0000e-004	6.8200e-003	2.0000e-005	0.1824	1.0000e-005	0.1824	0.0185	1.0000e-005	0.0185	0.0000	1.8484	1.8484	6.0000e-005	0.0000	1.8498
Total	**9.4000e-004**	**8.4000e-004**	**6.8500e-003**	**2.0000e-005**	**0.1831**	**1.0000e-005**	**0.1831**	**0.0186**	**1.0000e-005**	**0.0186**	**0.0000**	**1.8870**	**1.8870**	**6.0000e-005**	**0.0000**	**1.8885**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-003	0.0795	0.0437	1.5000e-004		3.0700e-003	3.0700e-003		2.8300e-003	2.8300e-003	0.0000	13.5068	13.5068	4.3700e-003	0.0000	13.6160
Total	**8.6000e-003**	**0.0795**	**0.0437**	**1.5000e-004**		**3.0700e-003**	**3.0700e-003**		**2.8300e-003**	**2.8300e-003**	**0.0000**	**13.5068**	**13.5068**	**4.3700e-003**	**0.0000**	**13.6160**

3.19 10.2 Substation Work (San Marcos) above grade - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	6.6000e-004	0.0000	6.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	7.0000e-004	6.8200e-003	2.0000e-005	0.1824	1.0000e-005	0.1824	0.0185	1.0000e-005	0.0185	0.0000	1.8484	1.8484	6.0000e-005	0.0000	1.8498
Total	**9.4000e-004**	**8.4000e-004**	**6.8500e-003**	**2.0000e-005**	**0.1831**	**1.0000e-005**	**0.1831**	**0.0186**	**1.0000e-005**	**0.0186**	**0.0000**	**1.8870**	**1.8870**	**6.0000e-005**	**0.0000**	**1.8885**

3.20 05.2 Foundation Construction (Pier) - Seg 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2900e-003	0.0000	1.2900e-003	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.4507	0.3916	8.2000e-004		0.0220	0.0220		0.0207	0.0207	0.0000	71.7454	71.7454	0.0194	0.0000	72.2307
Total	**0.0498**	**0.4507**	**0.3916**	**8.2000e-004**	**1.2900e-003**	**0.0220**	**0.0233**	**1.5000e-004**	**0.0207**	**0.0209**	**0.0000**	**71.7454**	**71.7454**	**0.0194**	**0.0000**	**72.2307**

3.20 05.2 Foundation Construction (Pier) - Seg 2 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1200e-003	0.0400	9.1500e-003	1.1000e-004	0.1150	1.3000e-004	0.1152	0.0119	1.2000e-004	0.0120	0.0000	10.8361	10.8361	9.8000e-004	0.0000	10.8604
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.0500e-003	0.0103	3.0000e-005	0.1698	2.0000e-005	0.1698	0.0174	2.0000e-005	0.0174	0.0000	2.7908	2.7908	8.0000e-005	0.0000	2.7929
Total	**2.5400e-003**	**0.0410**	**0.0195**	**1.4000e-004**	**0.2848**	**1.5000e-004**	**0.2849**	**0.0293**	**1.4000e-004**	**0.0294**	**0.0000**	**13.6268**	**13.6268**	**1.0600e-003**	**0.0000**	**13.6533**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2900e-003	0.0000	1.2900e-003	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.4507	0.3916	8.2000e-004		0.0220	0.0220		0.0207	0.0207	0.0000	71.7453	71.7453	0.0194	0.0000	72.2306
Total	**0.0498**	**0.4507**	**0.3916**	**8.2000e-004**	**1.2900e-003**	**0.0220**	**0.0233**	**1.5000e-004**	**0.0207**	**0.0209**	**0.0000**	**71.7453**	**71.7453**	**0.0194**	**0.0000**	**72.2306**

3.20 05.2 Foundation Construction (Pier) - Seg 2 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1200e-003	0.0400	9.1500e-003	1.1000e-004	0.1150	1.3000e-004	0.1152	0.0119	1.2000e-004	0.0120	0.0000	10.8361	10.8361	9.8000e-004	0.0000	10.8604
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	1.0500e-003	0.0103	3.0000e-005	0.1698	2.0000e-005	0.1698	0.0174	2.0000e-005	0.0174	0.0000	2.7908	2.7908	8.0000e-005	0.0000	2.7929
Total	**2.5400e-003**	**0.0410**	**0.0195**	**1.4000e-004**	**0.2848**	**1.5000e-004**	**0.2849**	**0.0293**	**1.4000e-004**	**0.0294**	**0.0000**	**13.6268**	**13.6268**	**1.0600e-003**	**0.0000**	**13.6533**

3.21 04.3 Auger Holes, Direct Bury Poles - Seg 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-003	0.0283	0.0191	5.0000e-005		1.2100e-003	1.2100e-003		1.1200e-003	1.1200e-003	0.0000	4.6044	4.6044	1.4100e-003	0.0000	4.6395
Total	**3.0000e-003**	**0.0283**	**0.0191**	**5.0000e-005**	**1.0000e-005**	**1.2100e-003**	**1.2200e-003**	**0.0000**	**1.1200e-003**	**1.1200e-003**	**0.0000**	**4.6044**	**4.6044**	**1.4100e-003**	**0.0000**	**4.6395**

3.21 04.3 Auger Holes, Direct Bury Poles - Seg 3 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.4000e-004	0.0000	8.8200e-003	0.0000	8.8200e-003	9.0000e-004	0.0000	9.1000e-004	0.0000	0.1450	0.1450	0.0000	0.0000	0.1451
Total	**7.0000e-005**	**1.9000e-004**	**5.7000e-004**	**0.0000**	**9.2300e-003**	**0.0000**	**9.2300e-003**	**9.4000e-004**	**0.0000**	**9.5000e-004**	**0.0000**	**0.1835**	**0.1835**	**0.0000**	**0.0000**	**0.1837**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-003	0.0283	0.0191	5.0000e-005		1.2100e-003	1.2100e-003		1.1200e-003	1.1200e-003	0.0000	4.6044	4.6044	1.4100e-003	0.0000	4.6395
Total	**3.0000e-003**	**0.0283**	**0.0191**	**5.0000e-005**	**1.0000e-005**	**1.2100e-003**	**1.2200e-003**	**0.0000**	**1.1200e-003**	**1.1200e-003**	**0.0000**	**4.6044**	**4.6044**	**1.4100e-003**	**0.0000**	**4.6395**

3.21 04.3 Auger Holes, Direct Bury Poles - Seg 3 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.4000e-004	0.0000	8.8200e-003	0.0000	8.8200e-003	9.0000e-004	0.0000	9.1000e-004	0.0000	0.1450	0.1450	0.0000	0.0000	0.1451
Total	**7.0000e-005**	**1.9000e-004**	**5.7000e-004**	**0.0000**	**9.2300e-003**	**0.0000**	**9.2300e-003**	**9.4000e-004**	**0.0000**	**9.5000e-004**	**0.0000**	**0.1835**	**0.1835**	**0.0000**	**0.0000**	**0.1837**

3.22 06.2 Structure Installation and Assembly - Seg 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4000e-004	0.0000	3.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1057	0.9641	0.5349	1.8700e-003		0.0376	0.0376		0.0346	0.0346	0.0000	164.0132	164.0132	0.0531	0.0000	165.3394
Total	**0.1057**	**0.9641**	**0.5349**	**1.8700e-003**	**3.4000e-004**	**0.0376**	**0.0379**	**4.0000e-005**	**0.0346**	**0.0346**	**0.0000**	**164.0132**	**164.0132**	**0.0531**	**0.0000**	**165.3394**

3.22 06.2 Structure Installation and Assembly - Seg 2 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5100e-003	1.8600e-003	0.0182	5.0000e-005	0.2998	4.0000e-005	0.2999	0.0308	4.0000e-005	0.0308	0.0000	4.9292	4.9292	1.5000e-004	0.0000	4.9329
Total	**2.5100e-003**	**2.0000e-003**	**0.0182**	**5.0000e-005**	**0.3002**	**4.0000e-005**	**0.3003**	**0.0308**	**4.0000e-005**	**0.0308**	**0.0000**	**4.9677**	**4.9677**	**1.5000e-004**	**0.0000**	**4.9715**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4000e-004	0.0000	3.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1057	0.9641	0.5349	1.8700e-003		0.0376	0.0376		0.0346	0.0346	0.0000	164.0131	164.0131	0.0531	0.0000	165.3392
Total	**0.1057**	**0.9641**	**0.5349**	**1.8700e-003**	**3.4000e-004**	**0.0376**	**0.0379**	**4.0000e-005**	**0.0346**	**0.0346**	**0.0000**	**164.0131**	**164.0131**	**0.0531**	**0.0000**	**165.3392**

3.22 06.2 Structure Installation and Assembly - Seg 2 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5100e-003	1.8600e-003	0.0182	5.0000e-005	0.2998	4.0000e-005	0.2999	0.0308	4.0000e-005	0.0308	0.0000	4.9292	4.9292	1.5000e-004	0.0000	4.9329
Total	**2.5100e-003**	**2.0000e-003**	**0.0182**	**5.0000e-005**	**0.3002**	**4.0000e-005**	**0.3003**	**0.0308**	**4.0000e-005**	**0.0308**	**0.0000**	**4.9677**	**4.9677**	**1.5000e-004**	**0.0000**	**4.9715**

3.23 07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3000e-004	0.0000	1.3000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0726	0.7163	0.4175	1.3600e-003		0.0277	0.0277		0.0255	0.0255	0.0000	119.4239	119.4239	0.0386	0.0000	120.3895
Total	**0.0726**	**0.7163**	**0.4175**	**1.3600e-003**	**1.3000e-004**	**0.0277**	**0.0279**	**1.0000e-005**	**0.0255**	**0.0255**	**0.0000**	**119.4239**	**119.4239**	**0.0386**	**0.0000**	**120.3895**

3.23 07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0300e-003	1.5000e-003	0.0147	4.0000e-005	0.2425	3.0000e-005	0.2425	0.0249	3.0000e-005	0.0249	0.0000	3.9868	3.9868	1.2000e-004	0.0000	3.9898
Total	**2.0300e-003**	**1.6400e-003**	**0.0148**	**4.0000e-005**	**0.2429**	**3.0000e-005**	**0.2429**	**0.0249**	**3.0000e-005**	**0.0249**	**0.0000**	**4.0254**	**4.0254**	**1.2000e-004**	**0.0000**	**4.0285**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3000e-004	0.0000	1.3000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0726	0.7163	0.4175	1.3600e-003		0.0277	0.0277		0.0255	0.0255	0.0000	119.4237	119.4237	0.0386	0.0000	120.3893
Total	**0.0726**	**0.7163**	**0.4175**	**1.3600e-003**	**1.3000e-004**	**0.0277**	**0.0279**	**1.0000e-005**	**0.0255**	**0.0255**	**0.0000**	**119.4237**	**119.4237**	**0.0386**	**0.0000**	**120.3893**

3.23 07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0300e-003	1.5000e-003	0.0147	4.0000e-005	0.2425	3.0000e-005	0.2425	0.0249	3.0000e-005	0.0249	0.0000	3.9868	3.9868	1.2000e-004	0.0000	3.9898
Total	**2.0300e-003**	**1.6400e-003**	**0.0148**	**4.0000e-005**	**0.2429**	**3.0000e-005**	**0.2429**	**0.0249**	**3.0000e-005**	**0.0249**	**0.0000**	**4.0254**	**4.0254**	**1.2000e-004**	**0.0000**	**4.0285**

3.24 12.2 Micropile Foundation Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1012	0.9501	0.6343	1.6200e-003		0.0438	0.0438		0.0413	0.0413	0.0000	141.9392	141.9392	0.0379	0.0000	142.8864
Total	**0.1012**	**0.9501**	**0.6343**	**1.6200e-003**	**0.0000**	**0.0438**	**0.0438**	**0.0000**	**0.0413**	**0.0413**	**0.0000**	**141.9392**	**141.9392**	**0.0379**	**0.0000**	**142.8864**

3.24 12.2 Micropile Foundation Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7600e-003	2.0500e-003	0.0201	6.0000e-005	6.0100e-003	4.0000e-005	6.0600e-003	1.6000e-003	4.0000e-005	1.6400e-003	0.0000	5.4366	5.4366	1.6000e-004	0.0000	5.4407
Total	**2.7600e-003**	**2.1900e-003**	**0.0201**	**6.0000e-005**	**6.0200e-003**	**4.0000e-005**	**6.0700e-003**	**1.6000e-003**	**4.0000e-005**	**1.6400e-003**	**0.0000**	**5.4751**	**5.4751**	**1.6000e-004**	**0.0000**	**5.4793**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1012	0.9501	0.6343	1.6200e-003		0.0438	0.0438		0.0413	0.0413	0.0000	141.9390	141.9390	0.0379	0.0000	142.8862
Total	**0.1012**	**0.9501**	**0.6343**	**1.6200e-003**	**0.0000**	**0.0438**	**0.0438**	**0.0000**	**0.0413**	**0.0413**	**0.0000**	**141.9390**	**141.9390**	**0.0379**	**0.0000**	**142.8862**

3.24 12.2 Micropile Foundation Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7600e-003	2.0500e-003	0.0201	6.0000e-005	6.0100e-003	4.0000e-005	6.0600e-003	1.6000e-003	4.0000e-005	1.6400e-003	0.0000	5.4366	5.4366	1.6000e-004	0.0000	5.4407
Total	**2.7600e-003**	**2.1900e-003**	**0.0201**	**6.0000e-005**	**6.0200e-003**	**4.0000e-005**	**6.0700e-003**	**1.6000e-003**	**4.0000e-005**	**1.6400e-003**	**0.0000**	**5.4751**	**5.4751**	**1.6000e-004**	**0.0000**	**5.4793**

3.25 12.3 Micropile Foundation Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0148	0.1393	0.0930	2.4000e-004		6.4300e-003	6.4300e-003		6.0500e-003	6.0500e-003	0.0000	20.8177	20.8177	5.5600e-003	0.0000	20.9567
Total	**0.0148**	**0.1393**	**0.0930**	**2.4000e-004**	**0.0000**	**6.4300e-003**	**6.4300e-003**	**0.0000**	**6.0500e-003**	**6.0500e-003**	**0.0000**	**20.8177**	**20.8177**	**5.5600e-003**	**0.0000**	**20.9567**

3.25 12.3 Micropile Foundation Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	2.9400e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7974	0.7974	2.0000e-005	0.0000	0.7980
Total	**4.1000e-004**	**4.4000e-004**	**2.9700e-003**	**1.0000e-005**	**8.9000e-004**	**1.0000e-005**	**9.0000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.8359**	**0.8359**	**2.0000e-005**	**0.0000**	**0.8366**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0148	0.1393	0.0930	2.4000e-004		6.4300e-003	6.4300e-003		6.0500e-003	6.0500e-003	0.0000	20.8177	20.8177	5.5600e-003	0.0000	20.9567
Total	**0.0148**	**0.1393**	**0.0930**	**2.4000e-004**	**0.0000**	**6.4300e-003**	**6.4300e-003**	**0.0000**	**6.0500e-003**	**6.0500e-003**	**0.0000**	**20.8177**	**20.8177**	**5.5600e-003**	**0.0000**	**20.9567**

3.25 12.3 Micropile Foundation Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	2.9400e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7974	0.7974	2.0000e-005	0.0000	0.7980
Total	**4.1000e-004**	**4.4000e-004**	**2.9700e-003**	**1.0000e-005**	**8.9000e-004**	**1.0000e-005**	**9.0000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.8359**	**0.8359**	**2.0000e-005**	**0.0000**	**0.8366**

3.26 05.3 Foundation Construction (Pier) - Seg 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5000e-004	0.0000	3.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1100e-003	0.0644	0.0559	1.2000e-004		3.1500e-003	3.1500e-003		2.9600e-003	2.9600e-003	0.0000	10.2493	10.2493	2.7700e-003	0.0000	10.3187
Total	**7.1100e-003**	**0.0644**	**0.0559**	**1.2000e-004**	**3.5000e-004**	**3.1500e-003**	**3.5000e-003**	**4.0000e-005**	**2.9600e-003**	**3.0000e-003**	**0.0000**	**10.2493**	**10.2493**	**2.7700e-003**	**0.0000**	**10.3187**

3.26 05.3 Foundation Construction (Pier) - Seg 3 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4000e-004	8.6800e-003	1.9900e-003	2.0000e-005	0.0250	3.0000e-005	0.0250	2.5800e-003	3.0000e-005	2.6000e-003	0.0000	2.3523	2.3523	2.1000e-004	0.0000	2.3576
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.4700e-003	0.0000	0.0243	0.0000	0.0243	2.4900e-003	0.0000	2.4900e-003	0.0000	0.3987	0.3987	1.0000e-005	0.0000	0.3990
Total	**4.4000e-004**	**8.8300e-003**	**3.4600e-003**	**2.0000e-005**	**0.0492**	**3.0000e-005**	**0.0493**	**5.0700e-003**	**3.0000e-005**	**5.0900e-003**	**0.0000**	**2.7510**	**2.7510**	**2.2000e-004**	**0.0000**	**2.7566**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5000e-004	0.0000	3.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1100e-003	0.0644	0.0559	1.2000e-004		3.1500e-003	3.1500e-003		2.9600e-003	2.9600e-003	0.0000	10.2493	10.2493	2.7700e-003	0.0000	10.3187
Total	**7.1100e-003**	**0.0644**	**0.0559**	**1.2000e-004**	**3.5000e-004**	**3.1500e-003**	**3.5000e-003**	**4.0000e-005**	**2.9600e-003**	**3.0000e-003**	**0.0000**	**10.2493**	**10.2493**	**2.7700e-003**	**0.0000**	**10.3187**

3.26 05.3 Foundation Construction (Pier) - Seg 3 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4000e-004	8.6800e-003	1.9900e-003	2.0000e-005	0.0250	3.0000e-005	0.0250	2.5800e-003	3.0000e-005	2.6000e-003	0.0000	2.3523	2.3523	2.1000e-004	0.0000	2.3576
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.4700e-003	0.0000	0.0243	0.0000	0.0243	2.4900e-003	0.0000	2.4900e-003	0.0000	0.3987	0.3987	1.0000e-005	0.0000	0.3990
Total	**4.4000e-004**	**8.8300e-003**	**3.4600e-003**	**2.0000e-005**	**0.0492**	**3.0000e-005**	**0.0493**	**5.0700e-003**	**3.0000e-005**	**5.0900e-003**	**0.0000**	**2.7510**	**2.7510**	**2.2000e-004**	**0.0000**	**2.7566**

3.27 06.3 Structure Installation and Assembly - Seg 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-004	0.0000	1.7000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.2552	0.1416	4.9000e-004		9.9400e-003	9.9400e-003		9.1500e-003	9.1500e-003	0.0000	43.4153	43.4153	0.0140	0.0000	43.7663
Total	**0.0280**	**0.2552**	**0.1416**	**4.9000e-004**	**1.7000e-004**	**9.9400e-003**	**0.0101**	**2.0000e-005**	**9.1500e-003**	**9.1700e-003**	**0.0000**	**43.4153**	**43.4153**	**0.0140**	**0.0000**	**43.7663**

3.27 06.3 Structure Installation and Assembly - Seg 3 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.9000e-004	4.8200e-003	1.0000e-005	0.0794	1.0000e-005	0.0794	8.1400e-003	1.0000e-005	8.1500e-003	0.0000	1.3048	1.3048	4.0000e-005	0.0000	1.3058
Total	**6.6000e-004**	**6.3000e-004**	**4.8500e-003**	**1.0000e-005**	**0.0798**	**1.0000e-005**	**0.0798**	**8.1800e-003**	**1.0000e-005**	**8.1900e-003**	**0.0000**	**1.3433**	**1.3433**	**4.0000e-005**	**0.0000**	**1.3444**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-004	0.0000	1.7000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.2552	0.1416	4.9000e-004		9.9400e-003	9.9400e-003		9.1500e-003	9.1500e-003	0.0000	43.4152	43.4152	0.0140	0.0000	43.7663
Total	**0.0280**	**0.2552**	**0.1416**	**4.9000e-004**	**1.7000e-004**	**9.9400e-003**	**0.0101**	**2.0000e-005**	**9.1500e-003**	**9.1700e-003**	**0.0000**	**43.4152**	**43.4152**	**0.0140**	**0.0000**	**43.7663**

3.27 06.3 Structure Installation and Assembly - Seg 3 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.9000e-004	4.8200e-003	1.0000e-005	0.0794	1.0000e-005	0.0794	8.1400e-003	1.0000e-005	8.1500e-003	0.0000	1.3048	1.3048	4.0000e-005	0.0000	1.3058
Total	**6.6000e-004**	**6.3000e-004**	**4.8500e-003**	**1.0000e-005**	**0.0798**	**1.0000e-005**	**0.0798**	**8.1800e-003**	**1.0000e-005**	**8.1900e-003**	**0.0000**	**1.3433**	**1.3433**	**4.0000e-005**	**0.0000**	**1.3444**

3.28 10.3 Substation Work (Escondido) below grade - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0645	0.0308	1.1000e-004		2.4100e-003	2.4100e-003		2.2100e-003	2.2100e-003	0.0000	9.5152	9.5152	3.0800e-003	0.0000	9.5921
Total	**5.7700e-003**	**0.0645**	**0.0308**	**1.1000e-004**	**0.0000**	**2.4100e-003**	**2.4100e-003**	**0.0000**	**2.2100e-003**	**2.2100e-003**	**0.0000**	**9.5152**	**9.5152**	**3.0800e-003**	**0.0000**	**9.5921**

3.28 10.3 Substation Work (Escondido) below grade - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	6.6000e-004	0.0000	6.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.6000e-004	1.6100e-003	0.0000	0.0429	0.0000	0.0429	4.3600e-003	0.0000	4.3600e-003	0.0000	0.4349	0.4349	1.0000e-005	0.0000	0.4353
Total	**2.2000e-004**	**3.0000e-004**	**1.6400e-003**	**0.0000**	**0.0436**	**0.0000**	**0.0436**	**4.4300e-003**	**0.0000**	**4.4300e-003**	**0.0000**	**0.4735**	**0.4735**	**1.0000e-005**	**0.0000**	**0.4739**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0645	0.0308	1.1000e-004		2.4100e-003	2.4100e-003		2.2100e-003	2.2100e-003	0.0000	9.5152	9.5152	3.0800e-003	0.0000	9.5921
Total	**5.7700e-003**	**0.0645**	**0.0308**	**1.1000e-004**	**0.0000**	**2.4100e-003**	**2.4100e-003**	**0.0000**	**2.2100e-003**	**2.2100e-003**	**0.0000**	**9.5152**	**9.5152**	**3.0800e-003**	**0.0000**	**9.5921**

3.28 10.3 Substation Work (Escondido) below grade - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	6.6000e-004	0.0000	6.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.6000e-004	1.6100e-003	0.0000	0.0429	0.0000	0.0429	4.3600e-003	0.0000	4.3600e-003	0.0000	0.4349	0.4349	1.0000e-005	0.0000	0.4353
Total	**2.2000e-004**	**3.0000e-004**	**1.6400e-003**	**0.0000**	**0.0436**	**0.0000**	**0.0436**	**4.4300e-003**	**0.0000**	**4.4300e-003**	**0.0000**	**0.4735**	**0.4735**	**1.0000e-005**	**0.0000**	**0.4739**

3.29 10.4 Substation Work (Escondido) above grade - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6300e-003	0.0788	0.0437	1.5000e-004		3.0700e-003	3.0700e-003		2.8200e-003	2.8200e-003	0.0000	13.3998	13.3998	4.3300e-003	0.0000	13.5081
Total	**8.6300e-003**	**0.0788**	**0.0437**	**1.5000e-004**		**3.0700e-003**	**3.0700e-003**		**2.8200e-003**	**2.8200e-003**	**0.0000**	**13.3998**	**13.3998**	**4.3300e-003**	**0.0000**	**13.5081**

3.29 10.4 Substation Work (Escondido) above grade - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	6.6000e-004	0.0000	6.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	7.0000e-004	6.8200e-003	2.0000e-005	0.1824	1.0000e-005	0.1824	0.0185	1.0000e-005	0.0185	0.0000	1.8484	1.8484	6.0000e-005	0.0000	1.8498
Total	**9.4000e-004**	**8.4000e-004**	**6.8500e-003**	**2.0000e-005**	**0.1831**	**1.0000e-005**	**0.1831**	**0.0186**	**1.0000e-005**	**0.0186**	**0.0000**	**1.8870**	**1.8870**	**6.0000e-005**	**0.0000**	**1.8885**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6300e-003	0.0788	0.0437	1.5000e-004		3.0700e-003	3.0700e-003		2.8200e-003	2.8200e-003	0.0000	13.3998	13.3998	4.3300e-003	0.0000	13.5081
Total	**8.6300e-003**	**0.0788**	**0.0437**	**1.5000e-004**		**3.0700e-003**	**3.0700e-003**		**2.8200e-003**	**2.8200e-003**	**0.0000**	**13.3998**	**13.3998**	**4.3300e-003**	**0.0000**	**13.5081**

3.29 10.4 Substation Work (Escondido) above grade - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	6.6000e-004	0.0000	6.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	7.0000e-004	6.8200e-003	2.0000e-005	0.1824	1.0000e-005	0.1824	0.0185	1.0000e-005	0.0185	0.0000	1.8484	1.8484	6.0000e-005	0.0000	1.8498
Total	**9.4000e-004**	**8.4000e-004**	**6.8500e-003**	**2.0000e-005**	**0.1831**	**1.0000e-005**	**0.1831**	**0.0186**	**1.0000e-005**	**0.0186**	**0.0000**	**1.8870**	**1.8870**	**6.0000e-005**	**0.0000**	**1.8885**

3.30 07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-004	0.0000	4.0000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0436	0.4298	0.2505	8.2000e-004		0.0166	0.0166		0.0153	0.0153	0.0000	71.6543	71.6543	0.0232	0.0000	72.2337
Total	**0.0436**	**0.4298**	**0.2505**	**8.2000e-004**	**4.0000e-004**	**0.0166**	**0.0170**	**4.0000e-005**	**0.0153**	**0.0154**	**0.0000**	**71.6543**	**71.6543**	**0.0232**	**0.0000**	**72.2337**

3.30 07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	7.0000e-005	0.0000	8.2000e-004	0.0000	8.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.0771	0.0771	1.0000e-005	0.0000	0.0773
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	8.8300e-003	3.0000e-005	0.1455	2.0000e-005	0.1455	0.0149	2.0000e-005	0.0149	0.0000	2.3921	2.3921	7.0000e-005	0.0000	2.3939
Total	**1.2300e-003**	**1.1800e-003**	**8.9000e-003**	**3.0000e-005**	**0.1463**	**2.0000e-005**	**0.1463**	**0.0150**	**2.0000e-005**	**0.0150**	**0.0000**	**2.4692**	**2.4692**	**8.0000e-005**	**0.0000**	**2.4712**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-004	0.0000	4.0000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0436	0.4298	0.2505	8.2000e-004		0.0166	0.0166		0.0153	0.0153	0.0000	71.6542	71.6542	0.0232	0.0000	72.2336
Total	**0.0436**	**0.4298**	**0.2505**	**8.2000e-004**	**4.0000e-004**	**0.0166**	**0.0170**	**4.0000e-005**	**0.0153**	**0.0154**	**0.0000**	**71.6542**	**71.6542**	**0.0232**	**0.0000**	**72.2336**

3.30 07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	7.0000e-005	0.0000	8.2000e-004	0.0000	8.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.0771	0.0771	1.0000e-005	0.0000	0.0773
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	8.8300e-003	3.0000e-005	0.1455	2.0000e-005	0.1455	0.0149	2.0000e-005	0.0149	0.0000	2.3921	2.3921	7.0000e-005	0.0000	2.3939
Total	**1.2300e-003**	**1.1800e-003**	**8.9000e-003**	**3.0000e-005**	**0.1463**	**2.0000e-005**	**0.1463**	**0.0150**	**2.0000e-005**	**0.0150**	**0.0000**	**2.4692**	**2.4692**	**8.0000e-005**	**0.0000**	**2.4712**

3.31 09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0360	0.3413	0.2306	5.7000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	50.2736	50.2736	0.0163	0.0000	50.6801
Total	**0.0360**	**0.3413**	**0.2306**	**5.7000e-004**	**0.0000**	**0.0155**	**0.0155**	**0.0000**	**0.0143**	**0.0143**	**0.0000**	**50.2736**	**50.2736**	**0.0163**	**0.0000**	**50.6801**

3.31 09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	9.3000e-004	9.1000e-003	3.0000e-005	0.1499	2.0000e-005	0.1499	0.0154	2.0000e-005	0.0154	0.0000	2.4646	2.4646	7.0000e-005	0.0000	2.4664
Total	**1.2500e-003**	**1.0700e-003**	**9.1300e-003**	**3.0000e-005**	**0.1503**	**2.0000e-005**	**0.1503**	**0.0154**	**2.0000e-005**	**0.0154**	**0.0000**	**2.5031**	**2.5031**	**7.0000e-005**	**0.0000**	**2.5051**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0360	0.3413	0.2306	5.7000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	50.2735	50.2735	0.0163	0.0000	50.6800
Total	**0.0360**	**0.3413**	**0.2306**	**5.7000e-004**	**0.0000**	**0.0155**	**0.0155**	**0.0000**	**0.0143**	**0.0143**	**0.0000**	**50.2735**	**50.2735**	**0.0163**	**0.0000**	**50.6800**

3.31 09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	9.3000e-004	9.1000e-003	3.0000e-005	0.1499	2.0000e-005	0.1499	0.0154	2.0000e-005	0.0154	0.0000	2.4646	2.4646	7.0000e-005	0.0000	2.4664
Total	**1.2500e-003**	**1.0700e-003**	**9.1300e-003**	**3.0000e-005**	**0.1503**	**2.0000e-005**	**0.1503**	**0.0154**	**2.0000e-005**	**0.0154**	**0.0000**	**2.5031**	**2.5031**	**7.0000e-005**	**0.0000**	**2.5051**

3.32 07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0436	0.4298	0.2505	8.2000e-004		0.0166	0.0166		0.0153	0.0153	0.0000	71.6543	71.6543	0.0232	0.0000	72.2337
Total	**0.0436**	**0.4298**	**0.2505**	**8.2000e-004**	**1.2000e-004**	**0.0166**	**0.0168**	**1.0000e-005**	**0.0153**	**0.0153**	**0.0000**	**71.6543**	**71.6543**	**0.0232**	**0.0000**	**72.2337**

3.32 07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	8.8300e-003	3.0000e-005	0.1455	2.0000e-005	0.1455	0.0149	2.0000e-005	0.0149	0.0000	2.3921	2.3921	7.0000e-005	0.0000	2.3939
Total	**1.2200e-003**	**1.0400e-003**	**8.8600e-003**	**3.0000e-005**	**0.1459**	**2.0000e-005**	**0.1459**	**0.0150**	**2.0000e-005**	**0.0150**	**0.0000**	**2.4307**	**2.4307**	**7.0000e-005**	**0.0000**	**2.4325**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0436	0.4298	0.2505	8.2000e-004		0.0166	0.0166		0.0153	0.0153	0.0000	71.6542	71.6542	0.0232	0.0000	72.2336
Total	**0.0436**	**0.4298**	**0.2505**	**8.2000e-004**	**1.2000e-004**	**0.0166**	**0.0168**	**1.0000e-005**	**0.0153**	**0.0153**	**0.0000**	**71.6542**	**71.6542**	**0.0232**	**0.0000**	**72.2336**

3.32 07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	8.8300e-003	3.0000e-005	0.1455	2.0000e-005	0.1455	0.0149	2.0000e-005	0.0149	0.0000	2.3921	2.3921	7.0000e-005	0.0000	2.3939
Total	**1.2200e-003**	**1.0400e-003**	**8.8600e-003**	**3.0000e-005**	**0.1459**	**2.0000e-005**	**0.1459**	**0.0150**	**2.0000e-005**	**0.0150**	**0.0000**	**2.4307**	**2.4307**	**7.0000e-005**	**0.0000**	**2.4325**

3.33 09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0476	0.4517	0.3052	7.6000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	66.5385	66.5385	0.0215	0.0000	67.0765
Total	**0.0476**	**0.4517**	**0.3052**	**7.6000e-004**	**0.0000**	**0.0206**	**0.0206**	**0.0000**	**0.0189**	**0.0189**	**0.0000**	**66.5385**	**66.5385**	**0.0215**	**0.0000**	**67.0765**

3.33 09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6600e-003	1.2300e-003	0.0120	4.0000e-005	0.1984	3.0000e-005	0.1984	0.0204	2.0000e-005	0.0204	0.0000	3.2619	3.2619	1.0000e-004	0.0000	3.2644
Total	**1.6600e-003**	**1.3700e-003**	**0.0121**	**4.0000e-005**	**0.1988**	**3.0000e-005**	**0.1988**	**0.0204**	**2.0000e-005**	**0.0204**	**0.0000**	**3.3005**	**3.3005**	**1.0000e-004**	**0.0000**	**3.3030**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0476	0.4517	0.3052	7.6000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	66.5385	66.5385	0.0215	0.0000	67.0765
Total	**0.0476**	**0.4517**	**0.3052**	**7.6000e-004**	**0.0000**	**0.0206**	**0.0206**	**0.0000**	**0.0189**	**0.0189**	**0.0000**	**66.5385**	**66.5385**	**0.0215**	**0.0000**	**67.0765**

3.33 09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6600e-003	1.2300e-003	0.0120	4.0000e-005	0.1984	3.0000e-005	0.1984	0.0204	2.0000e-005	0.0204	0.0000	3.2619	3.2619	1.0000e-004	0.0000	3.2644
Total	**1.6600e-003**	**1.3700e-003**	**0.0121**	**4.0000e-005**	**0.1988**	**3.0000e-005**	**0.1988**	**0.0204**	**2.0000e-005**	**0.0204**	**0.0000**	**3.3005**	**3.3005**	**1.0000e-004**	**0.0000**	**3.3030**

3.34 09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0349	0.3312	0.2238	5.6000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	48.7949	48.7949	0.0158	0.0000	49.1895
Total	**0.0349**	**0.3312**	**0.2238**	**5.6000e-004**	**0.0000**	**0.0151**	**0.0151**	**0.0000**	**0.0139**	**0.0139**	**0.0000**	**48.7949**	**48.7949**	**0.0158**	**0.0000**	**49.1895**

3.34 09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2 - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	8.8300e-003	3.0000e-005	0.1455	2.0000e-005	0.1455	0.0149	2.0000e-005	0.0149	0.0000	2.3921	2.3921	7.0000e-005	0.0000	2.3939
Total	**1.2200e-003**	**1.0400e-003**	**8.8600e-003**	**3.0000e-005**	**0.1459**	**2.0000e-005**	**0.1459**	**0.0150**	**2.0000e-005**	**0.0150**	**0.0000**	**2.4307**	**2.4307**	**7.0000e-005**	**0.0000**	**2.4325**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0349	0.3312	0.2238	5.6000e-004		0.0151	0.0151		0.0139	0.0139	0.0000	48.7949	48.7949	0.0158	0.0000	49.1894
Total	**0.0349**	**0.3312**	**0.2238**	**5.6000e-004**	**0.0000**	**0.0151**	**0.0151**	**0.0000**	**0.0139**	**0.0139**	**0.0000**	**48.7949**	**48.7949**	**0.0158**	**0.0000**	**49.1894**

3.34 09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2 - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.4000e-004	3.0000e-005	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0386	0.0386	0.0000	0.0000	0.0387
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	8.8300e-003	3.0000e-005	0.1455	2.0000e-005	0.1455	0.0149	2.0000e-005	0.0149	0.0000	2.3921	2.3921	7.0000e-005	0.0000	2.3939
Total	**1.2200e-003**	**1.0400e-003**	**8.8600e-003**	**3.0000e-005**	**0.1459**	**2.0000e-005**	**0.1459**	**0.0150**	**2.0000e-005**	**0.0150**	**0.0000**	**2.4307**	**2.4307**	**7.0000e-005**	**0.0000**	**2.4325**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**2.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SDG&E TL 6975 Project

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Overall construction schedule (December 2019 - November 2020) and general phases provided by client; schedule was prepared based on total number of work days with assumptions regarding schedule overlaps.

Off-road Equipment -

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; mower assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; pressure digger is substituted by bore/drill rig.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; pressure digger is substituted by bore/drill rig.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; pressure digger is substituted by bore/drill rig.

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Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; double-bullwheel and drum puller assumed to be "other construction equipment."

Off-road Equipment - Construction eqiupment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; double-bullwheel and drum puller assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; double-bullwheel and drum puller assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; wire dolly and pulling rig assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; mower assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; mower assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; mower assumed to be "other construction equipment."

Off-road Equipment - Construction equipment, unit amount, hourse/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; ditch witch substituted with a trencher.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; ditch witch substituted with a trencher.

Off-road Equipment - Construction equipment, unit amount, house/day, and horsepower provided by client; all trucks assumed to be off-highway trucks; ditch witch substituted with a trencher.

Off-road Equipment - Construction equipment, unit amount, hours/day, and horsepower provided by client; all trucks assumed to be off-highway trucks.

Off-road Equipment - Project specific information

Off-road Equipment - Project specific construction information

Off-road Equipment - Project specific construction information

SDG&E TL 6975 Project - San Diego County, Winter

Off-road Equipment - Project specific construction information
Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Based on information provided by client. All delivery trips accounted for with haul truck trips, using default trip lenghts of 20 miles.

On-road Fugitive Dust - Assumes 5% of vehicle travel would be on unpaved roads, with a mean vehicle speed of 15mph.

Grading - Acres to be graded based on data from project description and assumptions based on work areas for poles.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstructionPhase	NumDays	0.00	15.00
tblConstructionPhase	NumDays	0.00	15.00
tblConstructionPhase	NumDays	0.00	28.00
tblConstructionPhase	NumDays	0.00	48.00
tblConstructionPhase	NumDays	0.00	77.00
tblConstructionPhase	NumDays	0.00	39.00
tblConstructionPhase	NumDays	0.00	31.00
tblConstructionPhase	NumDays	0.00	31.00
tblConstructionPhase	NumDays	0.00	15.00
tblConstructionPhase	NumDays	0.00	98.00
tblConstructionPhase	NumDays	0.00	77.00
tblConstructionPhase	NumDays	0.00	2.00
tblConstructionPhase	NumDays	0.00	68.00
tblConstructionPhase	NumDays	0.00	55.00

tblConstructionPhase	NumDays	0.00	75.00
tblConstructionPhase	NumDays	0.00	11.00
tblConstructionPhase	NumDays	0.00	11.00
tblConstructionPhase	NumDays	0.00	18.00
tblConstructionPhase	NumDays	0.00	15.00
tblConstructionPhase	NumDays	0.00	33.00
tblConstructionPhase	NumDays	0.00	30.00
tblConstructionPhase	NumDays	0.00	34.00
tblConstructionPhase	NumDays	0.00	33.00
tblConstructionPhase	NumDays	0.00	45.00
tblConstructionPhase	NumDays	0.00	33.00
tblConstructionPhase	NumDays	0.00	63.00
tblConstructionPhase	NumDays	0.00	33.00
tblGrading	AcresOfGrading	0.00	0.18
tblGrading	AcresOfGrading	0.00	0.06
tblGrading	AcresOfGrading	0.00	0.04
tblGrading	AcresOfGrading	0.00	0.32
tblGrading	AcresOfGrading	0.00	0.10
tblGrading	AcresOfGrading	0.00	1.85
tblGrading	AcresOfGrading	0.00	0.01
tblGrading	AcresOfGrading	0.00	0.64
tblGrading	AcresOfGrading	0.00	0.25
tblGrading	AcresOfGrading	0.00	0.53
tblGrading	AcresOfGrading	0.00	0.32
tblGrading	AcresOfGrading	0.00	0.76
tblGrading	AcresOfGrading	18.75	2.84
tblGrading	AcresOfGrading	8.50	0.00

tblGrading	AcresOfGrading	0.00	0.23
tblGrading	AcresOfGrading	11.25	0.00
tblGrading	AcresOfGrading	8.25	0.00
tblGrading	AcresOfGrading	23.63	2.85
tblGrading	MaterialExported	0.00	1,403.00
tblGrading	MaterialExported	0.00	937.00
tblGrading	MaterialImported	0.00	3,063.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	37.00
tblOffRoadEquipment	HorsePower	97.00	300.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	37.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	37.00
tblOffRoadEquipment	HorsePower	97.00	37.00
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tblOffRoadEquipment	HorsePower	97.00	37.00
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tblOffRoadEquipment	HorsePower	97.00	37.00
tblOffRoadEquipment	HorsePower	97.00	250.00
tblOffRoadEquipment	HorsePower	97.00	37.00
tblOffRoadEquipment	HorsePower	221.00	82.00
tblOffRoadEquipment	HorsePower	221.00	82.00

tblOffRoadEquipment	HorsePower	221.00	82.00
tblOffRoadEquipment	HorsePower	221.00	500.00
tblOffRoadEquipment	HorsePower	221.00	82.00
tblOffRoadEquipment	HorsePower	221.00	82.00
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tblOffRoadEquipment	PhaseName		05.1 Foundation Construction (Pier) - Seg 1
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tblTripsAndVMT	HaulingTripNumber	0.00	2.00

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tblTripsAndVMT	WorkerTripNumber	25.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
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tblTripsAndVMT	WorkerTripNumber	18.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.1517	30.0906	18.8456	0.0417	46.5438	2.6181	47.9958	4.7415	2.4591	6.0774	0.0000	4,147.1318	4,147.1318	1.2151	0.0000	4,177.5083
2020	18.4202	173.0571	112.5308	0.3202	80.5771	7.3325	87.5970	8.2485	6.7941	14.7432	0.0000	31,046.5856	31,046.5856	9.2782	0.0000	31,278.1853
Maximum	**18.4202**	**173.0571**	**112.5308**	**0.3202**	**80.5771**	**7.3325**	**87.5970**	**8.2485**	**6.7941**	**14.7432**	**0.0000**	**31,046.5856**	**31,046.5856**	**9.2782**	**0.0000**	**31,278.1853**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.1517	30.0906	18.8456	0.0417	46.5438	2.6181	47.9958	4.7415	2.4591	6.0774	0.0000	4,147.1318	4,147.1318	1.2151	0.0000	4,177.5083
2020	18.4202	173.0571	112.5308	0.3202	80.5771	7.3325	87.5970	8.2485	6.7941	14.7432	0.0000	31,046.5856	31,046.5856	9.2782	0.0000	31,278.1853
Maximum	**18.4202**	**173.0571**	**112.5308**	**0.3202**	**80.5771**	**7.3325**	**87.5970**	**8.2485**	**6.7941**	**14.7432**	**0.0000**	**31,046.5856**	**31,046.5856**	**9.2782**	**0.0000**	**31,278.1853**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**1.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**1.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/30/2019	12/29/2019	5	0	
2	Site Preparation	Site Preparation	12/30/2019	12/29/2019	5	0	
3	01 Pre-Construction Activities	Grading	12/30/2019	2/7/2020	5	30	
4	Grading	Grading	12/30/2019	12/29/2019	5	0	
5	Building Construction	Building Construction	12/30/2019	12/29/2019	5	0	
6	Paving	Paving	12/30/2019	12/29/2019	5	0	
7	Architectural Coating	Architectural Coating	12/30/2019	12/29/2019	5	0	
8	02 Access Road Construction/Refreshing	Grading	1/21/2020	4/16/2020	5	63	
9	03 Material Haul	Grading	1/21/2020	3/5/2020	5	33	
10	04.1 Auger Holes, Direct Bury Poles - Seg 1	Grading	1/21/2020	2/27/2020	5	28	
11	05.1 Foundation Construction (Pier) - Seg 1	Grading	1/21/2020	3/26/2020	5	48	
12	11 AC Interference Mitigation System Installation	Grading	2/1/2020	5/19/2020	5	77	
13	12.1 Micropile Foundation Construction	Grading	2/1/2020	3/26/2020	5	39	
14	04.2 Auger Holes, Direct Bury Poles - Seg 2	Grading	2/28/2020	4/10/2020	5	31	
15	06.1 Structure Installation and Assembly - Seg 1	Grading	2/28/2020	4/10/2020	5	31	
16	10.1 Substation Work (San Marcos) below grade	Grading	2/28/2020	3/19/2020	5	15	
17	08 Trenching for Installation of Undergound Cables	Grading	3/2/2020	7/15/2020	5	98	

18	10.2 Substation Work (San Marcos) above grade	Building Construction	3/20/2020	4/9/2020	5	15	
19	05.2 Foundation Construction (Pier) - Seg 2	Grading	3/27/2020	7/13/2020	5	77	
20	04.3 Auger Holes, Direct Bury Poles - Seg 3	Grading	4/10/2020	4/13/2020	5	2	
21	06.2 Structure Installation and Assembly - Seg 2	Grading	4/13/2020	7/15/2020	5	68	
22	07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Grading	4/13/2020	6/26/2020	5	55	
23	12.2 Micropile Foundation Construction	Grading	5/1/2020	8/13/2020	5	75	
24	12.3 Micropile Foundation Construction	Grading	5/1/2020	5/15/2020	5	11	
25	05.3 Foundation Construction (Pier) - Seg 3	Grading	6/1/2020	6/15/2020	5	11	
26	06.3 Structure Installation and Assembly - Seg 3	Grading	6/8/2020	7/1/2020	5	18	
27	10.3 Substation Work (Escondido) below grade	Grading	6/8/2020	6/26/2020	5	15	
28	10.4 Substation Work (Escondido) above grade	Building Construction	6/27/2020	7/17/2020	5	15	
29	07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Grading	6/29/2020	8/12/2020	5	33	
30	09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Grading	6/29/2020	8/13/2020	5	34	
31	07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Grading	8/13/2020	9/28/2020	5	33	
32	09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Grading	8/14/2020	10/15/2020	5	45	
33	09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Grading	9/29/2020	11/12/2020	5	33	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
01 Pre-Construction Activities	Concrete/Industrial Saws	0	8.00	81	0.73
01 Pre-Construction Activities	Excavators	2	3.00	162	0.38
01 Pre-Construction Activities	Graders	2	5.00	174	0.41
01 Pre-Construction Activities	Off-Highway Trucks	2	3.00	250	0.38
01 Pre-Construction Activities	Off-Highway Trucks	2	4.00	250	0.38
01 Pre-Construction Activities	Off-Highway Trucks	1	4.00	250	0.38
01 Pre-Construction Activities	Other Construction Equipment	2	4.00	74	0.42
01 Pre-Construction Activities	Rubber Tired Dozers	0	1.00	247	0.40
01 Pre-Construction Activities	Tractors/Loaders/Backhoes	2	4.00	37	0.37
01 Pre-Construction Activities	Tractors/Loaders/Backhoes	1	4.00	250	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38

Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
02 Access Road Construction/Refreshing	Concrete/Industrial Saws	0	8.00	81	0.73
02 Access Road Construction/Refreshing	Graders	1	6.00	174	0.41
02 Access Road Construction/Refreshing	Off-Highway Tractors	1	4.00	250	0.44
02 Access Road Construction/Refreshing	Off-Highway Trucks	2	5.00	250	0.38
02 Access Road Construction/Refreshing	Rubber Tired Dozers	0	1.00	247	0.40
02 Access Road Construction/Refreshing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
03 Material Haul	Concrete/Industrial Saws	0	8.00	81	0.73
03 Material Haul	Cranes	2	4.00	250	0.29
03 Material Haul	Forklifts	2	4.00	83	0.20
03 Material Haul	Rubber Tired Dozers	0	1.00	247	0.40
03 Material Haul	Tractors/Loaders/Backhoes	0	6.00	97	0.37
04.1 Auger Holes, Direct Bury Poles - Seg 1	Air Compressors	2	4.00	78	0.48
04.1 Auger Holes, Direct Bury Poles - Seg 1	Bore/Drill Rigs	2	6.00	82	0.50
04.1 Auger Holes, Direct Bury Poles - Seg 1	Bore/Drill Rigs	1	4.00	82	0.50
04.1 Auger Holes, Direct Bury Poles - Seg 1	Concrete/Industrial Saws	0	8.00	81	0.73
04.1 Auger Holes, Direct Bury Poles - Seg 1	Off-Highway Trucks	2	6.00	250	0.38
04.1 Auger Holes, Direct Bury Poles - Seg 1	Off-Highway Trucks	2	5.00	250	0.38
04.1 Auger Holes, Direct Bury Poles - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
04.1 Auger Holes, Direct Bury Poles - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
04.1 Auger Holes, Direct Bury Poles - Seg 1	Rubber Tired Dozers	0	1.00	247	0.40

04.1 Auger Holes, Direct Bury Poles - Seg 1	Tractors/Loaders/Backhoes	1	3.00	250	0.37
05.1 Foundation Construction (Pier) - Seg 1	Air Compressors	1	4.00	78	0.48
05.1 Foundation Construction (Pier) - Seg 1	Bore/Drill Rigs	1	7.00	82	0.50
05.1 Foundation Construction (Pier) - Seg 1	Concrete/Industrial Saws	0	8.00	81	0.73
05.1 Foundation Construction (Pier) - Seg 1	Excavators	1	4.00	162	0.38
05.1 Foundation Construction (Pier) - Seg 1	Forklifts	1	3.00	83	0.20
05.1 Foundation Construction (Pier) - Seg 1	Generator Sets	1	3.00	84	0.74
05.1 Foundation Construction (Pier) - Seg 1	Off-Highway Trucks	1	3.00	250	0.38
05.1 Foundation Construction (Pier) - Seg 1	Off-Highway Trucks	1	4.00	250	0.38
05.1 Foundation Construction (Pier) - Seg 1	Off-Highway Trucks	1	3.00	250	0.38
05.1 Foundation Construction (Pier) - Seg 1	Rubber Tired Dozers	0	1.00	247	0.40
05.1 Foundation Construction (Pier) - Seg 1	Tractors/Loaders/Backhoes	1	3.00	37	0.37
11 AC Interference Mitigation System Installation	Bore/Drill Rigs	1	8.00	500	0.50
11 AC Interference Mitigation System Installation	Off-Highway Trucks	1	4.00	430	0.38
11 AC Interference Mitigation System Installation	Off-Highway Trucks	1	6.00	550	0.38
11 AC Interference Mitigation System Installation	Off-Highway Trucks	1	8.00	550	0.38
11 AC Interference Mitigation System Installation	Off-Highway Trucks	1	4.00	310	0.38
11 AC Interference Mitigation System Installation	Other General Industrial Equipment	1	6.00	74	0.34
11 AC Interference Mitigation System Installation	Tractors/Loaders/Backhoes	1	2.00	300	0.37
04.2 Auger Holes, Direct Bury Poles - Seg 2	Air Compressors	2	4.00	78	0.48
04.2 Auger Holes, Direct Bury Poles - Seg 2	Bore/Drill Rigs	2	6.00	82	0.50
04.2 Auger Holes, Direct Bury Poles - Seg 2	Bore/Drill Rigs	1	4.00	82	0.50

04.2 Auger Holes, Direct Bury Poles - Seg 2	Concrete/Industrial Saws	0	8.00	81	0.73
04.2 Auger Holes, Direct Bury Poles - Seg 2	Off-Highway Trucks	2	6.00	250	0.38
04.2 Auger Holes, Direct Bury Poles - Seg 2	Off-Highway Trucks	2	5.00	250	0.38
04.2 Auger Holes, Direct Bury Poles - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
04.2 Auger Holes, Direct Bury Poles - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
04.2 Auger Holes, Direct Bury Poles - Seg 2	Rubber Tired Dozers	0	1.00	247	0.40
04.2 Auger Holes, Direct Bury Poles - Seg 2	Tractors/Loaders/Backhoes	1	3.00	250	0.37
06.1 Structure Installation and Assembly - Seg 1	Concrete/Industrial Saws	0	8.00	81	0.73
06.1 Structure Installation and Assembly - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
06.1 Structure Installation and Assembly - Seg 1	Off-Highway Trucks	3	6.00	250	0.38
06.1 Structure Installation and Assembly - Seg 1	Off-Highway Trucks	2	5.00	250	0.38
06.1 Structure Installation and Assembly - Seg 1	Off-Highway Trucks	3	6.00	250	0.38
06.1 Structure Installation and Assembly - Seg 1	Rubber Tired Dozers	0	1.00	247	0.40
06.1 Structure Installation and Assembly - Seg 1	Tractors/Loaders/Backhoes	0	6.00	97	0.37
10.1 Substation Work (San Marcos) below grade	Bore/Drill Rigs	1	4.00	250	0.50
10.1 Substation Work (San Marcos) below grade	Concrete/Industrial Saws	0	8.00	81	0.73
10.1 Substation Work (San Marcos) below grade	Off-Highway Trucks	1	1.00	250	0.38
10.1 Substation Work (San Marcos) below grade	Off-Highway Trucks	1	4.00	250	0.38
10.1 Substation Work (San Marcos) below grade	Rubber Tired Dozers	0	1.00	247	0.40
10.1 Substation Work (San Marcos) below grade	Tractors/Loaders/Backhoes	0	6.00	97	0.37
10.1 Substation Work (San Marcos) below grade	Trenchers	1	3.00	250	0.50
08 Trenching for Installation of Undergound Cables	Concrete/Industrial Saws	0	8.00	81	0.73

08 Trenching for Installation of Undergound Cables	Cranes	1	4.00	226	0.29
08 Trenching for Installation of Undergound Cables	Off-Highway Tractors	1	3.00	250	0.44
08 Trenching for Installation of Undergound Cables	Off-Highway Trucks	2	3.00	400	0.38
08 Trenching for Installation of Undergound Cables	Off-Highway Trucks	1	3.00	250	0.38
08 Trenching for Installation of Undergound Cables	Off-Highway Trucks	1	4.00	250	0.38
08 Trenching for Installation of Undergound Cables	Other Construction Equipment	1	3.00	82	0.42
08 Trenching for Installation of Undergound Cables	Other Construction Equipment	1	4.00	82	0.42
08 Trenching for Installation of Undergound Cables	Rubber Tired Dozers	0	1.00	247	0.40
08 Trenching for Installation of Undergound Cables	Tractors/Loaders/Backhoes	1	3.00	97	0.37
10.2 Substation Work (San Marcos) above grade	Cranes	0	4.00	231	0.29
10.2 Substation Work (San Marcos) above grade	Forklifts	0	6.00	89	0.20
10.2 Substation Work (San Marcos) above grade	Off-Highway Tractors	1	1.00	250	0.44
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	2	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.2 Substation Work (San Marcos) above grade	Off-Highway Trucks	1	1.00	250	0.38

10.2 Substation Work (San Marcos) above grade	Tractors/Loaders/Backhoes	0	8.00	97	0.37
05.2 Foundation Construction (Pier) - Seg 2	Air Compressors	1	4.00	78	0.48
05.2 Foundation Construction (Pier) - Seg 2	Bore/Drill Rigs	1	7.00	82	0.50
05.2 Foundation Construction (Pier) - Seg 2	Concrete/Industrial Saws	0	8.00	81	0.73
05.2 Foundation Construction (Pier) - Seg 2	Excavators	1	4.00	162	0.38
05.2 Foundation Construction (Pier) - Seg 2	Forklifts	1	3.00	83	0.20
05.2 Foundation Construction (Pier) - Seg 2	Generator Sets	1	3.00	84	0.74
05.2 Foundation Construction (Pier) - Seg 2	Off-Highway Trucks	1	3.00	250	0.38
05.2 Foundation Construction (Pier) - Seg 2	Off-Highway Trucks	1	4.00	250	0.38
05.2 Foundation Construction (Pier) - Seg 2	Off-Highway Trucks	1	3.00	250	0.38
05.2 Foundation Construction (Pier) - Seg 2	Rubber Tired Dozers	0	1.00	247	0.40
05.2 Foundation Construction (Pier) - Seg 2	Tractors/Loaders/Backhoes	1	3.00	37	0.37
04.3 Auger Holes, Direct Bury Poles - Seg 3	Air Compressors	2	4.00	78	0.48
04.3 Auger Holes, Direct Bury Poles - Seg 3	Bore/Drill Rigs	2	6.00	82	0.50
04.3 Auger Holes, Direct Bury Poles - Seg 3	Bore/Drill Rigs	1	4.00	82	0.50
04.3 Auger Holes, Direct Bury Poles - Seg 3	Concrete/Industrial Saws	0	8.00	81	0.73
04.3 Auger Holes, Direct Bury Poles - Seg 3	Off-Highway Trucks	2	6.00	250	0.38
04.3 Auger Holes, Direct Bury Poles - Seg 3	Off-Highway Trucks	2	5.00	250	0.38
04.3 Auger Holes, Direct Bury Poles - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
04.3 Auger Holes, Direct Bury Poles - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
04.3 Auger Holes, Direct Bury Poles - Seg 3	Rubber Tired Dozers	0	1.00	247	0.40
04.3 Auger Holes, Direct Bury Poles - Seg 3	Tractors/Loaders/Backhoes	1	3.00	250	0.37

06.2 Structure Installation and Assembly - Seg 2	Concrete/Industrial Saws	0	8.00	81	0.73
06.2 Structure Installation and Assembly - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
06.2 Structure Installation and Assembly - Seg 2	Off-Highway Trucks	3	6.00	250	0.38
06.2 Structure Installation and Assembly - Seg 2	Off-Highway Trucks	2	5.00	250	0.38
06.2 Structure Installation and Assembly - Seg 2	Off-Highway Trucks	3	6.00	250	0.38
06.2 Structure Installation and Assembly - Seg 2	Rubber Tired Dozers	0	1.00	247	0.40
06.2 Structure Installation and Assembly - Seg 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Concrete/Industrial Saws	0	8.00	81	0.73
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Forklifts	1	3.00	83	0.20
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Off-Highway Trucks	2	6.00	250	0.38
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Off-Highway Trucks	1	4.00	250	0.38
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Off-Highway Trucks	1	5.00	82	0.44
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Other Construction Equipment	1	6.00	300	0.42
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Other Construction Equipment	1	6.00	300	0.42
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Rubber Tired Dozers	0	1.00	247	0.40
07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1	Tractors/Loaders/Backhoes	0	6.00	97	0.37
05.3 Foundation Construction (Pier) - Seg 3	Air Compressors	1	4.00	78	0.48
05.3 Foundation Construction (Pier) - Seg 3	Bore/Drill Rigs	1	7.00	82	0.50
05.3 Foundation Construction (Pier) - Seg 3	Concrete/Industrial Saws	0	8.00	81	0.73
05.3 Foundation Construction (Pier) - Seg 3	Excavators	1	4.00	162	0.38

05.3 Foundation Construction (Pier) - Seg 3	Forklifts	1	3.00	83	0.20
05.3 Foundation Construction (Pier) - Seg 3	Generator Sets	1	3.00	84	0.74
05.3 Foundation Construction (Pier) - Seg 3	Off-Highway Trucks	1	3.00	250	0.38
05.3 Foundation Construction (Pier) - Seg 3	Off-Highway Trucks	1	4.00	250	0.38
05.3 Foundation Construction (Pier) - Seg 3	Off-Highway Trucks	1	3.00	250	0.38
05.3 Foundation Construction (Pier) - Seg 3	Rubber Tired Dozers	0	1.00	247	0.40
05.3 Foundation Construction (Pier) - Seg 3	Tractors/Loaders/Backhoes	1	3.00	37	0.37
06.3 Structure Installation and Assembly - Seg 3	Concrete/Industrial Saws	0	8.00	81	0.73
06.3 Structure Installation and Assembly - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
06.3 Structure Installation and Assembly - Seg 3	Off-Highway Trucks	3	6.00	250	0.38
06.3 Structure Installation and Assembly - Seg 3	Off-Highway Trucks	2	5.00	250	0.38
06.3 Structure Installation and Assembly - Seg 3	Off-Highway Trucks	3	6.00	250	0.38
06.3 Structure Installation and Assembly - Seg 3	Rubber Tired Dozers	0	1.00	247	0.40
06.3 Structure Installation and Assembly - Seg 3	Tractors/Loaders/Backhoes	0	6.00	97	0.37
10.3 Substation Work (Escondido) below grade	Bore/Drill Rigs	1	4.00	250	0.50
10.3 Substation Work (Escondido) below grade	Concrete/Industrial Saws	0	8.00	81	0.73
10.3 Substation Work (Escondido) below grade	Off-Highway Trucks	1	1.00	250	0.38
10.3 Substation Work (Escondido) below grade	Off-Highway Trucks	1	4.00	250	0.38
10.3 Substation Work (Escondido) below grade	Rubber Tired Dozers	0	1.00	247	0.40
10.3 Substation Work (Escondido) below grade	Tractors/Loaders/Backhoes	0	6.00	97	0.37
10.3 Substation Work (Escondido) below grade	Trenchers	1	3.00	250	0.50
10.4 Substation Work (Escondido) above grade	Cranes	0	4.00	231	0.29

10.4 Substation Work (Escondido) above grade	Forklifts	0	6.00	89	0.20
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	3.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	2	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Off-Highway Trucks	1	1.00	250	0.38
10.4 Substation Work (Escondido) above grade	Tractors/Loaders/Backhoes	0	8.00	97	0.37
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Concrete/Industrial Saws	0	8.00	81	0.73
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Forklifts	1	3.00	83	0.20
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Off-Highway Trucks	2	6.00	250	0.38
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Off-Highway Trucks	1	4.00	250	0.38
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Off-Highway Trucks	1	5.00	82	0.38
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Other Construction Equipment	1	6.00	300	0.42
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Other Construction Equipment	1	6.00	300	0.42

07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Rubber Tired Dozers	0	1.00	247	0.40
07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Concrete/Industrial Saws	0	8.00	81	0.73
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Excavators	1	4.00	162	0.38
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Graders	1	4.00	174	0.41
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Off-Highway Trucks	1	5.00	400	0.38
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Off-Highway Trucks	2	4.00	250	0.38
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Off-Highway Trucks	1	4.00	250	0.38
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Other Construction Equipment	1	4.00	74	0.42
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Rubber Tired Dozers	0	1.00	247	0.40
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Tractors/Loaders/Backhoes	1	4.00	97	0.37
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Tractors/Loaders/Backhoes	1	4.00	37	0.37
09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1	Tractors/Loaders/Backhoes	1	4.00	250	0.37
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Concrete/Industrial Saws	0	8.00	81	0.73
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Forklifts	1	3.00	83	0.20
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Off-Highway Trucks	2	6.00	250	0.38
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Off-Highway Trucks	1	4.00	250	0.38
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Off-Highway Trucks	1	5.00	82	0.38
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Other Construction Equipment	1	6.00	300	0.42
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Other Construction Equipment	1	6.00	300	0.42

07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Rubber Tired Dozers	0	1.00	247	0.40
07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3	Tractors/Loaders/Backhoes	0	6.00	97	0.37
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Concrete/Industrial Saws	0	8.00	81	0.73
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Excavators	1	4.00	162	0.38
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Graders	1	4.00	174	0.41
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Off-Highway Trucks	1	5.00	400	0.38
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Off-Highway Trucks	2	4.00	250	0.38
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Off-Highway Trucks	1	4.00	250	0.38
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Other Construction Equipment	1	4.00	74	0.42
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Rubber Tired Dozers	0	1.00	247	0.40
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Tractors/Loaders/Backhoes	1	4.00	97	0.37
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Tractors/Loaders/Backhoes	1	4.00	37	0.37
09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3	Tractors/Loaders/Backhoes	1	4.00	250	0.37
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Concrete/Industrial Saws	0	8.00	81	0.73
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Excavators	1	4.00	162	0.38
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Graders	1	4.00	174	0.41
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Off-Highway Trucks	1	5.00	400	0.38
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Off-Highway Trucks	2	4.00	250	0.38
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Off-Highway Trucks	1	4.00	250	0.38
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Other Construction Equipment	1	4.00	74	0.42
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Rubber Tired Dozers	0	1.00	247	0.40
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Tractors/Loaders/Backhoes	1	4.00	97	0.37

09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Tractors/Loaders/Backhoes	1	4.00	37	0.37
09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2	Tractors/Loaders/Backhoes	1	4.00	250	0.37
12.1 Micropile Foundation Construction	Air Compressors	2	3.00	78	0.48
12.1 Micropile Foundation Construction	Cranes	2	3.00	226	0.29
12.1 Micropile Foundation Construction	Forklifts	2	3.00	83	0.20
12.1 Micropile Foundation Construction	Generator Sets	2	4.00	84	0.74
12.1 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.1 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.1 Micropile Foundation Construction	Off-Highway Trucks	1	3.00	250	0.38
12.1 Micropile Foundation Construction	Off-Highway Trucks	1	4.00	250	0.38
12.1 Micropile Foundation Construction	Other General Industrial Equipment	1	3.00	84	0.34
12.1 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	97	0.37
12.1 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	250	0.37
12.2 Micropile Foundation Construction	Air Compressors	2	3.00	78	0.48
12.2 Micropile Foundation Construction	Cranes	2	3.00	226	0.29
12.2 Micropile Foundation Construction	Forklifts	2	3.00	83	0.20
12.2 Micropile Foundation Construction	Generator Sets	2	4.00	84	0.74
12.2 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.2 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.2 Micropile Foundation Construction	Off-Highway Trucks	1	3.00	250	0.38
12.2 Micropile Foundation Construction	Off-Highway Trucks	1	4.00	250	0.38
12.2 Micropile Foundation Construction	Other General Industrial Equipment	1	3.00	84	0.34
12.2 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	97	0.37
12.2 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	250	0.37
12.3 Micropile Foundation Construction	Air Compressors	2	3.00	78	0.48
12.3 Micropile Foundation Construction	Cranes	2	3.00	226	0.29
12.3 Micropile Foundation Construction	Forklifts	2	3.00	83	0.20

12.3 Micropile Foundation Construction	Generator Sets	2	4.00	84	0.74
12.3 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.3 Micropile Foundation Construction	Off-Highway Trucks	2	4.00	250	0.38
12.3 Micropile Foundation Construction	Off-Highway Trucks	1	3.00	250	0.38
12.3 Micropile Foundation Construction	Off-Highway Trucks	1	4.00	250	0.38
12.3 Micropile Foundation Construction	Other General Industrial Equipment	1	3.00	84	0.34
12.3 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	97	0.37
12.3 Micropile Foundation Construction	Tractors/Loaders/Backhoes	1	3.00	250	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
01 Pre-Construction Activities	14	20.00	0.00	80.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
02 Access Road Construction/Refreshi	4	10.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
03 Material Haul	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
04.1 Auger Holes, Direct Bury Poles - Se	14	20.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
05.1 Foundation Construction (Pier) - S	9	10.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
04.2 Auger Holes, Direct Bury Poles - Se	14	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
06.1 Structure Installation and Assem	10	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
10.1 Substation Work (San Marcos) below gr	4	8.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
08 Trenching for Installation of Undergo	9	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

10.2 Substation Work (San Marcos) above g	12	34.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
05.2 Foundation Construction (Pier) - S	9	10.00	0.00	281.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
04.3 Auger Holes, Direct Bury Poles - So	14	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
06.2 Structure Installation and Assem	10	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
07.1 Stringing Activities/Transfer Con	11	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
05.3 Foundation Construction (Pier) - S	9	10.00	0.00	61.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
06.3 Structure Installation and Assem	10	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
10.3 Substation Work (Escondido) below gra	4	8.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
10.4 Substation Work (Escondido) above gra	12	34.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
07.2 Stringing Activities/Transfer Con	11	20.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
09.1 Demobilization/ROW	10	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
07.3 Stringing Activities/Transfer Con	11	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
09.3 Demobilization/ROW	10	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
09.2 Demobilization/ROW	10	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
11 AC Interference Mitigation System Inst	7	8.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
12.1 Micropile Foundation Constructi	17	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
12.2 Micropile Foundation Constructi	17	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
12.3 Micropile Foundation Constructi	17	20.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 01 Pre-Construction Activities - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1004	0.0000	0.1004	0.0108	0.0000	0.0108			0.0000			0.0000
Off-Road	3.0391	29.2198	18.0755	0.0379		1.4478	1.4478		1.3320	1.3320		3,756.8400	3,756.8400	1.1886		3,786.5557
Total	**3.0391**	**29.2198**	**18.0755**	**0.0379**	**0.1004**	**1.4478**	**1.5482**	**0.0108**	**1.3320**	**1.3428**		**3,756.8400**	**3,756.8400**	**1.1886**		**3,786.5557**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0238	0.8092	0.1853	2.0800e-003	36.5551	3.0900e-003	36.5582	3.7191	2.9600e-003	3.7220		226.9090	226.9090	0.0212		227.4381
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0616	0.5848	1.6400e-003	9.8883	1.1700e-003	9.8895	1.0116	1.0800e-003	1.0126		163.3828	163.3828	5.2700e-003		163.5146
Total	**0.1126**	**0.8708**	**0.7701**	**3.7200e-003**	**46.4434**	**4.2600e-003**	**46.4476**	**4.7306**	**4.0400e-003**	**4.7347**		**390.2918**	**390.2918**	**0.0264**		**390.9527**

3.4 01 Pre-Construction Activities - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1004	0.0000	0.1004	0.0108	0.0000	0.0108			0.0000			0.0000
Off-Road	3.0391	29.2198	18.0755	0.0379		1.4478	1.4478		1.3320	1.3320	0.0000	3,756.8400	3,756.8400	1.1886		3,786.5557
Total	**3.0391**	**29.2198**	**18.0755**	**0.0379**	**0.1004**	**1.4478**	**1.5482**	**0.0108**	**1.3320**	**1.3428**	**0.0000**	**3,756.8400**	**3,756.8400**	**1.1886**		**3,786.5557**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0238	0.8092	0.1853	2.0800e-003	36.5551	3.0900e-003	36.5582	3.7191	2.9600e-003	3.7220		226.9090	226.9090	0.0212		227.4381
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0616	0.5848	1.6400e-003	9.8883	1.1700e-003	9.8895	1.0116	1.0800e-003	1.0126		163.3828	163.3828	5.2700e-003		163.5146
Total	**0.1126**	**0.8708**	**0.7701**	**3.7200e-003**	**46.4434**	**4.2600e-003**	**46.4476**	**4.7306**	**4.0400e-003**	**4.7347**		**390.2918**	**390.2918**	**0.0264**		**390.9527**

3.4 01 Pre-Construction Activities - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1004	0.0000	0.1004	0.0108	0.0000	0.0108			0.0000			0.0000
Off-Road	2.7841	25.9162	17.6890	0.0380		1.2800	1.2800		1.1776	1.1776		3,676.1209	3,676.1209	1.1889		3,705.8442
Total	**2.7841**	**25.9162**	**17.6890**	**0.0380**	**0.1004**	**1.2800**	**1.3804**	**0.0108**	**1.1776**	**1.1885**		**3,676.1209**	**3,676.1209**	**1.1889**		**3,705.8442**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0217	0.7511	0.1801	2.0500e-003	2.6216	2.4200e-003	2.6240	0.2695	2.3200e-003	0.2718		224.4361	224.4361	0.0208		224.9562
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.1048**	**0.8066**	**0.7146**	**3.6400e-003**	**12.5099**	**3.5700e-003**	**12.5135**	**1.2810**	**3.3800e-003**	**1.2844**		**382.6625**	**382.6625**	**0.0256**		**383.3017**

3.4 01 Pre-Construction Activities - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1004	0.0000	0.1004	0.0108	0.0000	0.0108			0.0000			0.0000
Off-Road	2.7841	25.9162	17.6890	0.0380		1.2800	1.2800		1.1776	1.1776	0.0000	3,676.1209	3,676.1209	1.1889		3,705.8442
Total	**2.7841**	**25.9162**	**17.6890**	**0.0380**	**0.1004**	**1.2800**	**1.3804**	**0.0108**	**1.1776**	**1.1885**	**0.0000**	**3,676.1209**	**3,676.1209**	**1.1889**		**3,705.8442**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0217	0.7511	0.1801	2.0500e-003	2.6216	2.4200e-003	2.6240	0.2695	2.3200e-003	0.2718		224.4361	224.4361	0.0208		224.9562
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.1048**	**0.8066**	**0.7146**	**3.6400e-003**	**12.5099**	**3.5700e-003**	**12.5135**	**1.2810**	**3.3800e-003**	**1.2844**		**382.6625**	**382.6625**	**0.0256**		**383.3017**

3.5 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Grading - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Architectural Coating - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.9 02 Access Road Construction/Refreshing - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0480	0.0000	0.0480	5.1800e-003	0.0000	5.1800e-003			0.0000			0.0000
Off-Road	1.3250	12.9684	7.4764	0.0195		0.5793	0.5793		0.5330	0.5330		1,892.6562	1,892.6562	0.6121		1,907.9593
Total	**1.3250**	**12.9684**	**7.4764**	**0.0195**	**0.0480**	**0.5793**	**0.6273**	**5.1800e-003**	**0.5330**	**0.5381**		**1,892.6562**	**1,892.6562**	**0.6121**		**1,907.9593**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6000e-004	8.9400e-003	2.1400e-003	2.0000e-005	0.0291	3.0000e-005	0.0292	3.0000e-003	3.0000e-005	3.0200e-003		2.6719	2.6719	2.5000e-004		2.6781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0418**	**0.0367**	**0.2694**	**8.1000e-004**	**4.9733**	**6.1000e-004**	**4.9739**	**0.5088**	**5.6000e-004**	**0.5093**		**81.7851**	**81.7851**	**2.6300e-003**		**81.8508**

3.9 02 Access Road Construction/Refreshing - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0480	0.0000	0.0480	5.1800e-003	0.0000	5.1800e-003			0.0000			0.0000
Off-Road	1.3250	12.9684	7.4764	0.0195		0.5793	0.5793		0.5330	0.5330	0.0000	1,892.6562	1,892.6562	0.6121		1,907.9593
Total	**1.3250**	**12.9684**	**7.4764**	**0.0195**	**0.0480**	**0.5793**	**0.6273**	**5.1800e-003**	**0.5330**	**0.5381**	**0.0000**	**1,892.6562**	**1,892.6562**	**0.6121**		**1,907.9593**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6000e-004	8.9400e-003	2.1400e-003	2.0000e-005	0.0291	3.0000e-005	0.0292	3.0000e-003	3.0000e-005	3.0200e-003		2.6719	2.6719	2.5000e-004		2.6781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0418**	**0.0367**	**0.2694**	**8.1000e-004**	**4.9733**	**6.1000e-004**	**4.9739**	**0.5088**	**5.6000e-004**	**0.5093**		**81.7851**	**81.7851**	**2.6300e-003**		**81.8508**

3.10 03 Material Haul - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6250	7.0450	3.3901	7.6700e-003		0.3307	0.3307		0.3042	0.3042		742.8019	742.8019	0.2402		748.8078
Total	**0.6250**	**7.0450**	**3.3901**	**7.6700e-003**	**0.0000**	**0.3307**	**0.3307**	**0.0000**	**0.3042**	**0.3042**		**742.8019**	**742.8019**	**0.2402**		**748.8078**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0416**	**0.0278**	**0.2673**	**7.9000e-004**	**4.9442**	**5.8000e-004**	**4.9447**	**0.5058**	**5.3000e-004**	**0.5063**		**79.1132**	**79.1132**	**2.3800e-003**		**79.1727**

3.10 03 Material Haul - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6250	7.0450	3.3901	7.6700e-003		0.3307	0.3307		0.3042	0.3042	0.0000	742.8019	742.8019	0.2402		748.8078
Total	**0.6250**	**7.0450**	**3.3901**	**7.6700e-003**	**0.0000**	**0.3307**	**0.3307**	**0.0000**	**0.3042**	**0.3042**	**0.0000**	**742.8019**	**742.8019**	**0.2402**		**748.8078**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0416**	**0.0278**	**0.2673**	**7.9000e-004**	**4.9442**	**5.8000e-004**	**4.9447**	**0.5058**	**5.3000e-004**	**0.5063**		**79.1132**	**79.1132**	**2.3800e-003**		**79.1727**

3.11 04.1 Auger Holes, Direct Bury Poles - Seg 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.8200e-003	0.0000	6.8200e-003	7.4000e-004	0.0000	7.4000e-004			0.0000			0.0000
Off-Road	3.0035	28.3088	19.0510	0.0525		1.2097	1.2097		1.1248	1.1248		5,075.4727	5,075.4727	1.5492		5,114.2026
Total	**3.0035**	**28.3088**	**19.0510**	**0.0525**	**6.8200e-003**	**1.2097**	**1.2165**	**7.4000e-004**	**1.1248**	**1.1255**		**5,075.4727**	**5,075.4727**	**1.5492**		**5,114.2026**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.8000e-004	0.0201	4.8200e-003	5.0000e-005	0.0656	6.0000e-005	0.0656	6.7400e-003	6.0000e-005	6.8100e-003		6.0117	6.0117	5.6000e-004		6.0256
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0837**	**0.0756**	**0.5393**	**1.6400e-003**	**9.9539**	**1.2100e-003**	**9.9551**	**1.0183**	**1.1200e-003**	**1.0194**		**164.2381**	**164.2381**	**5.3200e-003**		**164.3711**

3.11 04.1 Auger Holes, Direct Bury Poles - Seg 1 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.8200e-003	0.0000	6.8200e-003	7.4000e-004	0.0000	7.4000e-004			0.0000			0.0000
Off-Road	3.0035	28.3088	19.0510	0.0525		1.2097	1.2097		1.1248	1.1248	0.0000	5,075.4727	5,075.4727	1.5492		5,114.2026
Total	**3.0035**	**28.3088**	**19.0510**	**0.0525**	**6.8200e-003**	**1.2097**	**1.2165**	**7.4000e-004**	**1.1248**	**1.1255**	**0.0000**	**5,075.4727**	**5,075.4727**	**1.5492**		**5,114.2026**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.8000e-004	0.0201	4.8200e-003	5.0000e-005	0.0656	6.0000e-005	0.0656	6.7400e-003	6.0000e-005	6.8100e-003		6.0117	6.0117	5.6000e-004		6.0256
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0837**	**0.0756**	**0.5393**	**1.6400e-003**	**9.9539**	**1.2100e-003**	**9.9551**	**1.0183**	**1.1200e-003**	**1.0194**		**164.2381**	**164.2381**	**5.3200e-003**		**164.3711**

3.12 05.1 Foundation Construction (Pier) - Seg 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004			0.0000			0.0000
Off-Road	1.2934	11.7070	10.1707	0.0213		0.5723	0.5723		0.5383	0.5383		2,054.1743	2,054.1743	0.5558		2,068.0692
Total	**1.2934**	**11.7070**	**10.1707**	**0.0213**	**1.3300e-003**	**0.5723**	**0.5736**	**1.4000e-004**	**0.5383**	**0.5384**		**2,054.1743**	**2,054.1743**	**0.5558**		**2,068.0692**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0117	2.8100e-003	3.0000e-005	0.0382	4.0000e-005	0.0383	3.9300e-003	4.0000e-005	3.9700e-003		3.5068	3.5068	3.3000e-004		3.5149
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0419**	**0.0395**	**0.2701**	**8.2000e-004**	**4.9824**	**6.2000e-004**	**4.9830**	**0.5097**	**5.7000e-004**	**0.5103**		**82.6200**	**82.6200**	**2.7100e-003**		**82.6877**

3.12 05.1 Foundation Construction (Pier) - Seg 1 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004			0.0000			0.0000
Off-Road	1.2934	11.7070	10.1707	0.0213		0.5723	0.5723		0.5383	0.5383	0.0000	2,054.1743	2,054.1743	0.5558		2,068.0692
Total	**1.2934**	**11.7070**	**10.1707**	**0.0213**	**1.3300e-003**	**0.5723**	**0.5736**	**1.4000e-004**	**0.5383**	**0.5384**	**0.0000**	**2,054.1743**	**2,054.1743**	**0.5558**		**2,068.0692**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0117	2.8100e-003	3.0000e-005	0.0382	4.0000e-005	0.0383	3.9300e-003	4.0000e-005	3.9700e-003		3.5068	3.5068	3.3000e-004		3.5149
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0419**	**0.0395**	**0.2701**	**8.2000e-004**	**4.9824**	**6.2000e-004**	**4.9830**	**0.5097**	**5.7000e-004**	**0.5103**		**82.6200**	**82.6200**	**2.7100e-003**		**82.6877**

3.13 11 AC Interference Mitigation System Installation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.4172	34.1305	22.9659	0.0689		1.3144	1.3144		1.2092	1.2092		6,670.3450	6,670.3450	2.1573		6,724.2781
Total	**3.4172**	**34.1305**	**22.9659**	**0.0689**	**0.0000**	**1.3144**	**1.3144**	**0.0000**	**1.2092**	**1.2092**		**6,670.3450**	**6,670.3450**	**2.1573**		**6,724.2781**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-004	3.6600e-003	8.8000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.4000e-004	6.0000e-005	1.0000e-005	7.0000e-005		1.0930	1.0930	1.0000e-004		1.0956
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0333	0.0222	0.2138	6.4000e-004	0.0657	4.6000e-004	0.0662	0.0174	4.2000e-004	0.0179		63.2906	63.2906	1.9100e-003		63.3382
Total	**0.0334**	**0.0259**	**0.2147**	**6.5000e-004**	**0.0660**	**4.7000e-004**	**0.0664**	**0.0175**	**4.3000e-004**	**0.0179**		**64.3836**	**64.3836**	**2.0100e-003**		**64.4338**

3.13 11 AC Interference Mitigation System Installation - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.4172	34.1305	22.9659	0.0689		1.3144	1.3144		1.2092	1.2092	0.0000	6,670.3450	6,670.3450	2.1573		6,724.2781
Total	**3.4172**	**34.1305**	**22.9659**	**0.0689**	**0.0000**	**1.3144**	**1.3144**	**0.0000**	**1.2092**	**1.2092**	**0.0000**	**6,670.3450**	**6,670.3450**	**2.1573**		**6,724.2781**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-004	3.6600e-003	8.8000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.4000e-004	6.0000e-005	1.0000e-005	7.0000e-005		1.0930	1.0930	1.0000e-004		1.0956
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0333	0.0222	0.2138	6.4000e-004	0.0657	4.6000e-004	0.0662	0.0174	4.2000e-004	0.0179		63.2906	63.2906	1.9100e-003		63.3382
Total	**0.0334**	**0.0259**	**0.2147**	**6.5000e-004**	**0.0660**	**4.7000e-004**	**0.0664**	**0.0175**	**4.3000e-004**	**0.0179**		**64.3836**	**64.3836**	**2.0100e-003**		**64.4338**

3.14 12.1 Micropile Foundation Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6989	25.3353	16.9143	0.0433		1.1692	1.1692		1.1002	1.1002		4,172.2973	4,172.2973	1.1138		4,200.1411
Total	**2.6989**	**25.3353**	**16.9143**	**0.0433**	**0.0000**	**1.1692**	**1.1692**	**0.0000**	**1.1002**	**1.1002**		**4,172.2973**	**4,172.2973**	**1.1138**		**4,200.1411**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1000e-004	7.2200e-003	1.7300e-003	2.0000e-005	4.5000e-004	2.0000e-005	4.7000e-004	1.2000e-004	2.0000e-005	1.5000e-004		2.1580	2.1580	2.0000e-004		2.1630
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0833**	**0.0627**	**0.5362**	**1.6100e-003**	**0.1648**	**1.1700e-003**	**0.1659**	**0.0437**	**1.0800e-003**	**0.0448**		**160.3844**	**160.3844**	**4.9600e-003**		**160.5085**

3.14 12.1 Micropile Foundation Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6989	25.3353	16.9143	0.0433		1.1692	1.1692		1.1002	1.1002	0.0000	4,172.2973	4,172.2973	1.1138		4,200.1411
Total	**2.6989**	**25.3353**	**16.9143**	**0.0433**	**0.0000**	**1.1692**	**1.1692**	**0.0000**	**1.1002**	**1.1002**	**0.0000**	**4,172.2973**	**4,172.2973**	**1.1138**		**4,200.1411**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1000e-004	7.2200e-003	1.7300e-003	2.0000e-005	4.5000e-004	2.0000e-005	4.7000e-004	1.2000e-004	2.0000e-005	1.5000e-004		2.1580	2.1580	2.0000e-004		2.1630
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0833**	**0.0627**	**0.5362**	**1.6100e-003**	**0.1648**	**1.1700e-003**	**0.1659**	**0.0437**	**1.0800e-003**	**0.0448**		**160.3844**	**160.3844**	**4.9600e-003**		**160.5085**

3.15 04.2 Auger Holes, Direct Bury Poles - Seg 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3700e-003	0.0000	1.3700e-003	1.5000e-004	0.0000	1.5000e-004			0.0000			0.0000
Off-Road	3.0035	28.3088	19.0510	0.0525		1.2097	1.2097		1.1248	1.1248		5,075.4727	5,075.4727	1.5492		5,114.2026
Total	**3.0035**	**28.3088**	**19.0510**	**0.0525**	**1.3700e-003**	**1.2097**	**1.2111**	**1.5000e-004**	**1.1248**	**1.1249**		**5,075.4727**	**5,075.4727**	**1.5492**		**5,114.2026**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6000e-004	9.0900e-003	2.1800e-003	2.0000e-005	0.0296	3.0000e-005	0.0296	3.0500e-003	3.0000e-005	3.0700e-003		2.7150	2.7150	2.5000e-004		2.7212
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0834**	**0.0646**	**0.5367**	**1.6100e-003**	**9.9179**	**1.1800e-003**	**9.9191**	**1.0146**	**1.0900e-003**	**1.0157**		**160.9413**	**160.9413**	**5.0100e-003**		**161.0667**

3.15 04.2 Auger Holes, Direct Bury Poles - Seg 2 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3700e-003	0.0000	1.3700e-003	1.5000e-004	0.0000	1.5000e-004			0.0000			0.0000
Off-Road	3.0035	28.3088	19.0510	0.0525		1.2097	1.2097		1.1248	1.1248	0.0000	5,075.4727	5,075.4727	1.5492		5,114.2026
Total	**3.0035**	**28.3088**	**19.0510**	**0.0525**	**1.3700e-003**	**1.2097**	**1.2111**	**1.5000e-004**	**1.1248**	**1.1249**	**0.0000**	**5,075.4727**	**5,075.4727**	**1.5492**		**5,114.2026**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6000e-004	9.0900e-003	2.1800e-003	2.0000e-005	0.0296	3.0000e-005	0.0296	3.0500e-003	3.0000e-005	3.0700e-003		2.7150	2.7150	2.5000e-004		2.7212
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0834**	**0.0646**	**0.5367**	**1.6100e-003**	**9.9179**	**1.1800e-003**	**9.9191**	**1.0146**	**1.0900e-003**	**1.0157**		**160.9413**	**160.9413**	**5.0100e-003**		**161.0667**

3.16 06.1 Structure Installation and Assembly - Seg 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0110	0.0000	0.0110	1.1800e-003	0.0000	1.1800e-003			0.0000			0.0000
Off-Road	3.1076	28.3564	15.7325	0.0549		1.1048	1.1048		1.0164	1.0164		5,317.4604	5,317.4604	1.7198		5,360.4547
Total	**3.1076**	**28.3564**	**15.7325**	**0.0549**	**0.0110**	**1.1048**	**1.1158**	**1.1800e-003**	**1.0164**	**1.0176**		**5,317.4604**	**5,317.4604**	**1.7198**		**5,360.4547**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0831**	**0.0555**	**0.5345**	**1.5900e-003**	**9.8883**	**1.1500e-003**	**9.8895**	**1.0116**	**1.0600e-003**	**1.0126**		**158.2264**	**158.2264**	**4.7600e-003**		**158.3455**

3.16 06.1 Structure Installation and Assembly - Seg 1 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0110	0.0000	0.0110	1.1800e-003	0.0000	1.1800e-003			0.0000			0.0000
Off-Road	3.1076	28.3564	15.7325	0.0549		1.1048	1.1048		1.0164	1.0164	0.0000	5,317.4604	5,317.4604	1.7198		5,360.4547
Total	**3.1076**	**28.3564**	**15.7325**	**0.0549**	**0.0110**	**1.1048**	**1.1158**	**1.1800e-003**	**1.0164**	**1.0176**	**0.0000**	**5,317.4604**	**5,317.4604**	**1.7198**		**5,360.4547**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0831**	**0.0555**	**0.5345**	**1.5900e-003**	**9.8883**	**1.1500e-003**	**9.8895**	**1.0116**	**1.0600e-003**	**1.0126**		**158.2264**	**158.2264**	**4.7600e-003**		**158.3455**

3.17 10.1 Substation Work (San Marcos) below grade - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7688	8.5937	4.1003	0.0144		0.3208	0.3208		0.2951	0.2951		1,398.4910	1,398.4910	0.4523		1,409.7985
Total	**0.7688**	**8.5937**	**4.1003**	**0.0144**	**0.0000**	**0.3208**	**0.3208**	**0.0000**	**0.2951**	**0.2951**		**1,398.4910**	**1,398.4910**	**0.4523**		**1,409.7985**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.4000e-004	0.0188	4.5000e-003	5.0000e-005	0.0992	6.0000e-005	0.0993	0.0101	6.0000e-005	0.0102		5.6109	5.6109	5.2000e-004		5.6239
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0333	0.0222	0.2138	6.4000e-004	6.4205	4.6000e-004	6.4210	0.6511	4.2000e-004	0.6516		63.2906	63.2906	1.9100e-003		63.3382
Total	**0.0338**	**0.0410**	**0.2183**	**6.9000e-004**	**6.5197**	**5.2000e-004**	**6.5203**	**0.6612**	**4.8000e-004**	**0.6617**		**68.9015**	**68.9015**	**2.4300e-003**		**68.9621**

3.17 10.1 Substation Work (San Marcos) below grade - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7688	8.5937	4.1003	0.0144		0.3208	0.3208		0.2951	0.2951	0.0000	1,398.4910	1,398.4910	0.4523		1,409.7985
Total	**0.7688**	**8.5937**	**4.1003**	**0.0144**	**0.0000**	**0.3208**	**0.3208**	**0.0000**	**0.2951**	**0.2951**	**0.0000**	**1,398.4910**	**1,398.4910**	**0.4523**		**1,409.7985**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.4000e-004	0.0188	4.5000e-003	5.0000e-005	0.0992	6.0000e-005	0.0993	0.0101	6.0000e-005	0.0102		5.6109	5.6109	5.2000e-004		5.6239
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0333	0.0222	0.2138	6.4000e-004	6.4205	4.6000e-004	6.4210	0.6511	4.2000e-004	0.6516		63.2906	63.2906	1.9100e-003		63.3382
Total	**0.0338**	**0.0410**	**0.2183**	**6.9000e-004**	**6.5197**	**5.2000e-004**	**6.5203**	**0.6612**	**4.8000e-004**	**0.6617**		**68.9015**	**68.9015**	**2.4300e-003**		**68.9621**

3.18 08 Trenching for Installation of Undergound Cables - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0800e-003	0.0000	1.0800e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	1.6350	16.2307	9.6153	0.0271		0.7245	0.7245		0.6665	0.6665		2,623.2328	2,623.2328	0.8484		2,644.4430
Total	**1.6350**	**16.2307**	**9.6153**	**0.0271**	**1.0800e-003**	**0.7245**	**0.7255**	**1.2000e-004**	**0.6665**	**0.6666**		**2,623.2328**	**2,623.2328**	**0.8484**		**2,644.4430**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0416**	**0.0278**	**0.2673**	**7.9000e-004**	**4.9442**	**5.8000e-004**	**4.9447**	**0.5058**	**5.3000e-004**	**0.5063**		**79.1132**	**79.1132**	**2.3800e-003**		**79.1727**

3.18 08 Trenching for Installation of Undergound Cables - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0800e-003	0.0000	1.0800e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	1.6350	16.2307	9.6153	0.0271		0.7245	0.7245		0.6665	0.6665	0.0000	2,623.2328	2,623.2328	0.8484		2,644.4430
Total	**1.6350**	**16.2307**	**9.6153**	**0.0271**	**1.0800e-003**	**0.7245**	**0.7255**	**1.2000e-004**	**0.6665**	**0.6666**	**0.0000**	**2,623.2328**	**2,623.2328**	**0.8484**		**2,644.4430**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0416**	**0.0278**	**0.2673**	**7.9000e-004**	**4.9442**	**5.8000e-004**	**4.9447**	**0.5058**	**5.3000e-004**	**0.5063**		**79.1132**	**79.1132**	**2.3800e-003**		**79.1727**

3.19 10.2 Substation Work (San Marcos) above grade - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1471	10.6018	5.8220	0.0205		0.4096	0.4096		0.3769	0.3769		1,985.1659	1,985.1659	0.6420		2,001.2170
Total	**1.1471**	**10.6018**	**5.8220**	**0.0205**		**0.4096**	**0.4096**		**0.3769**	**0.3769**		**1,985.1659**	**1,985.1659**	**0.6420**		**2,001.2170**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.4000e-004	0.0188	4.5000e-003	5.0000e-005	0.0992	6.0000e-005	0.0993	0.0101	6.0000e-005	0.0102		5.6109	5.6109	5.2000e-004		5.6239
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1413	0.0944	0.9086	2.7000e-003	27.2872	1.9600e-003	27.2891	2.7674	1.8100e-003	2.7692		268.9849	268.9849	8.1000e-003		269.1873
Total	**0.1419**	**0.1132**	**0.9131**	**2.7500e-003**	**27.3864**	**2.0200e-003**	**27.3884**	**2.7775**	**1.8700e-003**	**2.7793**		**274.5958**	**274.5958**	**8.6200e-003**		**274.8112**

3.19 10.2 Substation Work (San Marcos) above grade - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1471	10.6018	5.8220	0.0205		0.4096	0.4096		0.3769	0.3769	0.0000	1,985.1659	1,985.1659	0.6420		2,001.2170
Total	**1.1471**	**10.6018**	**5.8220**	**0.0205**		**0.4096**	**0.4096**		**0.3769**	**0.3769**	**0.0000**	**1,985.1659**	**1,985.1659**	**0.6420**		**2,001.2170**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.4000e-004	0.0188	4.5000e-003	5.0000e-005	0.0992	6.0000e-005	0.0993	0.0101	6.0000e-005	0.0102		5.6109	5.6109	5.2000e-004		5.6239
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1413	0.0944	0.9086	2.7000e-003	27.2872	1.9600e-003	27.2891	2.7674	1.8100e-003	2.7692		268.9849	268.9849	8.1000e-003		269.1873
Total	**0.1419**	**0.1132**	**0.9131**	**2.7500e-003**	**27.3864**	**2.0200e-003**	**27.3884**	**2.7775**	**1.8700e-003**	**2.7793**		**274.5958**	**274.5958**	**8.6200e-003**		**274.8112**

3.20 05.2 Foundation Construction (Pier) - Seg 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0336	0.0000	0.0336	3.9900e-003	0.0000	3.9900e-003			0.0000			0.0000
Off-Road	1.2934	11.7070	10.1707	0.0213		0.5723	0.5723		0.5383	0.5383		2,054.1743	2,054.1743	0.5558		2,068.0692
Total	**1.2934**	**11.7070**	**10.1707**	**0.0213**	**0.0336**	**0.5723**	**0.6059**	**3.9900e-003**	**0.5383**	**0.5423**		**2,054.1743**	**2,054.1743**	**0.5558**		**2,068.0692**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0296	1.0278	0.2464	2.8100e-003	3.3495	3.3200e-003	3.3529	0.3446	3.1700e-003	0.3477		307.1423	307.1423	0.0285		307.8540
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0712**	**1.0556**	**0.5137**	**3.6000e-003**	**8.2937**	**3.9000e-003**	**8.2976**	**0.8503**	**3.7000e-003**	**0.8540**		**386.2555**	**386.2555**	**0.0309**		**387.0268**

3.20 05.2 Foundation Construction (Pier) - Seg 2 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0336	0.0000	0.0336	3.9900e-003	0.0000	3.9900e-003			0.0000			0.0000
Off-Road	1.2934	11.7070	10.1707	0.0213		0.5723	0.5723		0.5383	0.5383	0.0000	2,054.1743	2,054.1743	0.5558		2,068.0692
Total	**1.2934**	**11.7070**	**10.1707**	**0.0213**	**0.0336**	**0.5723**	**0.6059**	**3.9900e-003**	**0.5383**	**0.5423**	**0.0000**	**2,054.1743**	**2,054.1743**	**0.5558**		**2,068.0692**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0296	1.0278	0.2464	2.8100e-003	3.3495	3.3200e-003	3.3529	0.3446	3.1700e-003	0.3477		307.1423	307.1423	0.0285		307.8540
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0712**	**1.0556**	**0.5137**	**3.6000e-003**	**8.2937**	**3.9000e-003**	**8.2976**	**0.8503**	**3.7000e-003**	**0.8540**		**386.2555**	**386.2555**	**0.0309**		**387.0268**

3.21 04.3 Auger Holes, Direct Bury Poles - Seg 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3000e-003	0.0000	5.3000e-003	5.7000e-004	0.0000	5.7000e-004			0.0000			0.0000
Off-Road	3.0035	28.3088	19.0510	0.0525		1.2097	1.2097		1.1248	1.1248		5,075.4727	5,075.4727	1.5492		5,114.2026
Total	**3.0035**	**28.3088**	**19.0510**	**0.0525**	**5.3000e-003**	**1.2097**	**1.2150**	**5.7000e-004**	**1.1248**	**1.1253**		**5,075.4727**	**5,075.4727**	**1.5492**		**5,114.2026**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.0600e-003	0.1408	0.0338	3.8000e-004	0.4589	4.5000e-004	0.4594	0.0472	4.3000e-004	0.0476		42.0818	42.0818	3.9000e-003		42.1793
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0872**	**0.1963**	**0.5683**	**1.9700e-003**	**10.3472**	**1.6000e-003**	**10.3489**	**1.0588**	**1.4900e-003**	**1.0603**		**200.3082**	**200.3082**	**8.6600e-003**		**200.5248**

3.21 04.3 Auger Holes, Direct Bury Poles - Seg 3 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3000e-003	0.0000	5.3000e-003	5.7000e-004	0.0000	5.7000e-004			0.0000			0.0000
Off-Road	3.0035	28.3088	19.0510	0.0525		1.2097	1.2097		1.1248	1.1248	0.0000	5,075.4727	5,075.4727	1.5492		5,114.2026
Total	**3.0035**	**28.3088**	**19.0510**	**0.0525**	**5.3000e-003**	**1.2097**	**1.2150**	**5.7000e-004**	**1.1248**	**1.1253**	**0.0000**	**5,075.4727**	**5,075.4727**	**1.5492**		**5,114.2026**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.0600e-003	0.1408	0.0338	3.8000e-004	0.4589	4.5000e-004	0.4594	0.0472	4.3000e-004	0.0476		42.0818	42.0818	3.9000e-003		42.1793
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0872**	**0.1963**	**0.5683**	**1.9700e-003**	**10.3472**	**1.6000e-003**	**10.3489**	**1.0588**	**1.4900e-003**	**1.0603**		**200.3082**	**200.3082**	**8.6600e-003**		**200.5248**

3.22 06.2 Structure Installation and Assembly - Seg 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.9800e-003	0.0000	9.9800e-003	1.0800e-003	0.0000	1.0800e-003			0.0000			0.0000
Off-Road	3.1076	28.3564	15.7325	0.0549		1.1048	1.1048		1.0164	1.0164		5,317.4604	5,317.4604	1.7198		5,360.4547
Total	**3.1076**	**28.3564**	**15.7325**	**0.0549**	**9.9800e-003**	**1.1048**	**1.1148**	**1.0800e-003**	**1.0164**	**1.0175**		**5,317.4604**	**5,317.4604**	**1.7198**		**5,360.4547**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2000e-004	4.1400e-003	9.9000e-004	1.0000e-005	0.0135	1.0000e-005	0.0135	1.3900e-003	1.0000e-005	1.4000e-003		1.2377	1.2377	1.1000e-004		1.2406
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0832**	**0.0597**	**0.5355**	**1.6000e-003**	**9.9018**	**1.1600e-003**	**9.9030**	**1.0130**	**1.0700e-003**	**1.0140**		**159.4641**	**159.4641**	**4.8700e-003**		**159.5861**

3.22 06.2 Structure Installation and Assembly - Seg 2 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.9800e-003	0.0000	9.9800e-003	1.0800e-003	0.0000	1.0800e-003			0.0000			0.0000
Off-Road	3.1076	28.3564	15.7325	0.0549		1.1048	1.1048		1.0164	1.0164	0.0000	5,317.4604	5,317.4604	1.7198		5,360.4547
Total	**3.1076**	**28.3564**	**15.7325**	**0.0549**	**9.9800e-003**	**1.1048**	**1.1148**	**1.0800e-003**	**1.0164**	**1.0175**	**0.0000**	**5,317.4604**	**5,317.4604**	**1.7198**		**5,360.4547**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2000e-004	4.1400e-003	9.9000e-004	1.0000e-005	0.0135	1.0000e-005	0.0135	1.3900e-003	1.0000e-005	1.4000e-003		1.2377	1.2377	1.1000e-004		1.2406
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0832**	**0.0597**	**0.5355**	**1.6000e-003**	**9.9018**	**1.1600e-003**	**9.9030**	**1.0130**	**1.0700e-003**	**1.0140**		**159.4641**	**159.4641**	**4.8700e-003**		**159.5861**

3.23 07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8200e-003	0.0000	4.8200e-003	5.2000e-004	0.0000	5.2000e-004			0.0000			0.0000
Off-Road	2.6392	26.0468	15.1818	0.0494		1.0084	1.0084		0.9277	0.9277		4,786.9922	4,786.9922	1.5482		4,825.6975
Total	**2.6392**	**26.0468**	**15.1818**	**0.0494**	**4.8200e-003**	**1.0084**	**1.0132**	**5.2000e-004**	**0.9277**	**0.9283**		**4,786.9922**	**4,786.9922**	**1.5482**		**4,825.6975**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5000e-004	5.1200e-003	1.2300e-003	1.0000e-005	0.0167	2.0000e-005	0.0167	1.7200e-003	2.0000e-005	1.7300e-003		1.5303	1.5303	1.4000e-004		1.5338
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0833**	**0.0606**	**0.5357**	**1.6000e-003**	**9.9050**	**1.1700e-003**	**9.9062**	**1.0133**	**1.0800e-003**	**1.0144**		**159.7566**	**159.7566**	**4.9000e-003**		**159.8793**

3.23 07.1 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 1 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8200e-003	0.0000	4.8200e-003	5.2000e-004	0.0000	5.2000e-004			0.0000			0.0000
Off-Road	2.6392	26.0468	15.1818	0.0494		1.0084	1.0084		0.9277	0.9277	0.0000	4,786.9922	4,786.9922	1.5482		4,825.6975
Total	**2.6392**	**26.0468**	**15.1818**	**0.0494**	**4.8200e-003**	**1.0084**	**1.0132**	**5.2000e-004**	**0.9277**	**0.9283**	**0.0000**	**4,786.9922**	**4,786.9922**	**1.5482**		**4,825.6975**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5000e-004	5.1200e-003	1.2300e-003	1.0000e-005	0.0167	2.0000e-005	0.0167	1.7200e-003	2.0000e-005	1.7300e-003		1.5303	1.5303	1.4000e-004		1.5338
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0833**	**0.0606**	**0.5357**	**1.6000e-003**	**9.9050**	**1.1700e-003**	**9.9062**	**1.0133**	**1.0800e-003**	**1.0144**		**159.7566**	**159.7566**	**4.9000e-003**		**159.8793**

3.24 12.2 Micropile Foundation Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6989	25.3353	16.9143	0.0433		1.1692	1.1692		1.1002	1.1002		4,172.2973	4,172.2973	1.1138		4,200.1411
Total	**2.6989**	**25.3353**	**16.9143**	**0.0433**	**0.0000**	**1.1692**	**1.1692**	**0.0000**	**1.1002**	**1.1002**		**4,172.2973**	**4,172.2973**	**1.1138**		**4,200.1411**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-004	3.7600e-003	9.0000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.5000e-004	6.0000e-005	1.0000e-005	8.0000e-005		1.1222	1.1222	1.0000e-004		1.1248
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0832**	**0.0593**	**0.5354**	**1.6000e-003**	**0.1645**	**1.1600e-003**	**0.1657**	**0.0436**	**1.0700e-003**	**0.0447**		**159.3486**	**159.3486**	**4.8600e-003**		**159.4703**

3.24 12.2 Micropile Foundation Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6989	25.3353	16.9143	0.0433		1.1692	1.1692		1.1002	1.1002	0.0000	4,172.2973	4,172.2973	1.1138		4,200.1411
Total	**2.6989**	**25.3353**	**16.9143**	**0.0433**	**0.0000**	**1.1692**	**1.1692**	**0.0000**	**1.1002**	**1.1002**	**0.0000**	**4,172.2973**	**4,172.2973**	**1.1138**		**4,200.1411**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-004	3.7600e-003	9.0000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.5000e-004	6.0000e-005	1.0000e-005	8.0000e-005		1.1222	1.1222	1.0000e-004		1.1248
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0832**	**0.0593**	**0.5354**	**1.6000e-003**	**0.1645**	**1.1600e-003**	**0.1657**	**0.0436**	**1.0700e-003**	**0.0447**		**159.3486**	**159.3486**	**4.8600e-003**		**159.4703**

3.25 12.3 Micropile Foundation Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6989	25.3353	16.9143	0.0433		1.1692	1.1692		1.1002	1.1002		4,172.2973	4,172.2973	1.1138		4,200.1411
Total	**2.6989**	**25.3353**	**16.9143**	**0.0433**	**0.0000**	**1.1692**	**1.1692**	**0.0000**	**1.1002**	**1.1002**		**4,172.2973**	**4,172.2973**	**1.1138**		**4,200.1411**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4000e-004	0.0256	6.1400e-003	7.0000e-005	1.5900e-003	8.0000e-005	1.6700e-003	4.4000e-004	8.0000e-005	5.1000e-004		7.6512	7.6512	7.1000e-004		7.6690
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0839**	**0.0811**	**0.5406**	**1.6600e-003**	**0.1659**	**1.2300e-003**	**0.1671**	**0.0440**	**1.1400e-003**	**0.0452**		**165.8776**	**165.8776**	**5.4700e-003**		**166.0145**

3.25 12.3 Micropile Foundation Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6989	25.3353	16.9143	0.0433		1.1692	1.1692		1.1002	1.1002	0.0000	4,172.2973	4,172.2973	1.1138		4,200.1411
Total	**2.6989**	**25.3353**	**16.9143**	**0.0433**	**0.0000**	**1.1692**	**1.1692**	**0.0000**	**1.1002**	**1.1002**	**0.0000**	**4,172.2973**	**4,172.2973**	**1.1138**		**4,200.1411**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4000e-004	0.0256	6.1400e-003	7.0000e-005	1.5900e-003	8.0000e-005	1.6700e-003	4.4000e-004	8.0000e-005	5.1000e-004		7.6512	7.6512	7.1000e-004		7.6690
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	0.1643	1.1500e-003	0.1655	0.0436	1.0600e-003	0.0446		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0839**	**0.0811**	**0.5406**	**1.6600e-003**	**0.1659**	**1.2300e-003**	**0.1671**	**0.0440**	**1.1400e-003**	**0.0452**		**165.8776**	**165.8776**	**5.4700e-003**		**166.0145**

3.26 05.3 Foundation Construction (Pier) - Seg 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0631	0.0000	0.0631	7.3300e-003	0.0000	7.3300e-003			0.0000			0.0000
Off-Road	1.2934	11.7070	10.1707	0.0213		0.5723	0.5723		0.5383	0.5383		2,054.1743	2,054.1743	0.5558		2,068.0692
Total	**1.2934**	**11.7070**	**10.1707**	**0.0213**	**0.0631**	**0.5723**	**0.6354**	**7.3300e-003**	**0.5383**	**0.5456**		**2,054.1743**	**2,054.1743**	**0.5558**		**2,068.0692**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0451	1.5619	0.3745	4.2700e-003	5.0899	5.0400e-003	5.0949	0.5236	4.8200e-003	0.5284		466.7251	466.7251	0.0433		467.8067
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0866**	**1.5896**	**0.6417**	**5.0600e-003**	**10.0340**	**5.6200e-003**	**10.0396**	**1.0294**	**5.3500e-003**	**1.0347**		**545.8383**	**545.8383**	**0.0456**		**546.9794**

3.26 05.3 Foundation Construction (Pier) - Seg 3 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0631	0.0000	0.0631	7.3300e-003	0.0000	7.3300e-003			0.0000			0.0000
Off-Road	1.2934	11.7070	10.1707	0.0213		0.5723	0.5723		0.5383	0.5383	0.0000	2,054.1743	2,054.1743	0.5558		2,068.0692
Total	**1.2934**	**11.7070**	**10.1707**	**0.0213**	**0.0631**	**0.5723**	**0.6354**	**7.3300e-003**	**0.5383**	**0.5456**	**0.0000**	**2,054.1743**	**2,054.1743**	**0.5558**		**2,068.0692**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0451	1.5619	0.3745	4.2700e-003	5.0899	5.0400e-003	5.0949	0.5236	4.8200e-003	0.5284		466.7251	466.7251	0.0433		467.8067
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0416	0.0278	0.2673	7.9000e-004	4.9442	5.8000e-004	4.9447	0.5058	5.3000e-004	0.5063		79.1132	79.1132	2.3800e-003		79.1727
Total	**0.0866**	**1.5896**	**0.6417**	**5.0600e-003**	**10.0340**	**5.6200e-003**	**10.0396**	**1.0294**	**5.3500e-003**	**1.0347**		**545.8383**	**545.8383**	**0.0456**		**546.9794**

3.27 06.3 Structure Installation and Assembly - Seg 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0189	0.0000	0.0189	2.0400e-003	0.0000	2.0400e-003			0.0000			0.0000
Off-Road	3.1076	28.3564	15.7325	0.0549		1.1048	1.1048		1.0164	1.0164		5,317.4604	5,317.4604	1.7198		5,360.4547
Total	**3.1076**	**28.3564**	**15.7325**	**0.0549**	**0.0189**	**1.1048**	**1.1237**	**2.0400e-003**	**1.0164**	**1.0185**		**5,317.4604**	**5,317.4604**	**1.7198**		**5,360.4547**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.5000e-004	0.0157	3.7500e-003	4.0000e-005	0.0510	5.0000e-005	0.0510	5.2500e-003	5.0000e-005	5.2900e-003		4.6758	4.6758	4.3000e-004		4.6866
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0836**	**0.0712**	**0.5382**	**1.6300e-003**	**9.9393**	**1.2000e-003**	**9.9405**	**1.0168**	**1.1100e-003**	**1.0179**		**162.9021**	**162.9021**	**5.1900e-003**		**163.0321**

3.27 06.3 Structure Installation and Assembly - Seg 3 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0189	0.0000	0.0189	2.0400e-003	0.0000	2.0400e-003			0.0000			0.0000
Off-Road	3.1076	28.3564	15.7325	0.0549		1.1048	1.1048		1.0164	1.0164	0.0000	5,317.4604	5,317.4604	1.7198		5,360.4547
Total	**3.1076**	**28.3564**	**15.7325**	**0.0549**	**0.0189**	**1.1048**	**1.1237**	**2.0400e-003**	**1.0164**	**1.0185**	**0.0000**	**5,317.4604**	**5,317.4604**	**1.7198**		**5,360.4547**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.5000e-004	0.0157	3.7500e-003	4.0000e-005	0.0510	5.0000e-005	0.0510	5.2500e-003	5.0000e-005	5.2900e-003		4.6758	4.6758	4.3000e-004		4.6866
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0836**	**0.0712**	**0.5382**	**1.6300e-003**	**9.9393**	**1.2000e-003**	**9.9405**	**1.0168**	**1.1100e-003**	**1.0179**		**162.9021**	**162.9021**	**5.1900e-003**		**163.0321**

3.28 10.3 Substation Work (Escondido) below grade - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7688	8.5937	4.1003	0.0144		0.3208	0.3208		0.2951	0.2951		1,398.4910	1,398.4910	0.4523		1,409.7985
Total	**0.7688**	**8.5937**	**4.1003**	**0.0144**	**0.0000**	**0.3208**	**0.3208**	**0.0000**	**0.2951**	**0.2951**		**1,398.4910**	**1,398.4910**	**0.4523**		**1,409.7985**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.4000e-004	0.0188	4.5000e-003	5.0000e-005	0.0992	6.0000e-005	0.0993	0.0101	6.0000e-005	0.0102		5.6109	5.6109	5.2000e-004		5.6239
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0333	0.0222	0.2138	6.4000e-004	6.4205	4.6000e-004	6.4210	0.6511	4.2000e-004	0.6516		63.2906	63.2906	1.9100e-003		63.3382
Total	**0.0338**	**0.0410**	**0.2183**	**6.9000e-004**	**6.5197**	**5.2000e-004**	**6.5203**	**0.6612**	**4.8000e-004**	**0.6617**		**68.9015**	**68.9015**	**2.4300e-003**		**68.9621**

3.28 10.3 Substation Work (Escondido) below grade - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7688	8.5937	4.1003	0.0144		0.3208	0.3208		0.2951	0.2951	0.0000	1,398.4910	1,398.4910	0.4523		1,409.7985
Total	**0.7688**	**8.5937**	**4.1003**	**0.0144**	**0.0000**	**0.3208**	**0.3208**	**0.0000**	**0.2951**	**0.2951**	**0.0000**	**1,398.4910**	**1,398.4910**	**0.4523**		**1,409.7985**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.4000e-004	0.0188	4.5000e-003	5.0000e-005	0.0992	6.0000e-005	0.0993	0.0101	6.0000e-005	0.0102		5.6109	5.6109	5.2000e-004		5.6239
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0333	0.0222	0.2138	6.4000e-004	6.4205	4.6000e-004	6.4210	0.6511	4.2000e-004	0.6516		63.2906	63.2906	1.9100e-003		63.3382
Total	**0.0338**	**0.0410**	**0.2183**	**6.9000e-004**	**6.5197**	**5.2000e-004**	**6.5203**	**0.6612**	**4.8000e-004**	**0.6617**		**68.9015**	**68.9015**	**2.4300e-003**		**68.9621**

3.29 10.4 Substation Work (Escondido) above grade - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1510	10.5024	5.8268	0.0203		0.4092	0.4092		0.3765	0.3765		1,969.4298	1,969.4298	0.6370		1,985.3536
Total	**1.1510**	**10.5024**	**5.8268**	**0.0203**		**0.4092**	**0.4092**		**0.3765**	**0.3765**		**1,969.4298**	**1,969.4298**	**0.6370**		**1,985.3536**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.4000e-004	0.0188	4.5000e-003	5.0000e-005	0.0992	6.0000e-005	0.0993	0.0101	6.0000e-005	0.0102		5.6109	5.6109	5.2000e-004		5.6239
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1413	0.0944	0.9086	2.7000e-003	27.2872	1.9600e-003	27.2891	2.7674	1.8100e-003	2.7692		268.9849	268.9849	8.1000e-003		269.1873
Total	**0.1419**	**0.1132**	**0.9131**	**2.7500e-003**	**27.3864**	**2.0200e-003**	**27.3884**	**2.7775**	**1.8700e-003**	**2.7793**		**274.5958**	**274.5958**	**8.6200e-003**		**274.8112**

3.29 10.4 Substation Work (Escondido) above grade - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1510	10.5024	5.8268	0.0203		0.4092	0.4092		0.3765	0.3765	0.0000	1,969.4298	1,969.4298	0.6370		1,985.3536
Total	**1.1510**	**10.5024**	**5.8268**	**0.0203**		**0.4092**	**0.4092**		**0.3765**	**0.3765**	**0.0000**	**1,969.4298**	**1,969.4298**	**0.6370**		**1,985.3536**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.4000e-004	0.0188	4.5000e-003	5.0000e-005	0.0992	6.0000e-005	0.0993	0.0101	6.0000e-005	0.0102		5.6109	5.6109	5.2000e-004		5.6239
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1413	0.0944	0.9086	2.7000e-003	27.2872	1.9600e-003	27.2891	2.7674	1.8100e-003	2.7692		268.9849	268.9849	8.1000e-003		269.1873
Total	**0.1419**	**0.1132**	**0.9131**	**2.7500e-003**	**27.3864**	**2.0200e-003**	**27.3884**	**2.7775**	**1.8700e-003**	**2.7793**		**274.5958**	**274.5958**	**8.6200e-003**		**274.8112**

3.30 07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0244	0.0000	0.0244	2.6400e-003	0.0000	2.6400e-003			0.0000			0.0000
Off-Road	2.6392	26.0468	15.1818	0.0494		1.0084	1.0084		0.9277	0.9277		4,786.9922	4,786.9922	1.5482		4,825.6975
Total	**2.6392**	**26.0468**	**15.1818**	**0.0494**	**0.0244**	**1.0084**	**1.0328**	**2.6400e-003**	**0.9277**	**0.9304**		**4,786.9922**	**4,786.9922**	**1.5482**		**4,825.6975**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.9000e-004	0.0171	4.0900e-003	5.0000e-005	0.0556	6.0000e-005	0.0557	5.7200e-003	5.0000e-005	5.7700e-003		5.1008	5.1008	4.7000e-004		5.1126
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0836**	**0.0726**	**0.5386**	**1.6400e-003**	**9.9439**	**1.2100e-003**	**9.9452**	**1.0173**	**1.1100e-003**	**1.0184**		**163.3272**	**163.3272**	**5.2300e-003**		**163.4581**

3.30 07.2 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 2 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0244	0.0000	0.0244	2.6400e-003	0.0000	2.6400e-003			0.0000			0.0000
Off-Road	2.6392	26.0468	15.1818	0.0494		1.0084	1.0084		0.9277	0.9277	0.0000	4,786.9922	4,786.9922	1.5482		4,825.6975
Total	**2.6392**	**26.0468**	**15.1818**	**0.0494**	**0.0244**	**1.0084**	**1.0328**	**2.6400e-003**	**0.9277**	**0.9304**	**0.0000**	**4,786.9922**	**4,786.9922**	**1.5482**		**4,825.6975**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.9000e-004	0.0171	4.0900e-003	5.0000e-005	0.0556	6.0000e-005	0.0557	5.7200e-003	5.0000e-005	5.7700e-003		5.1008	5.1008	4.7000e-004		5.1126
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0836**	**0.0726**	**0.5386**	**1.6400e-003**	**9.9439**	**1.2100e-003**	**9.9452**	**1.0173**	**1.1100e-003**	**1.0184**		**163.3272**	**163.3272**	**5.2300e-003**		**163.4581**

3.31 09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1160	20.0741	13.5649	0.0337		0.9143	0.9143		0.8411	0.8411		3,259.8302	3,259.8302	1.0543		3,286.1876
Total	**2.1160**	**20.0741**	**13.5649**	**0.0337**	**0.0000**	**0.9143**	**0.9143**	**0.0000**	**0.8411**	**0.8411**		**3,259.8302**	**3,259.8302**	**1.0543**		**3,286.1876**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4000e-004	8.2800e-003	1.9900e-003	2.0000e-005	0.0270	3.0000e-005	0.0270	2.7800e-003	3.0000e-005	2.8000e-003		2.4754	2.4754	2.3000e-004		2.4811
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0834**	**0.0638**	**0.5365**	**1.6100e-003**	**9.9153**	**1.1800e-003**	**9.9165**	**1.0143**	**1.0900e-003**	**1.0154**		**160.7018**	**160.7018**	**4.9900e-003**		**160.8266**

3.31 09.1 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 1 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1160	20.0741	13.5649	0.0337		0.9143	0.9143		0.8411	0.8411	0.0000	3,259.8302	3,259.8302	1.0543		3,286.1876
Total	**2.1160**	**20.0741**	**13.5649**	**0.0337**	**0.0000**	**0.9143**	**0.9143**	**0.0000**	**0.8411**	**0.8411**	**0.0000**	**3,259.8302**	**3,259.8302**	**1.0543**		**3,286.1876**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4000e-004	8.2800e-003	1.9900e-003	2.0000e-005	0.0270	3.0000e-005	0.0270	2.7800e-003	3.0000e-005	2.8000e-003		2.4754	2.4754	2.3000e-004		2.4811
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0834**	**0.0638**	**0.5365**	**1.6100e-003**	**9.9153**	**1.1800e-003**	**9.9165**	**1.0143**	**1.0900e-003**	**1.0154**		**160.7018**	**160.7018**	**4.9900e-003**		**160.8266**

3.32 07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3900e-003	0.0000	7.3900e-003	8.0000e-004	0.0000	8.0000e-004			0.0000			0.0000
Off-Road	2.6392	26.0468	15.1818	0.0494		1.0084	1.0084		0.9277	0.9277		4,786.9922	4,786.9922	1.5482		4,825.6975
Total	**2.6392**	**26.0468**	**15.1818**	**0.0494**	**7.3900e-003**	**1.0084**	**1.0158**	**8.0000e-004**	**0.9277**	**0.9285**		**4,786.9922**	**4,786.9922**	**1.5482**		**4,825.6975**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.5000e-004	8.5300e-003	2.0500e-003	2.0000e-005	0.0278	3.0000e-005	0.0278	2.8600e-003	3.0000e-005	2.8900e-003		2.5504	2.5504	2.4000e-004		2.5563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0834**	**0.0641**	**0.5365**	**1.6100e-003**	**9.9161**	**1.1800e-003**	**9.9173**	**1.0144**	**1.0900e-003**	**1.0155**		**160.7768**	**160.7768**	**5.0000e-003**		**160.9018**

3.32 07.3 Stringing Activities/Transfer Conductor/Sagging Activities - Seg 3 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3900e-003	0.0000	7.3900e-003	8.0000e-004	0.0000	8.0000e-004			0.0000			0.0000
Off-Road	2.6392	26.0468	15.1818	0.0494		1.0084	1.0084		0.9277	0.9277	0.0000	4,786.9922	4,786.9922	1.5482		4,825.6975
Total	**2.6392**	**26.0468**	**15.1818**	**0.0494**	**7.3900e-003**	**1.0084**	**1.0158**	**8.0000e-004**	**0.9277**	**0.9285**	**0.0000**	**4,786.9922**	**4,786.9922**	**1.5482**		**4,825.6975**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.5000e-004	8.5300e-003	2.0500e-003	2.0000e-005	0.0278	3.0000e-005	0.0278	2.8600e-003	3.0000e-005	2.8900e-003		2.5504	2.5504	2.4000e-004		2.5563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0834**	**0.0641**	**0.5365**	**1.6100e-003**	**9.9161**	**1.1800e-003**	**9.9173**	**1.0144**	**1.0900e-003**	**1.0155**		**160.7768**	**160.7768**	**5.0000e-003**		**160.9018**

3.33 09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1160	20.0741	13.5649	0.0337		0.9143	0.9143		0.8411	0.8411		3,259.8302	3,259.8302	1.0543		3,286.1876
Total	**2.1160**	**20.0741**	**13.5649**	**0.0337**	**0.0000**	**0.9143**	**0.9143**	**0.0000**	**0.8411**	**0.8411**		**3,259.8302**	**3,259.8302**	**1.0543**		**3,286.1876**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8000e-004	6.2600e-003	1.5000e-003	2.0000e-005	0.0204	2.0000e-005	0.0204	2.1000e-003	2.0000e-005	2.1200e-003		1.8703	1.8703	1.7000e-004		1.8746
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0833**	**0.0618**	**0.5360**	**1.6100e-003**	**9.9087**	**1.1700e-003**	**9.9099**	**1.0137**	**1.0800e-003**	**1.0147**		**160.0967**	**160.0967**	**4.9300e-003**		**160.2201**

3.33 09.3 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 3 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1160	20.0741	13.5649	0.0337		0.9143	0.9143		0.8411	0.8411	0.0000	3,259.8302	3,259.8302	1.0543		3,286.1876
Total	**2.1160**	**20.0741**	**13.5649**	**0.0337**	**0.0000**	**0.9143**	**0.9143**	**0.0000**	**0.8411**	**0.8411**	**0.0000**	**3,259.8302**	**3,259.8302**	**1.0543**		**3,286.1876**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8000e-004	6.2600e-003	1.5000e-003	2.0000e-005	0.0204	2.0000e-005	0.0204	2.1000e-003	2.0000e-005	2.1200e-003		1.8703	1.8703	1.7000e-004		1.8746
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0833**	**0.0618**	**0.5360**	**1.6100e-003**	**9.9087**	**1.1700e-003**	**9.9099**	**1.0137**	**1.0800e-003**	**1.0147**		**160.0967**	**160.0967**	**4.9300e-003**		**160.2201**

3.34 09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1160	20.0741	13.5649	0.0337		0.9143	0.9143		0.8411	0.8411		3,259.8302	3,259.8302	1.0543		3,286.1876
Total	**2.1160**	**20.0741**	**13.5649**	**0.0337**	**0.0000**	**0.9143**	**0.9143**	**0.0000**	**0.8411**	**0.8411**		**3,259.8302**	**3,259.8302**	**1.0543**		**3,286.1876**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.5000e-004	8.5300e-003	2.0500e-003	2.0000e-005	0.0278	3.0000e-005	0.0278	2.8600e-003	3.0000e-005	2.8900e-003		2.5504	2.5504	2.4000e-004		2.5563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0834**	**0.0641**	**0.5365**	**1.6100e-003**	**9.9161**	**1.1800e-003**	**9.9173**	**1.0144**	**1.0900e-003**	**1.0155**		**160.7768**	**160.7768**	**5.0000e-003**		**160.9018**

3.34 09.2 Demobilization/ROW Restoration and Cleanup/Road Refreshing - Seg 2 - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1160	20.0741	13.5649	0.0337		0.9143	0.9143		0.8411	0.8411	0.0000	3,259.8302	3,259.8302	1.0543		3,286.1876
Total	**2.1160**	**20.0741**	**13.5649**	**0.0337**	**0.0000**	**0.9143**	**0.9143**	**0.0000**	**0.8411**	**0.8411**	**0.0000**	**3,259.8302**	**3,259.8302**	**1.0543**		**3,286.1876**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.5000e-004	8.5300e-003	2.0500e-003	2.0000e-005	0.0278	3.0000e-005	0.0278	2.8600e-003	3.0000e-005	2.8900e-003		2.5504	2.5504	2.4000e-004		2.5563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0555	0.5345	1.5900e-003	9.8883	1.1500e-003	9.8895	1.0116	1.0600e-003	1.0126		158.2264	158.2264	4.7600e-003		158.3455
Total	**0.0834**	**0.0641**	**0.5365**	**1.6100e-003**	**9.9161**	**1.1800e-003**	**9.9173**	**1.0144**	**1.0900e-003**	**1.0155**		**160.7768**	**160.7768**	**5.0000e-003**		**160.9018**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**1.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**1.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Helicopter Criteria Pollutant and GHG calculations

Assumptions and Variables

Constant		*value*	*units*	*source*		
Total running time		24	poles			
		10.0	minutes per pole			
		240	minutes of work per day			
		2	days of work			
		480	total minutes of work			
Fraction of time in idle		0.1				
Fraction of time in Climbout/Approach		0.9				
Jet Fuel Density (at 15 degrees C) -- equiv. to 820 km/m3		6.84	lbs/gallon	air BP Handbook of Products, page 11 (Jet A fuel)		
GHGs for Jet Fuel:						
	CO2	9.75	kg per gallon	The Climate Registry 2017 Default Emission Factors (Table 13.1 - US Default CO2 Emission Factors for Transport Fuels)	convert to kg/gallon for calcs	
	CH4	0	g per gallon	The Climate Registry 2017 Default Emission Factors (Table 13.7 - US Default CH4 and N2O Emission Factors for Non-Highway Vehicles)	0 kg per gallon	
	N2O	0.31	g per gallon	The Climate Registry 2017 Default Emission Factors (Table 13.7 - US Default CH4 and N2O Emission Factors for Non-Highway Vehicles)	0.00031 kg per gallon	
Global Warming Potential of GHGs						
		1	CO2	IPCC, Fourth Assessment Report, 2007		
		25	CH4	IPCC, Fourth Assessment Report, 2007		
		298	N2O	IPCC, Fourth Assessment Report, 2007		
Jet Fuel Usage - Idle		142	lbs/hr	EPA, Air Pollutant Emission Factors for Military and Civili Aircraft,1978		
Jet Fuel Usage - Climbout/Approach		679	lbs/hr	EPA, Air Pollutant Emission Factors for Military and Civili Aircraft,1978		
PM2.5 fraction of PM10		0.991	for Jet Fuel	County of San Diego		
Conversions		0.001	kg to metric ton			
		0.001	g to kg			

Emission Calculations

Criteria Pollutants

					Emission Factors (lbs/hr)					Emissions (lbs/day)					
Mode	**Fraction of time in mode**	**total operating minutes per day**	**Daily Minutes in Mode**	**Daily Hours in Mode**	**ROG**	**NOx**	**CO**	**SOx**	**PM**	**ROG**	**NOx**	**CO**	**SOx**	**PM10**	**PM2.5**
idle	0.1	240	24	0.4	9	0.2	4.2	0.14	0.1	3.6	0.08	1.68	0.056	0.04	0.03964
app/climb	0.9		216	3.6	0.2	5	2	0.68	0.8	0.72	18	7.2	2.448	2.88	2.85408
total	1		240	4						4.32	18.08	8.88	2.504	2.92	2.89372

Greenhouse Gases

							Emission Factor (kg per gallon)			Emissions (kg per year)			Emissions (metric tons per year)			
Mode	**Fraction of time in mode**	**Jet Fuel Usage (lbs/hr)**	**Jet Fuel Usage (adjusted to gal/hr)**	**Total Minutes of Use**	**Total Hours of Use in Mode**	**Total Fuel Used (gallons)**	**CO2**	**CH4**	**N2O**	**CO2**	**CH4**	**N2O**	**CO2**	**CH4**	**N2O**	**CO2e**
idle	0.1	142	20.76	48	0.8	16.60818713	9.75	0	0.00031	161.9298	0	0.005149	0.16193	0	5.15E-06	0.163464
app/climb	0.9	679	99.27	432	7.2	714.7368421	9.75	0	0.00031	6968.684	0	0.221568	6.968684	0	0.000222	7.034712
total	1.00		120.03	480.00	8	731.35				7130.614	0	0.226717	7.130614	0	0.000227	**7.198 Total GHGs**

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C.2 Fuel Use Estimates

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San Marcos-Escondido TL 6975 69kV Project Fuel Use

CO_2 emissions from AQ Calculations:

Conversion	1 MT =	1000	kg

Diesel Sources	CO_2 Emissions	
Off road equipment	1725.0758	MT
Haul trucks	17.24	MT
TOTAL Diesel Sources =	**1742.32**	**MT**
Convert to kilograms	1.74E+06	kg

Diesel fuel combustion[a] = 10.21 kg CO2/gallon

Diesel Consumption = 170647.99 gallons (over approx. 10 month construction period)

Gasoline Sources	CO_2 Emissions	
Construction workers	59.7926	MT
Convert to kilograms	5.98E+04	kg

Gasoline fuel combustion[a] = 8.78 kg CO2/gallon

Gasoline consumption = 6810.09 gallons (over approx. 10 month construction period)

Jet Fuel Sources	CO_2 Emissions	
Helicopter	7.130614	MT
Convert to kilograms	7.13E+03	kg

Jet fuel combustion[a] = 9.75 kg CO2/gallon

Jet fuel consumption = 731.35 gallons (over approx. 10 month construction period)

Notes:

[a] Emissions factors per The Climate Registry 2017 Default Emission Factors (Table 13.1 - US Default CO_2 Emission Factors for Transport Fuels)

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Appendix D
Biological Resources

D.1 Vegetation Community Maps

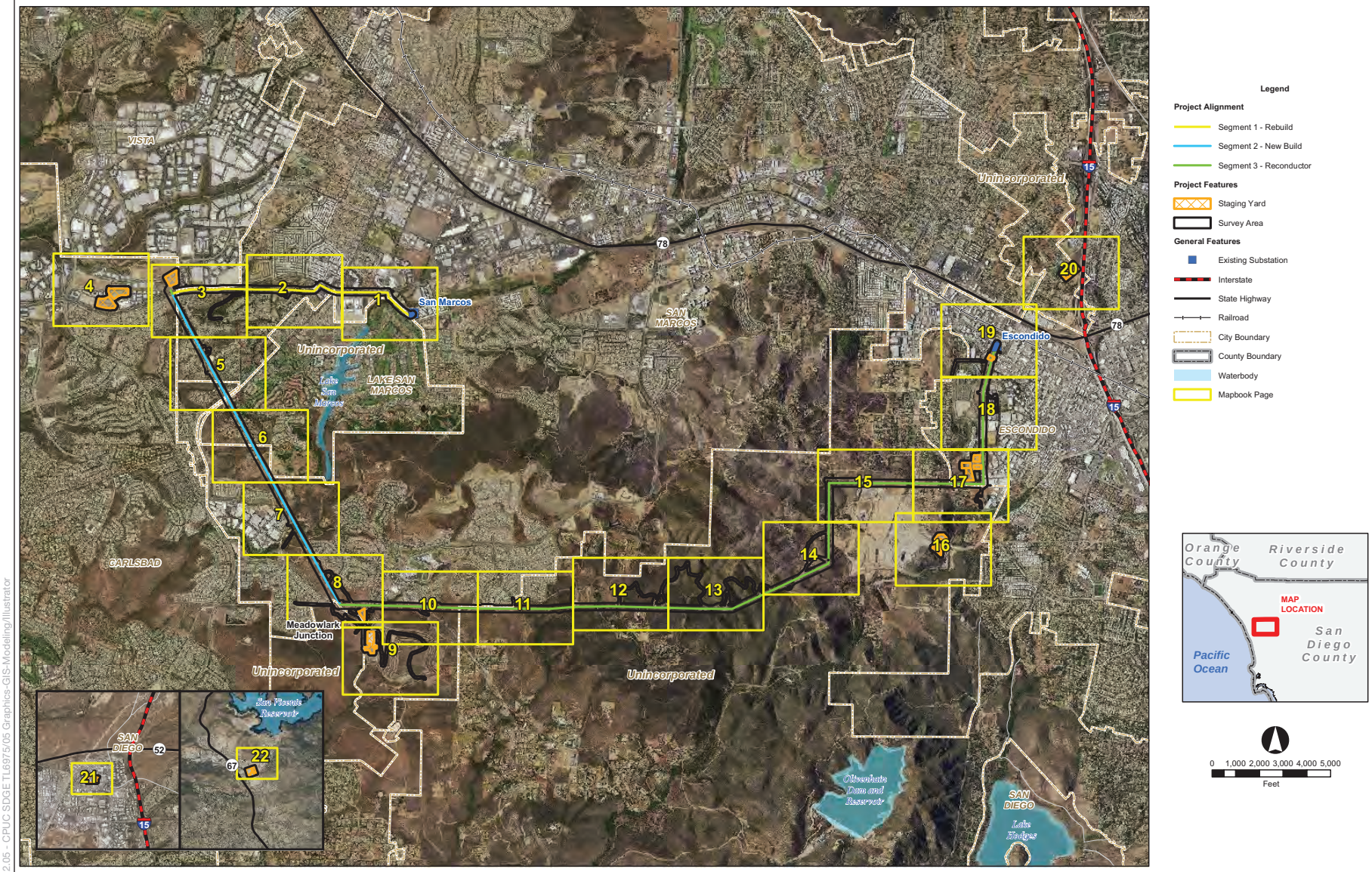
D.2 Biological Technical Report

D.3 1995 Subregional NCCP

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D.1 Vegetation Community Maps

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D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator

SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1
Vegetation Communities

ESA



SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.1
Vegetation Communities

ESA

D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator



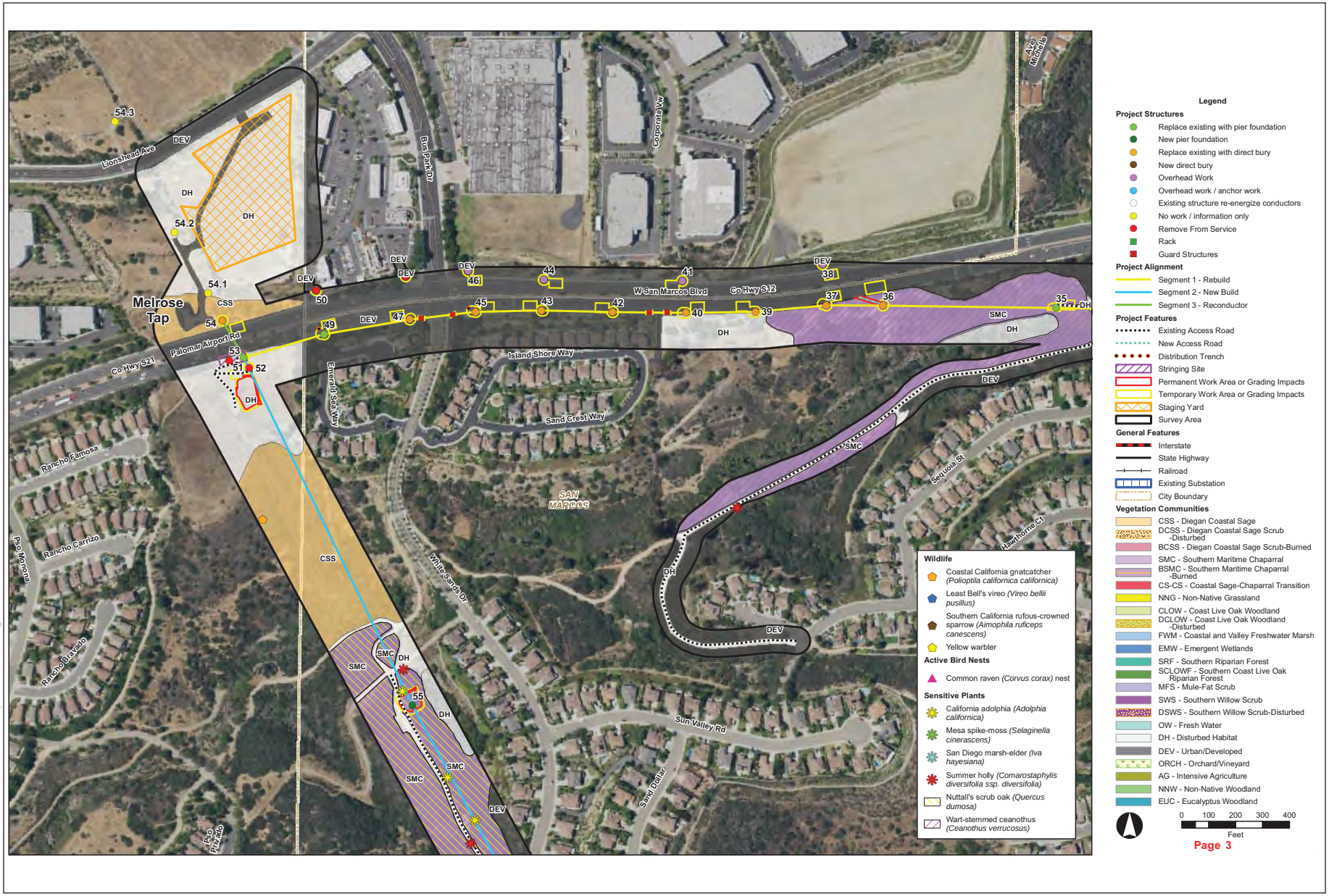
SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.2
Vegetation Communities

ESA

D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator



D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator

SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.3
Vegetation Communities

ESA



D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator

SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.4
Vegetation Communities

ESA



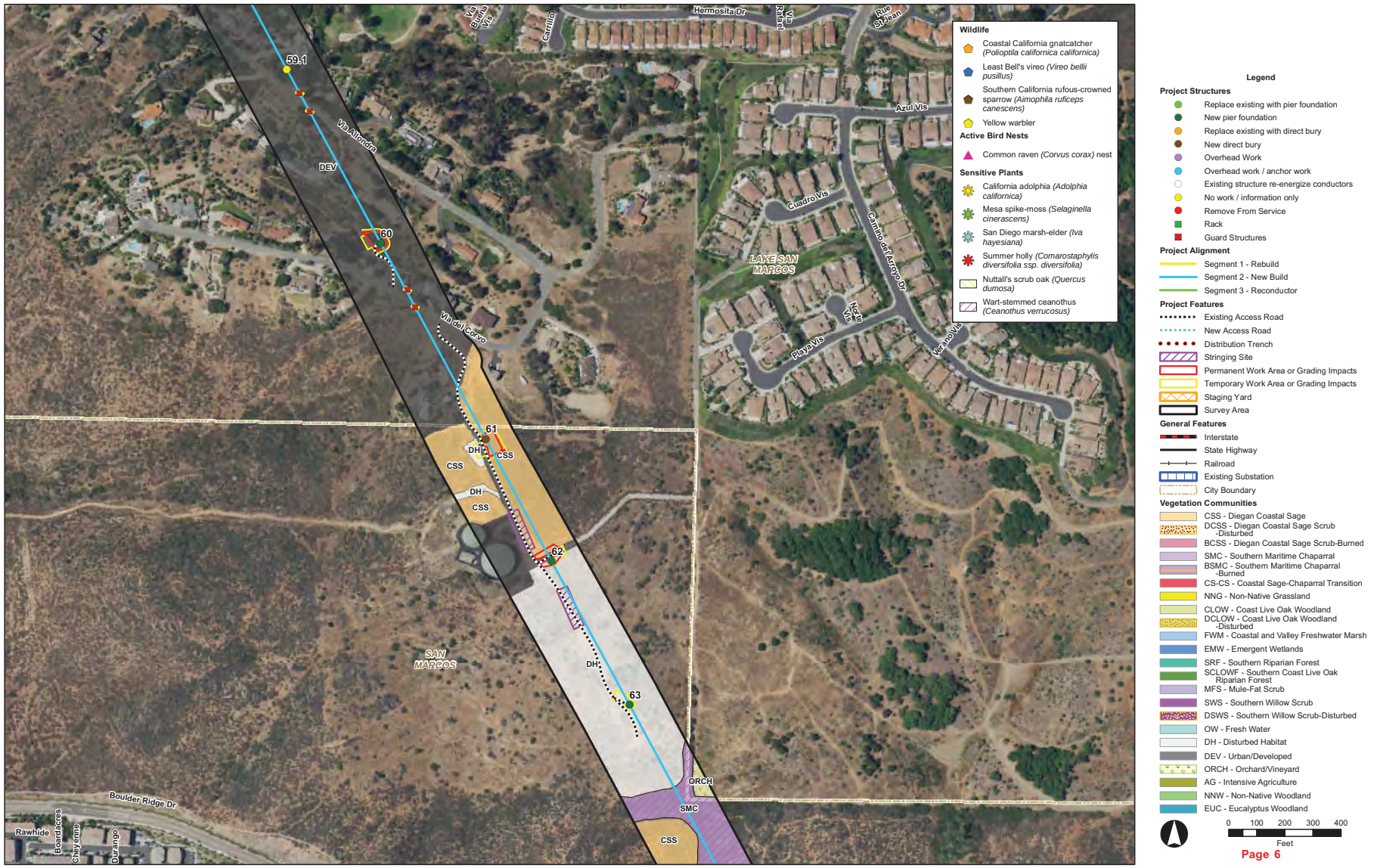
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TL 6975 San Marcos to Escondido Project

Figure 3.4-1.5
Vegetation Communities

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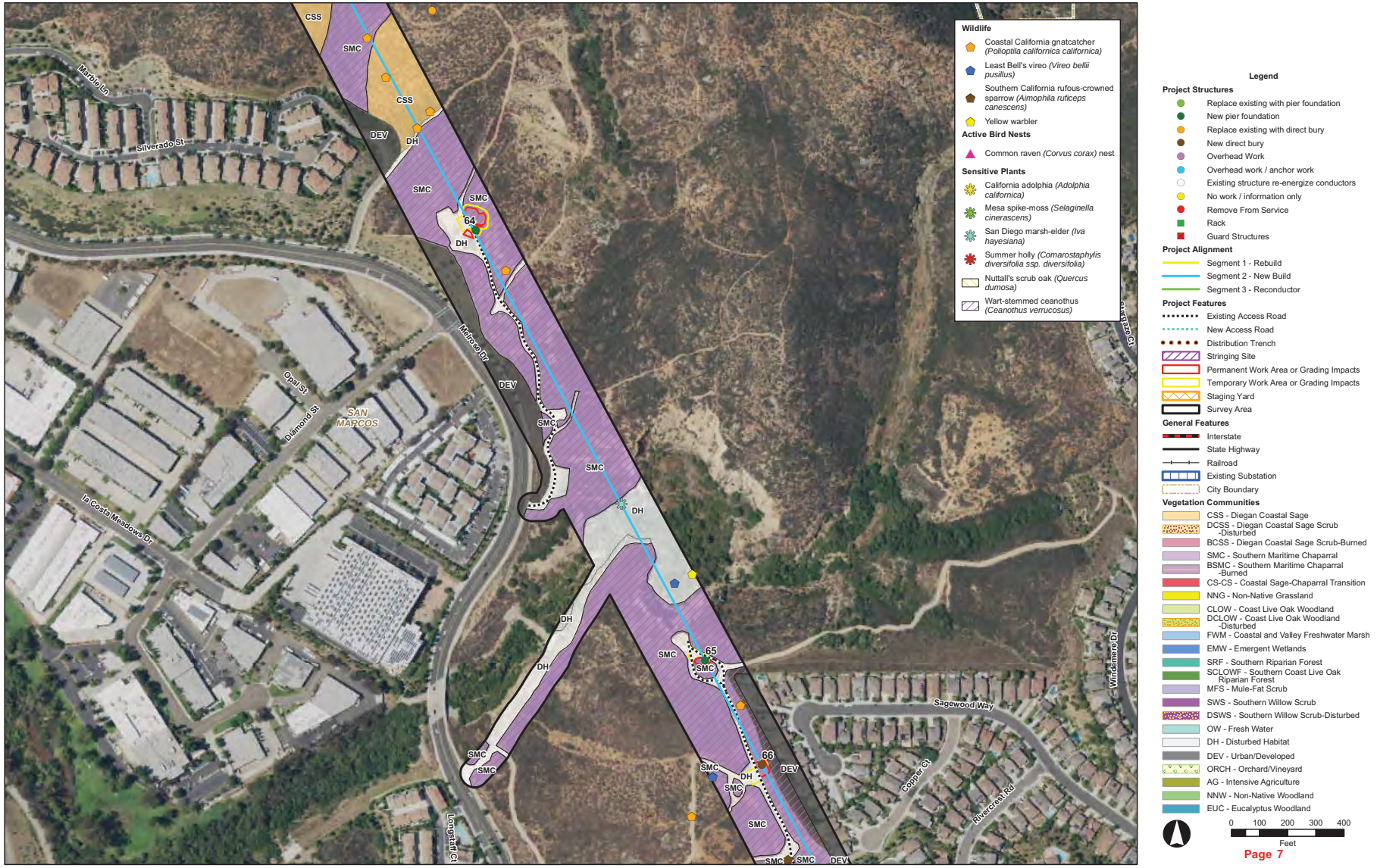
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TL 6975 San Marcos to Escondido Project

Figure 3.4-1.6
Vegetation Communities

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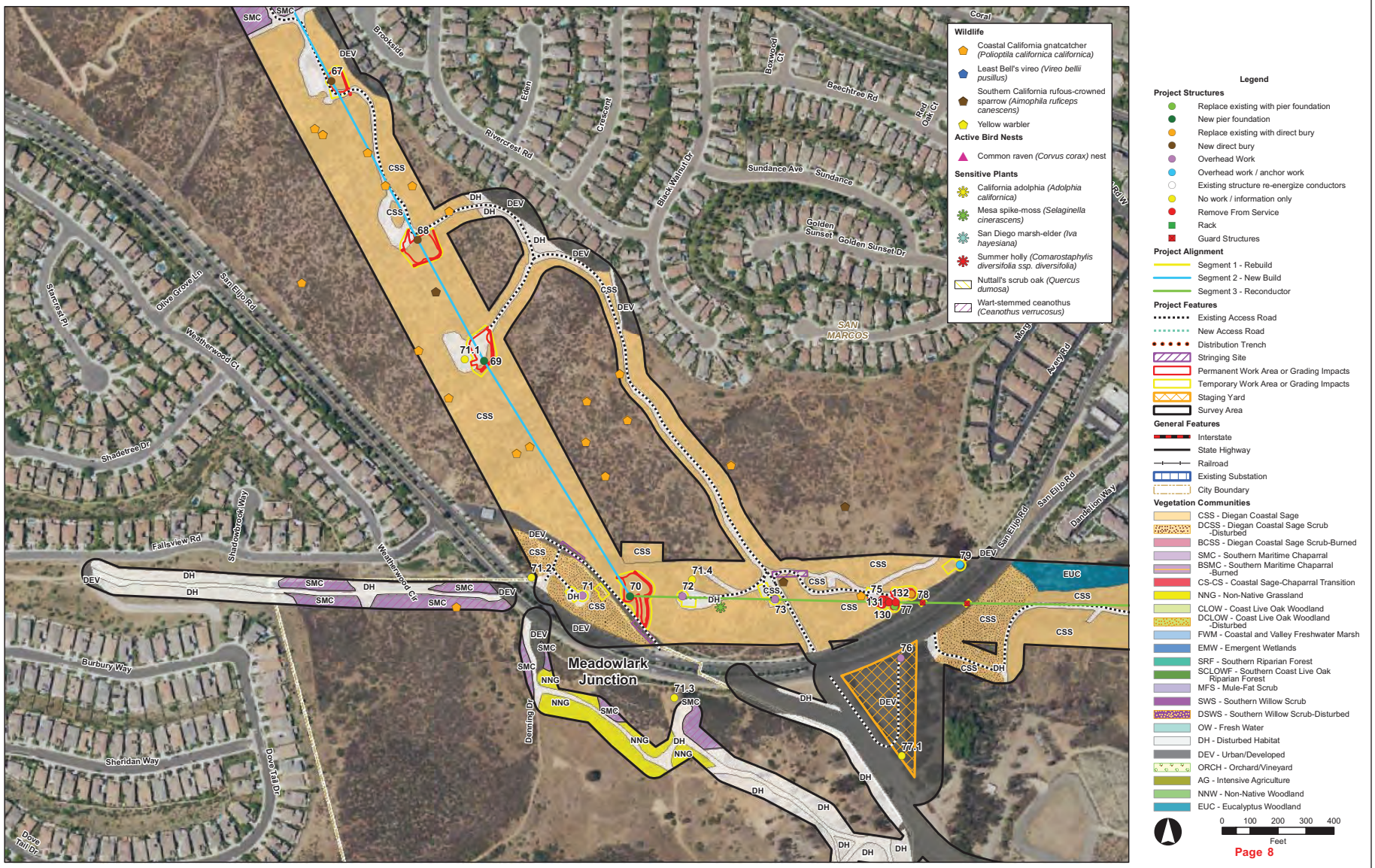
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SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.7
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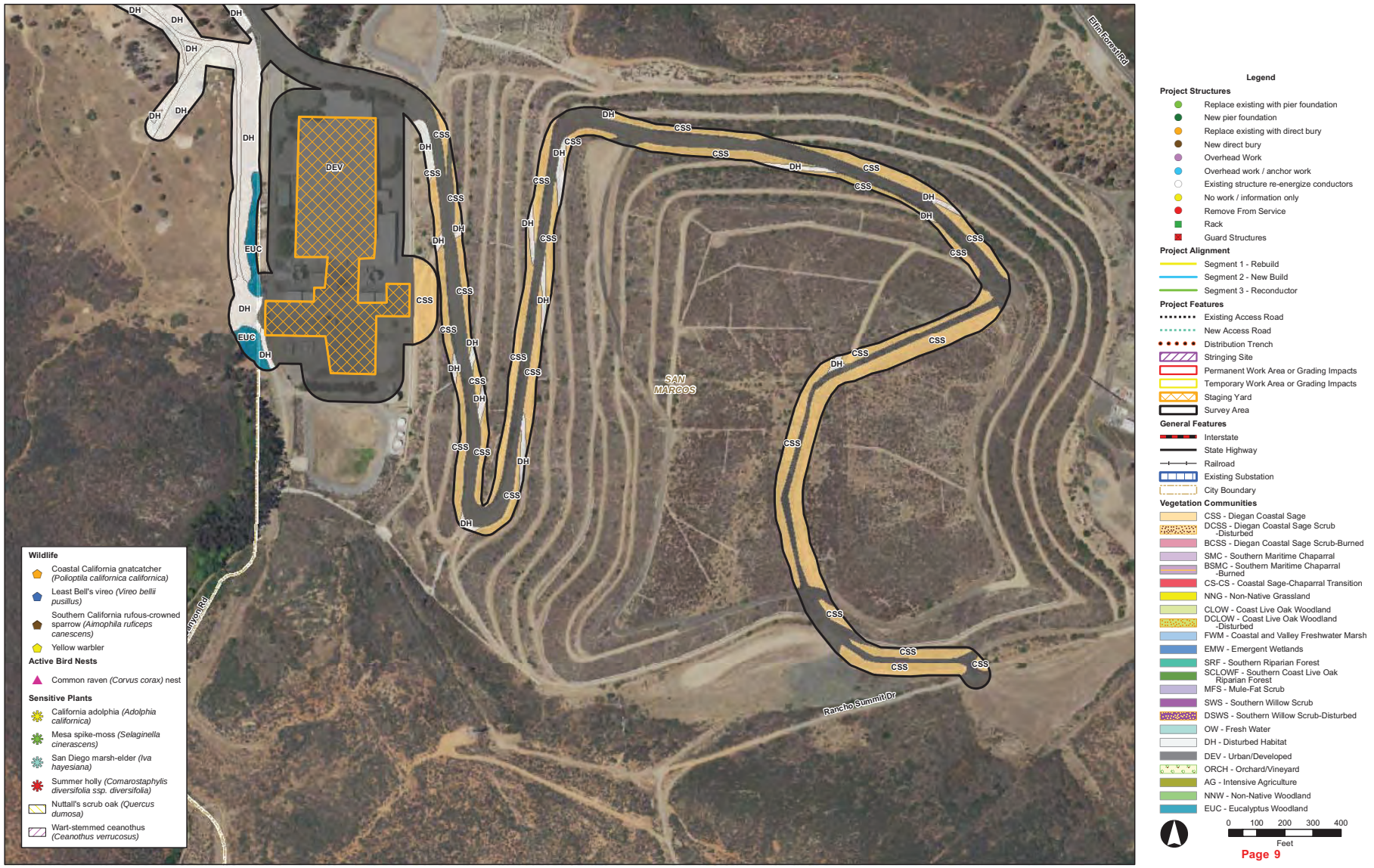
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TL 6975 San Marcos to Escondido Project

Figure 3.4-1.8
Vegetation Communities

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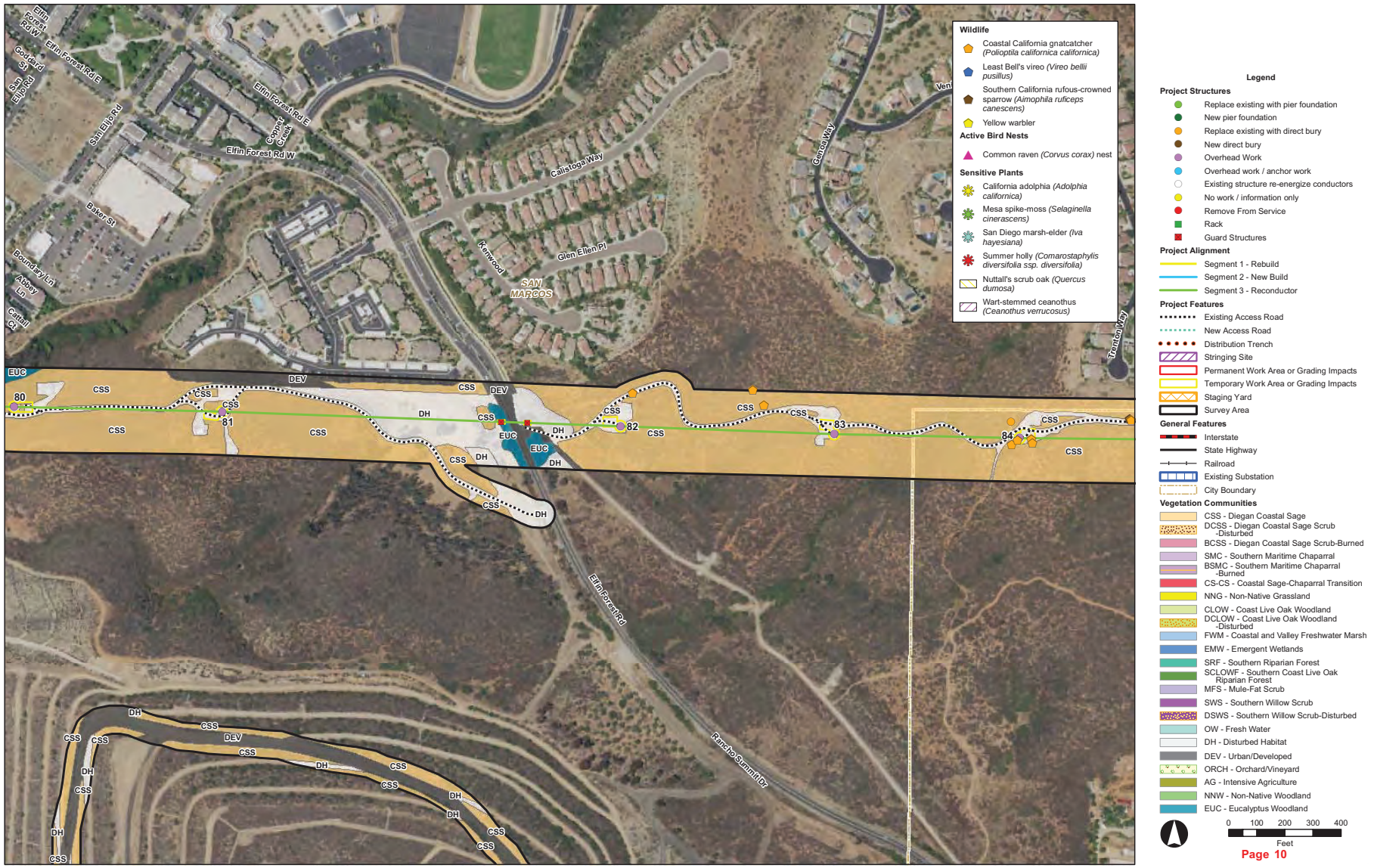
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SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.9
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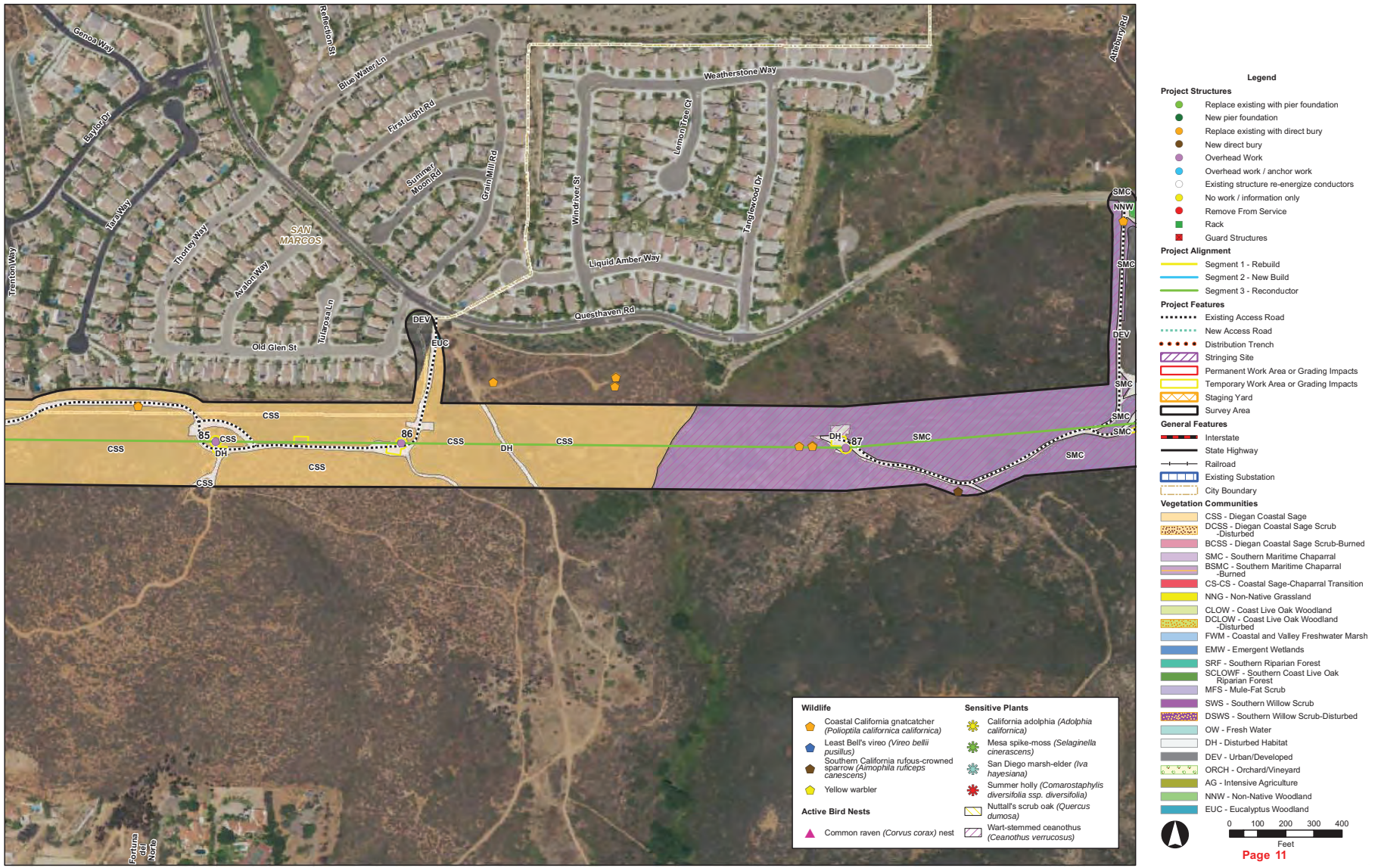
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TL 6975 San Marcos to Escondido Project

Figure 3.4-1.10
Vegetation Communities

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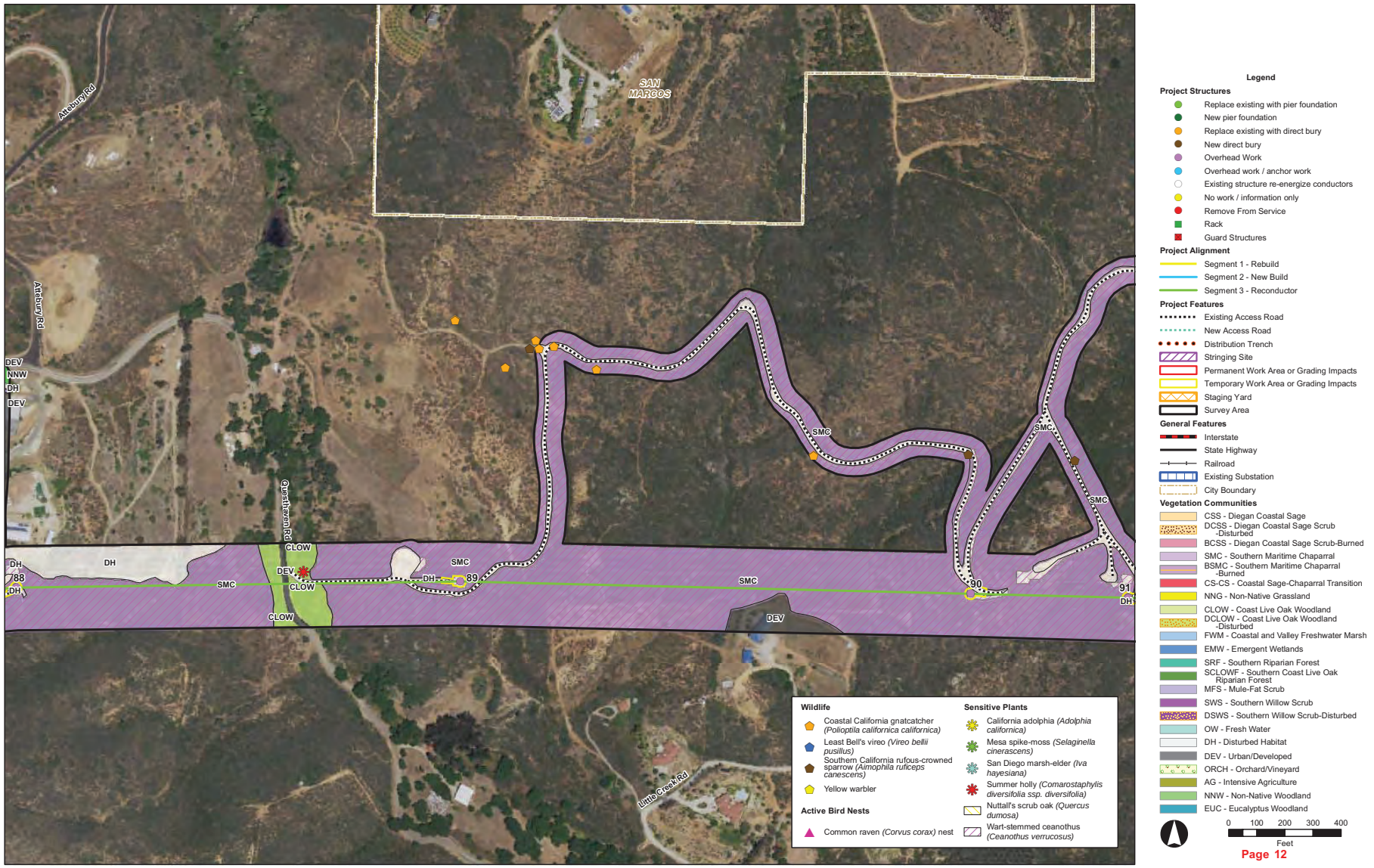
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TL 6975 San Marcos to Escondido Project

Figure 3.4-1.11
Vegetation Communities

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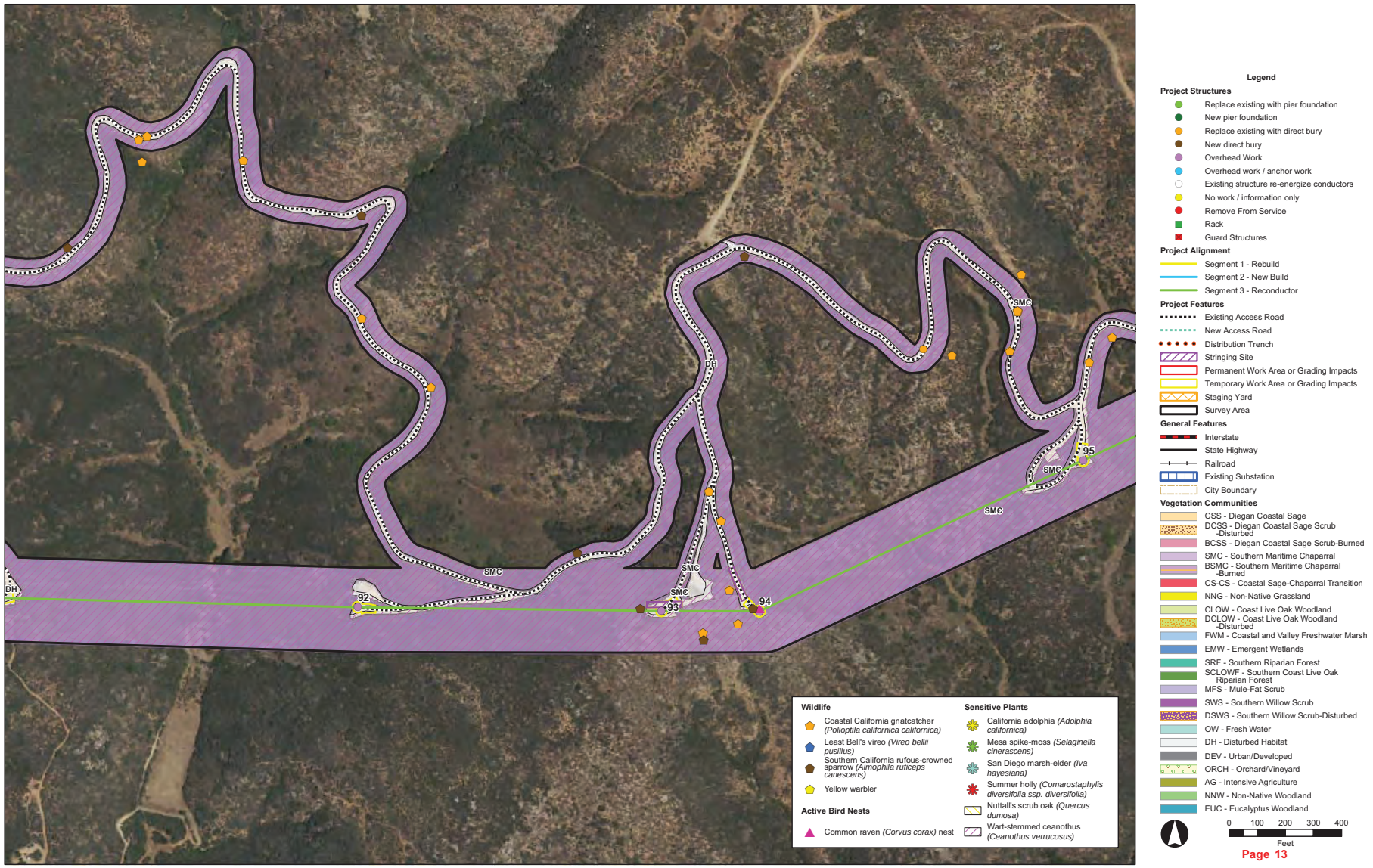
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TL 6975 San Marcos to Escondido Project

Figure 3.4-1.12
Vegetation Communities

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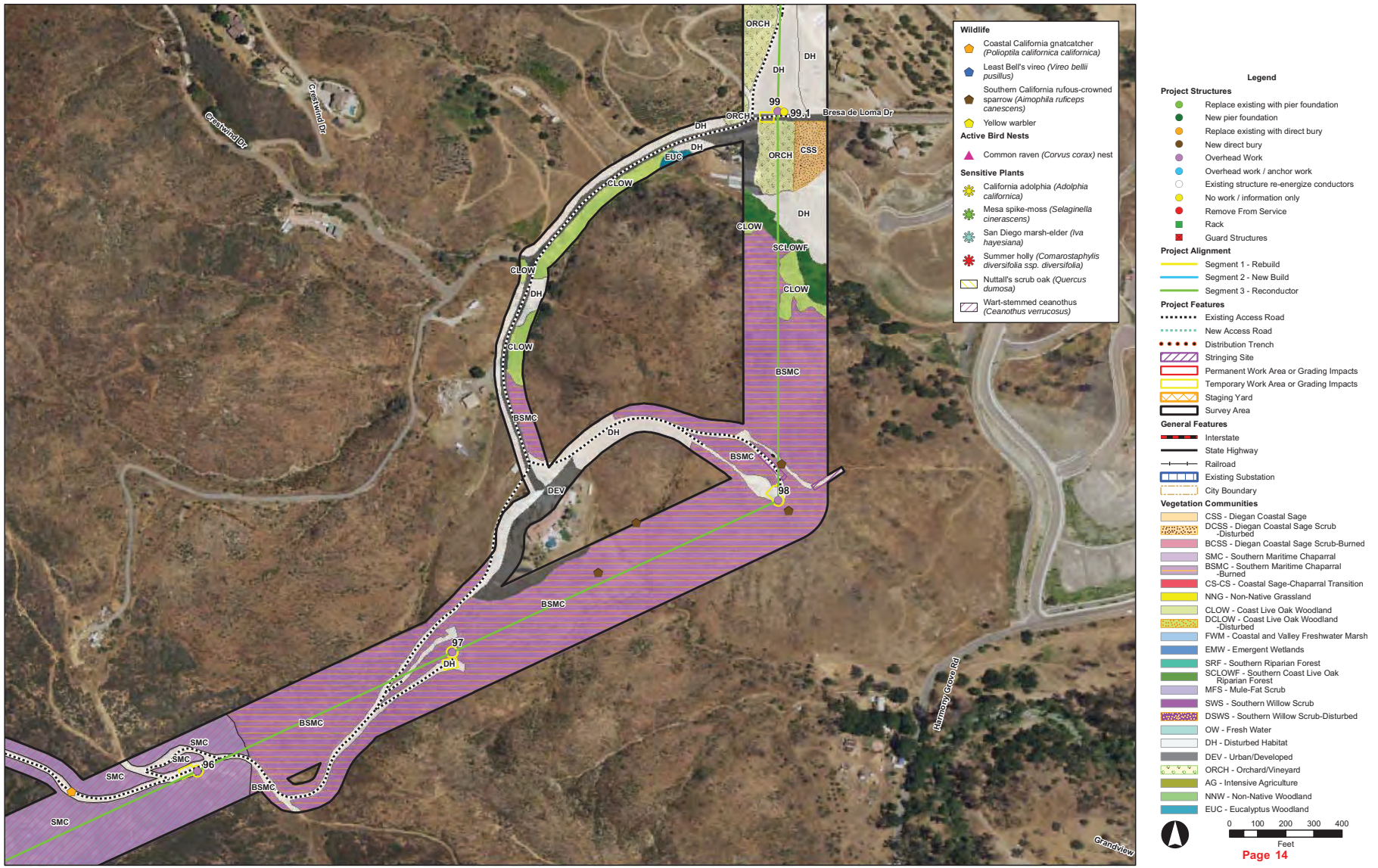
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SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.13
Vegetation Communities

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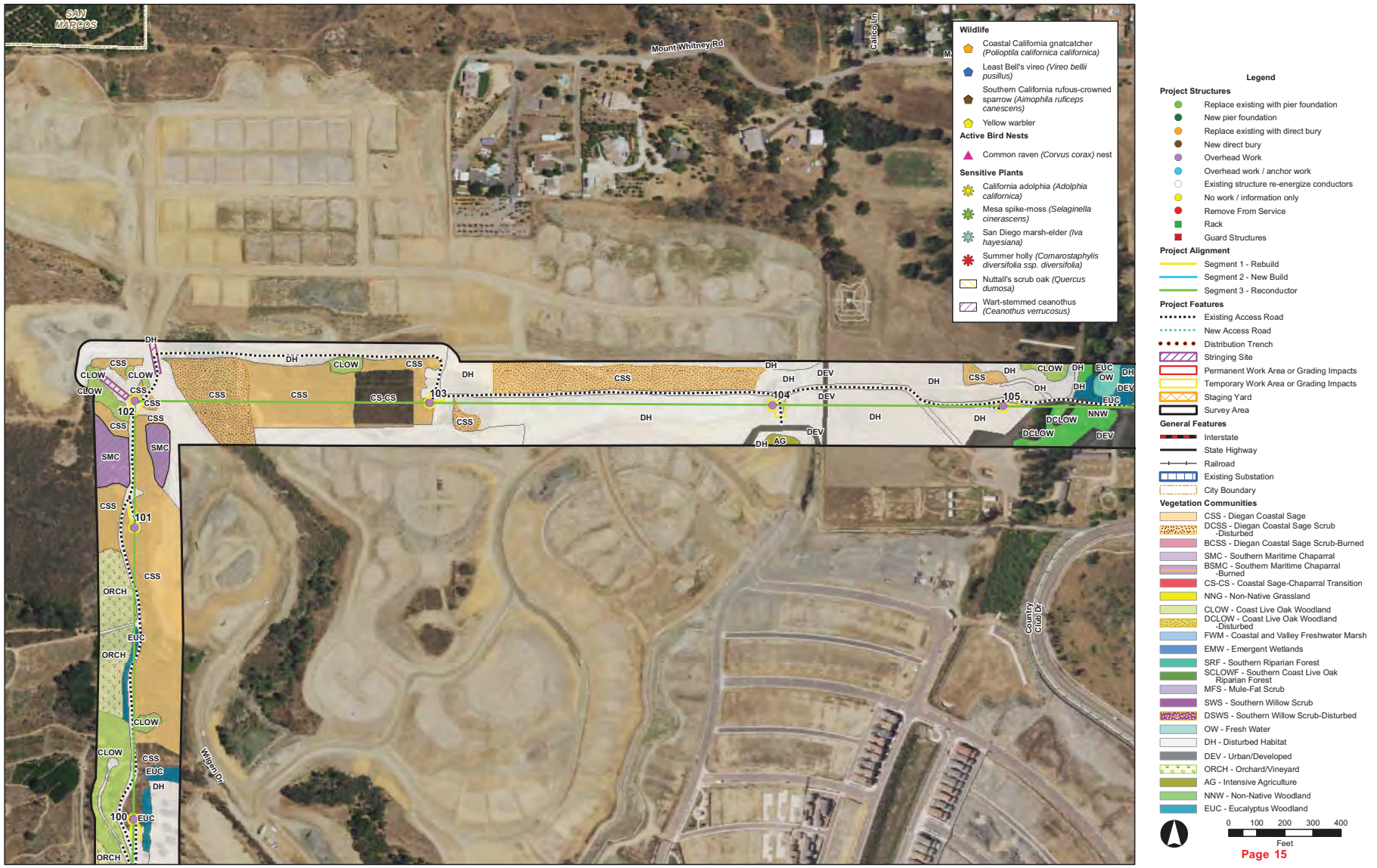
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SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.14
Vegetation Communities

ESA



D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator

SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.15
Vegetation Communities



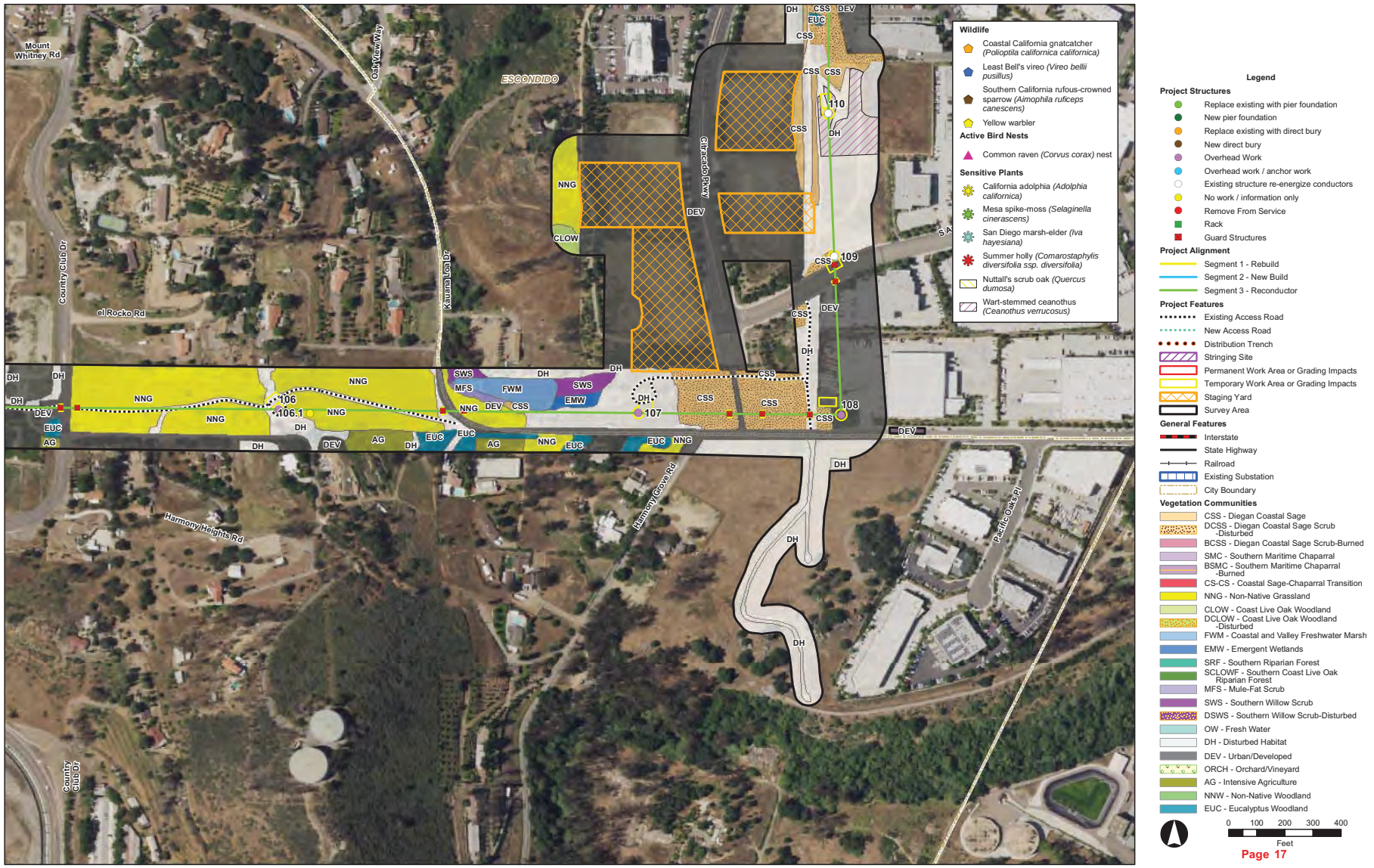
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SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.16
Vegetation Communities

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D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator

SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.17
Vegetation Communities

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D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator

SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.18
Vegetation Communities

ESA



SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.19
Vegetation Communities

D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator



SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.20
Vegetation Communities

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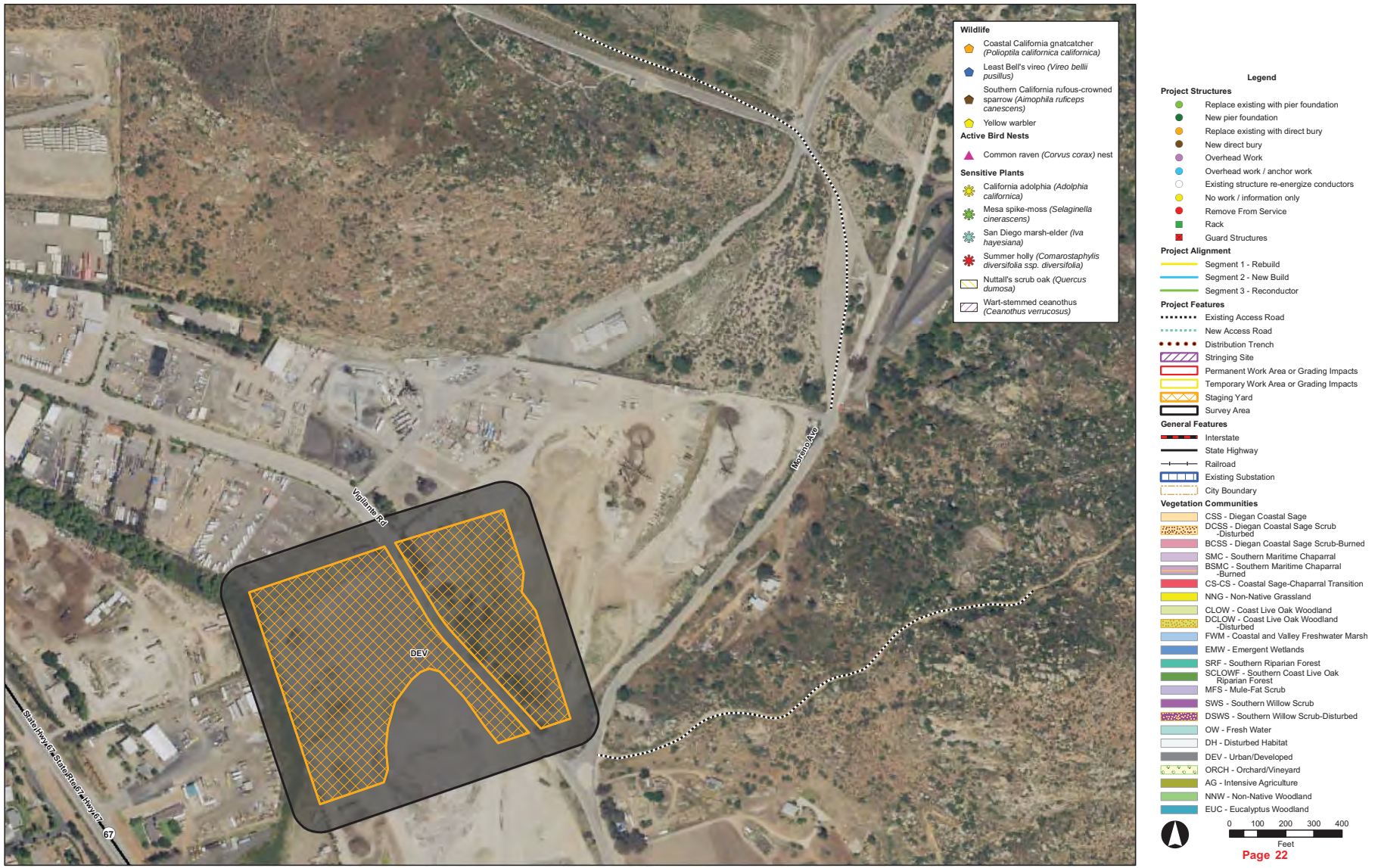
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SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.21
Vegetation Communities

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D120812.05 - CPUC SDGE TL6975/05 Graphics-GIS-Modeling/Illustrator

SOURCE: SDG&E, 2018

TL 6975 San Marcos to Escondido Project

Figure 3.4-1.22
Vegetation Communities

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D.2 Biological Technical Report

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TL 6975 San Marcos to Escondido Project, San Diego County, California

BIOLOGICAL TECHNICAL REPORT

Prepared for:

San Diego Gas & Electric
8315 Century Park Court
San Diego, CA 92123

Prepared by:

ICF
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September 2017



SDG&E. 2017. Biological Technical Report: TL 6975 San Marcos to Escondido New 69 kV Project, San Diego County, California. September.

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Acronyms

ACSR/AW	aluminum-clad conductor steel-reinforced
AMSL	above mean sea level
APLIC	Avian Power Line Interaction Committee
BGEPA	Bald and Golden Eagle Protection Act
BMPs	best management practices
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFGC	California Fish and Game Code
CFR	Code of Federal Regulations
CNDDB	California Natural Diversity Data Base
CNPS	California Native Plant Society's
COS	Conservation and Open Space
CPUC	California Public Utilities Commission
CRPR	California Rare Plant Rank
CWA	Clean Water Act
FESA	Federal Endangered Species Act
FR	*Federal Register*
FP	fully protected
GIS	geographic information system
GPS	global positioning system
HCP	habitat conservation plan
I-15	Interstate 15
kV	kilovolt
MHCP	Multiple Habitat Conservation Program
MSCP	Multiple Species Conservation Program
NCCP	Natural Communities Conservation Plan
NERC	North American Electric Reliability Corporation
NOAA	National Oceanic and Atmospheric Administration's
North County Plan	North County Multiple Species Conservation Plan
NRCS	Natural Resources Conservation Service
OHWM	ordinary high water mark
PAMAs	pre-approved mitigation areas
Proposed Project	SDG&E Escondido Substation and San Marcos Substation

PSA	Project Study Area
ROW	right-of-way
RWQCB	Regional Water Quality Control Board
SDG&E	San Diego Gas and Electric Company
SSC	Species of Special Concern
TL	Tie-Line
U.S.	United States
USC	United States Code
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

1. INTRODUCTION

1.1 PROJECT DESCRIPTION

San Diego Gas and Electric Company (SDG&E) proposes to construct, reconductor, and operate a new, approximately 12-mile 69 kilovolt (kV) overhead electric power line between the existing SDG&E Escondido Substation and San Marcos Substation (Proposed Project) to support existing and future area load and to prevent potentially long outages or disruption of service to existing and new customers in the communities and the surrounding area. The Proposed Project will be a combination of new overhead single circuit electric power line structures, rebuild of existing structures from single circuit to double circuit, and reconductor and re-energizing of existing conductors. The rebuilt and reconductored portions of the power line would be entirely within existing ROWs, with a small portion of the Segment 1 Rebuild requiring approximately 1.2 acres of new ROW where the existing ROW would be widened. In the Segment 1 Rebuild section, the existing distribution underbuilt line currently co-located with the Proposed Project would be reconductored and some trenching would be involved to intercept existing underground conduit and reroute to the new pole. At Meadowlark Junction the existing distribution line would be reconfigured and rerouted to the new pole locations along with an extended access road. In the portion of the Proposed Project where the existing powerline would be reconductored and re-energized all modifications would occur on the existing structures. No new substations are proposed.

The Proposed Project is intended to meet the following objectives: 1) Eliminate the existing congestion in the Escondido/San Marcos area; 2) Eliminate North American Electric Reliability Corporation (NERC) Category P0 (Cat A) and Category P1 (Cat B) violation on Tie-Line (TL) 680C (San Marcos–Melrose Tap); and 3) Improve reliability by providing an additional feed to San Marcos Substation.

1.2 PROJECT AREA

The Proposed Project components are located in the northern portion of San Diego County in the cities of Carlsbad, Escondido, and San Marcos, and in unincorporated San Diego County, California. The City of Carlsbad is 1.85 miles from San Marcos Substation and the City of Vista is 5.28 miles from Escondido Substation; the Proposed Project is approximately 25 miles north of downtown San Diego. The Proposed Project is located west of Interstate 15 (I-15), south of California Highway 78, and north of Elfin Forest Recreational Area and can be found on the United States Geological Survey (USGS) San Marcos, Rancho Santa Fe, and Escondido 7.5-minute quadrangles (Appendix A, Figure 1: Project Location). The California State University at San Marcos is situated between the existing substations, and a portion of the Proposed Project traverses along San Marcos Boulevard/County Highway S12 and crosses Rancho Santa Fe Road/County Highway S10, as well as other local existing roadways. The areas in and around the Proposed Project include land uses such as residential neighborhoods, industrial facilities, open space and preserves, and commercial and vacant lands. The existing San Marcos Substation is located on the south side of Highway 78, just south of County Highway S12/San

Marcos Boulevard, within the City of San Marcos. The existing Escondido Substation is also located on the south side of Highway 78, just north of Auto Park Way, within the City of Escondido.

The Proposed Project Study Area (PSA) is defined as a 150-foot-wide buffer (300-foot survey corridor) around the TL alignment, stringing sites, and road widening work sites, a 100-foot buffer around staging yards, and a 20-foot buffer around proposed access roads (Appendix A, Figure 2: Project Vicinity). The buffer was surveyed to address the potential for indirect impacts to result from Proposed Project construction activities and to provide SDG&E with constraints information to use when finalizing temporary and permanent impact areas, as summarized in Section 4.1, Impact Summary.

1.3 PROJECT COMPONENTS

The Proposed Project includes the following components broken out by segments:

- Segment 1 Rebuild: Rebuilding approximately 2.0 miles of an existing 69 kV circuit power line near San Marcos Substation to create a double circuit 69 kV line. This would consist of rebuilding an existing 69 kV circuit (TL 680C) from a single circuit structure line into a double circuit structure line supporting both the existing TL 680C and proposed TL 6975. All wood structures would be replaced with steel poles; all porcelain insulators would be replaced with polymer; and TL 680C would be reconductored. The line would be rebuilt from San Marcos Substation, along San Marcos Boulevard and Palomar Airport Road until reaching the existing 150-foot-wide SDG&E corridor approximately 800 feet west of White Sands Drive, at which TL 680C would continue on its existing alignment north within the SDG&E corridor, while TL 6975 would split off to the south on its own new 69 kV single circuit structures toward Meadowlark Junction. The existing distribution underbuilt would be reconductored. Based on new pole positions, some trenching would be involved to intercept existing underground conduit and reroute to the new pole. A new power line would be added at San Marcos Substation and reconductoring would occur near San Marcos Substation of the existing TL 680C line with ACSR/AW and the new TL 6975 line would have 636 ACSS/AW. The work at San Marcos Substation would occur at the same as structure installation for Segment 1. At Escondido Substation, existing overhead conductor would be transferred from the 138 kV rack to an existing 69 kV bay position for the new TL 6975.
- Segment 2 New Build: Addition of approximately 2.8 miles of a new single circuit 69 kV overhead power line from the end of Segment 1to the existing Meadowlark Junction within an existing SDG&E utility corridor. This new segment would be constructed on new steel poles starting near Palomar Airport Road and traveling south to the existing Meadowlark Junction (north of San Elijo Road and Hidden Canyon Road), and be located adjacent to the existing TL 13811/13825 power line. The new single circuit 69 kV steel poles would be constructed within the SDG&E corridor approximately 50 feet east of centerline of the existing structures. All of the new steel poles would have graded roads and access/maintenance pads built to them in order to facilitate construction and provide long-term maintenance access. At Meadowlark Junction the existing 12 kV distribution line

would be reconfigured. Two wood poles would be removed, two steel poles would be installed, and one wood pole would be replaced with steel and include anchoring. The existing access road would be extended and widened to provide access to the new steel poles.

- Segment 3 Reconductoring/Re-Energizing: Reconductoring approximately 7.4 miles of a de-energized transmission line segment to the existing Escondido Substation. Minor work would occur at the existing Escondido Substation to accommodate this new circuit. From Meadowlark Junction to Escondido the new power line would transition to existing steel lattice towers that contain a segment of overhead conductor that is currently de-energized. An approximately 7.4-mile reconductor is required for the de-energized segment that is on the existing lattice towers. The existing lattice tower and steel pole line contains conductor, hardware, and insulators on both sides of the double circuit structures. For this project the 250 thousand circular mils (MCM) copper conductor and porcelain insulators on the north side of the towers would be removed and replaced with polymer insulators and new 636 ACSS/AW conductor. The reconductor would be between Meadowlark Junction and a structure on Harmony Grove Road approximately 500 feet east of Kauana Loa Drive. From this point to the Escondido substation, the existing 900 ACSS/AW conductor would remain in place.

The Proposed Project includes the following main components:

- Removal of approximately 19 poles.
- Replacement of approximately 40 wooden power line poles with 40 weathered steel poles that would be direct buried or supported by foundations.
- Installation of approximately 18 new steel weathered poles that would be either supported by foundations or direct-bury
- Pole-top work reconductoring/re-energizing at approximately 43 structures. Poles would not be replaced, however two of these structures would have anchor work occur.
- Reconductoring near San Marcos Substation of the existing TL 680C 69 kV line with 636 aluminum-clad conductor steel-reinforced (ACSR/AW) wires. The new TL 6975 line would have 636 ACSS/AW.
- Reconductor the existing distribution underbuild.
- Reconductoring near Meadowlark Junction of the existing lattice tower and steel pole line with 636 ACSS/AW conductor.
- No new access roads will be installed, with the exception of four spur roads. Road-widening work in one existing access road area to provide access to the new steel poles and distribution line area at Meadowlark Junction.
- Installation of approximately 50 temporary guard structures.
- Use of approximately 21 stringing sites (12 stringing sections).
- Potential use of 10 staging yards. At Escondido Substation existing overhead conductor would be transferred from the 138 kV rack to an existing 69 kV bay position for the new TL

6975. Three existing 69 kV circuits would be transferred to different bay positions. The last overhead spans (drop spans) of existing power lines TL 6908, TL 6934, and TL 689 would be relocated to available bay positions. New steel poles and replacement guys and anchors would be required to accomplish these relocations.

- Interception of 360 feet of primary and secondary underground conduit from existing poles to new pole positions.
- Rack locations would include approximately 7 areas within the San Marcos and Escondido Substations
- Fifteen structure along the alignment were identified as not requiring work.
- 4 structure areas were identified for possible work.

2. METHODS

2.1 LITERATURE REVIEW

Prior to conducting field surveys, ICF conducted a literature and records search for information on special-status species occurrences within the PSA. The following databases/resources were reviewed for occurrences within 5 miles of the PSA:

- A Biological Constraints Analysis report (KP Environmental 2015) conducted for the project PSA.
- The California Department of Fish and Wildlife (CDFW) Special Animals List (CDFW 2017).
- California Natural Diversity Data Base (CNDDB) (CDFW 2016) element occurrences.
- California Native Plant Society's (CNPS) Online Inventory of Rare and Endangered Plants, 8th Edition (CNPS 2016).
- National Wetlands Inventory database.
- USGS 7.5-minute topographical maps of the PSA and vicinity (USGS 2016).
- U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soil Survey maps (2016).
- Critical Habitat for Threatened and Endangered Species online mapper (USFWS 2017).

For the purposes of this report, species are considered to have special-status if they meet at least one of the following criteria:

- Species listed or proposed for listing as threatened or endangered under the Federal Endangered Species Act (FESA) (Code of Federal Regulations [CFR], Title 50, Section 17.12 [listed plants]).
- 50 CFR 17.11 (listed animals); and various notices in the *Federal Register* (FR) (proposed species).
- Species that are candidates for possible future listing as threatened or endangered under the FESA (79 FR 72450, December 5, 2014).
- Species listed or proposed for listing by the State of California as threatened or endangered under the California Endangered Species Act (CESA) (14 California Code of Regulations [CCR] 670.5).
- Plant species listed as rare under the California Native Plant Protection Act (California Fish and Game Code 1900, et seq.).
- Species that meet the definitions of *rare* or *endangered* under the California Environmental Quality Act (CEQA) (Sections 15380 and 15125).

- Wildlife species of special concern to the CDFW.
- Wildlife species that are fully protected in California (California Fish and Game Code [CFGC] Sections 3511 [birds], 4,700 [mammals], 5050 [amphibians and reptiles], and 5515 [fish]).
- Species listed as having a California Rare Plant Rank (CRPR) as 1A (presumed extinct in California), 1B (rare, threatened, and endangered in California and elsewhere), or 2 (rare, threatened, or endangered in California, but more common elsewhere) (CNPS 2016). CRPR List 1A, 1B, 2, and 3 species are considered special-status plant species as defined in the Native Plant Protection Act, CFGC Section 1901, or the CESA, CFGC Sections 2050 through 2098.
- CRPR 3 (plants for which more information is needed [a review list]), or 4 (plants of limited distribution [watch list]) (CNPS 2016). Many CRPR 4 species do not meet the definitions of special-status as defined in the Native Plant Protection Act, CFGC Section 1901, or the CESA, CFGC Sections 2050 through 2098 but are strongly recommended for consideration under CEQA (CNPS 2001).

The results of the literature review were compiled into a list of potentially occurring plant and wildlife species, and each species was analyzed for their potential to occur within the PSA.

Table 1: Criteria for Evaluating Special-Status Species Potential to Occur

Potential	Criteria
Not Expected	Species is restricted to habitats or environmental conditions that do not occur within the PSA, or a plant was not observed during focused rare plant surveys that would have been observed if present in the PSA (i.e., a conspicuous perennial, shrub or tree).
Low	Records for this species exist within 5 miles of the PSA but habitats or environmental conditions needed to support the species do not exist, are very limited, are isolated, or are highly disturbed within the PSA. Low potential to occur may also be used when species records are very old (pre-1980s), regardless of habitat conditions within the PSA. For special-status plants, low potential may also be used when the plant was not observed during special-status plant surveys and its lack of detectability may be due to environmental limitations such as drought or annual variability in germination (i.e., bulbiferous perennials, annuals).
Moderate	Records for this species exist within 1-5 miles of the PSA, however habitats or environmental conditions needed to support the species are limited within the PSA. Species records indicate few previously documented occurrences within 1 mile of the PSA.
High	Records for this species exist within 1 mile of the PSA and habitats or environmental conditions needed to support the species exists within the PSA. Species records indicate previously documented occurrences within 1 mile of the PSA.
Present	Species was detected within or near the PSA during Proposed Project surveys.

2.2 VEGETATION COMMUNITIES

Vegetation communities were mapped within the PSA in 2015 and in 2017 for the staging yards. Vegetation community classification followed Holland (1986), as updated by Oberbauer (2008). The vegetation communities present within the survey area were mapped using a minimum mapping unit of 1.0 acre for upland vegetation communities and 0.5 acre for riparian vegetation communities.

2.3 SPECIAL-STATUS PLANTS

Based on information obtained through the literature review and reconnaissance surveys, surveys for special-status plants were deemed necessary. All suitable habitat within the PSA was surveyed except between structures 103 and 104 due to non-SDG&E active construction precluding access at the time of the surveys. The total survey area was 322 acres and did not include areas mapped as developed, disturbed, intensive agriculture, or orchard vineyard. Focused rare plant surveys were performed in accordance with survey protocols set forth by *Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed, and Candidate Plants* (USFWS 2000a); *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFG 2009); and *CNPS Botanical Survey Guidelines* (CNPS 2001).

Surveys were conducted in March, April, and May 2016 (Table 2: Survey Personnel and Dates). All plant species observed within the survey area were recorded and identified to species, subspecies, or variety as applicable using *The Jepson Manual Vascular Plants of California Second Edition* (Baldwin et al. 2012). Plant taxonomy and nomenclature followed the *Checklist of The Vascular Plants of San Diego County Fifth Edition* (Rebman and Simpson 2014).

Table 2: Biological Surveys

Survey	Date			Personnel
2016				
California gnatcatcher (PSA)	March 15 March 17 March 22 March 29 March 30 April 1* April 12**† April 13*‡ April 14	April 16 April 25*‡ April 27 April 28 May 3* May 9* May 10† May 12 June 5	June 7♣ June 8† June 12	Kimberly Ferree * with Ryan Layden ** with Camilla Estes, † with Nicole Salas, ‡ with Julia Vandergarder, ♣ with Courtney Casey
Least Bell's vireo (PSA)	May 8* May 21 June 1 June 13	June 24 July 5 July 16 July 30		K. Ferree * with C. Estes

Survey	Date		Personnel
Southern Willow Flycatcher (PSA)	May 21 June 1 June 13	June 24 July 5	K. Ferree
Vegetation mapping and rare plant surveys (PSA)	March 23* March 24* March 25 March 28* March 29	March 30 April 29 May 2 May 13*	Lance Woolley * with Keoni Calantas
2017			
Vegetation mapping and rare plant surveys (Staging Yards)	March 16 April 13		L. Woolley, Brett Bowen

The location of special-status plants was mapped with a hand-held, submeter-accuracy global positioning system (GPS) unit. Subsequent to the field survey, data were downloaded from the GPS unit, post-processed, and brought into a geographic information system (GIS) for analysis.

2.4 SPECIAL-STATUS WILDLIFE

Based on the results from the literature review, protocol surveys were deemed necessary to determine the presence/absence of the following special-status species within the PSA: coastal California gnatcatcher (*Polioptila californica californica*), least Bell's vireo (*Vireo bellii pusillus*), and southwestern willow flycatcher (*Empidonax traillii extimus*). The methodology for these protocol surveys is summarized below. A complete description of the methods used to perform these surveys is provided in Appendix B 2016 Coastal California Gnatcatcher, Least Bell's Vireo, and Southwestern Willow Flycatcher.

2.4.1 Coastal California Gnatcatcher Surveys

Due to the presence of suitable habitat for coastal California gnatcatcher, including coastal sage scrub habitat, presence/absence surveys were conducted in accordance with the U.S. Fish and Wildlife Service (USFWS) protocol (USFWS 1997). Six protocol surveys were conducted at least one week apart between March 15 and June 12, 2016. During the first survey, all potentially suitable gnatcatcher habitat, including coastal sage scrub, chaparral, and grassland vegetation communities, was surveyed throughout the entire PSA. After the initial survey, six survey areas were determined to contain suitable habitat and were surveyed during the remaining five surveys. Habitat determined to be unsuitable was excluded from further surveys. A pre-recorded audiotape playback was used to locate gnatcatchers. Once a gnatcatcher was detected either visually or aurally, playback was ceased. Surveys were performed during morning hours prior to 12:00 p.m., when gnatcatchers are most active. Some surveys finished between 12:00 p.m. and 1:30 p.m. when weather conditions were good (<70°F) and birds were observed to be active.

2.4.2 Least Bell's Vireo Surveys

Due to the presence of suitable habitat within the PSA, focused surveys for least Bell's vireo were determined necessary. Methods for the least Bell's vireo surveys adhered to the recommended guidelines provided by the USFWS for presence/absence surveys (USFWS 2001). After the initial survey of all riparian habitat within PSA, one area was identified and determined to contain suitable vireo habitat. All other riparian areas were excluded because they were either not suitable or too small to support a vireo territory (<0.1 acre). ICF biologists conducted eight presence/absence surveys for least Bell's vireo between May 9 and July 30, 2016. All visits were performed during morning hours prior to 11:30 a.m. when vireos are most active, and included frequent stops to look for individuals and listen for vocalizations (songs and/or scolds).

2.4.3 Southwestern Willow Flycatcher Surveys

Due to the presence of suitable habitat within the PSA, focused surveys for southwestern willow flycatcher were determined necessary. Five protocol southwestern willow flycatcher surveys of the same survey area as the least Bell's vireo were conducted following the amended survey methodology between May 21 and July 5, 2015 (Sogge et al. 2010, USFWS 2000). One survey occurred within the first survey period (May 15–31), three within the second survey period (June 1–24), and one within the third survey period (June 25–July 17). Each survey was conducted at least five days apart and was concluded by 11:30 a.m. Surveys included thorough coverage of all potentially suitable habitats, which consisted of slowly walking with frequent stops to look, listen, and play recordings of flycatcher vocalizations. Recordings were played at distance intervals of approximately 75–100 feet, and only while stationary and after first looking and listening for any potential flycatchers.

2.5 JURISDICTIONAL DELINEATION

Aquatic resource specialists, Lanika Cervantes, Amanda Parra, and Marissa Maggio, performed an informal jurisdictional determination on all aquatic resources potentially impacted by the Proposed Project. Prior to conducting fieldwork, ICF biologists reviewed aerial photographs and U.S. Geological Survey topographic maps of the PSA to identify likely jurisdictional wetlands and waters. Once on-site, the potential jurisdictional wetlands and waters were surveyed to determine the presence of any wetlands or waters under the jurisdiction of the USACE, California Department of Fish and Wildlife (CDFW), and/or Regional Water Quality Control Board (RWQCB). A combination of vehicular and pedestrian surveys were performed at all pole locations and project access roads within the PSA. Features were evaluated for potential state and federal jurisdiction under Section 401 and 404 of the Clean Water Act (CWA) and/or CFGC Sections 1600-1602. The location of each feature was recorded using a handheld GPS unit and stream center-lines were digitized using GIS. Photographs were taken of all features within the PSA. Detailed methods of the jurisdictional waters and wetlands survey are presented in the *TL 6975 Final Memo* included in Appendix C Jurisdictional Delineation Report for the SDG&E TL 6975 Escondido to San Marcos New 69 kV Project.

2.5.1 U.S. Army Corps of Engineers and Regional Water Quality Control Board Jurisdictional Delineations

Non-wetland waters under the jurisdiction of the U.S. Army Corps of Engineers (USACE) and Regional Water Quality Control Board (RWQCB) were delineated based on the presence of ordinary high water mark (OHWM) indicators, as defined in *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (Lichvar and McColley 2008). Changes in particle size, water staining, changes in vegetation cover/species, changes in slope from the active floodplain to the low terrace, shelving, and discernible bed and bank were the most common indicators used to delineate OHWMs in the survey area.

Under California's Porter-Cologne Water Quality Control Act, the RWQCB regulates the discharge of waste to waters of the state. The term *waters of the state* is defined as "any surface water or groundwater, including saline waters, within the boundaries of the state." This definition of waters of the state is broader than that for waters of the United States in that all waters are considered to be a water of the state regardless of circumstances or condition. During the jurisdictional delineation, RWQCB jurisdiction was mapped identical to USACE jurisdiction because all jurisdictional features were considered to have a connection to a Traditional Navigable Water or Relatively Permanent Water; none were considered isolated features.

Features were also assessed for the potential to support jurisdictional wetlands. As described in the *Wetland Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008) the following three criteria normally must be fulfilled in order to classify an area as a jurisdictional USACE wetland: (1) a predominance of hydrophytic vegetation, (2) the presence of hydric soils, and (3) the presence of wetland hydrology.

2.5.2 CDFW Jurisdictional Delineation

Pursuant to CFGC, Chapter 6, Section 1600, et seq., CDFW has jurisdiction that includes the "…bed, channel or bank of any river, stream or lake designated by the department in which there is any time an existing fish or wildlife resource or from which these resources derive benefit…" During the jurisdictional delineation, the CDFW jurisdiction over streams was determined to extend from the top of bank to the opposite top of bank (bank-to-bank) or to the limits of riparian vegetation if this vegetation extends beyond the top of the banks, whichever is greater.

3. EXISTING CONDITIONS

3.1 REGULATORY SETTING

3.1.1 Federal

Several regulations have been established by federal, state, and local agencies to protect and conserve biological resources. The discussion below provides a brief overview of agency regulations that may be applicable to the resources that occur within the PSA and their respective requirements. The final determination of whether permits are required is made by the regulating agencies.

Federal Endangered Species Act of 1973

The FESA protects plants and wildlife that are listed as endangered or threatened by the USFWS and the National Oceanic and Atmospheric Administration's (NOAA) National Marine Fisheries Service. The FESA prohibits take of endangered wildlife, where *take* is defined as to "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in such conduct" (16 United States Code [USC] Section 1532[19]; see also, 16 USC 1538). For plants, this statute governs removing, possessing, maliciously damaging, or destroying any listed plant on federal land and removing, cutting, digging up, damaging, or destroying any listed plant on non-federal land in knowing violation of any law (16 USC Section 1538(a)(2)(B)).

Under Section 7 of the FESA, federal agencies are required to consult with the USFWS if their actions, including permit approvals or funding, could adversely affect a listed species (including plants) or its critical habitat. Through consultation and the issuance of a Biological Opinion, the USFWS may issue an incidental take statement, allowing take of the species that is incidental to another authorized activity, provided that the action would not jeopardize the continued existence of the species. Section 10 of the FESA provides for issuance of incidental take permits to private parties with the development of a habitat conservation plan (HCP), such as the SDG&E Natural Communities Conservation Plan (NCCP) and Low-Effect HCP for Quino Checkerspot Butterfly (QCB).

Migratory Bird Treaty Act, as Amended (16 USC 703-711)

The federal Migratory Bird Treaty Act (16 USC Section 703(a)) first enacted in 1916, prohibits any person, unless permitted by regulation, to:

> …pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess, offer for sale, sell, offer to barter, barter, offer to purchase, purchase, deliver for shipment, ship, export, import, cause to be shipped, exported, or imported, deliver for transportation, transport, cause to be transported, carry, or cause to be carried or receive for shipment, transportation, carriage, or export any migratory bird, any part, nest, or egg of any such

> bird, or any product…composed in whole or part, of any such bird or any part, nest, or egg thereof…

The list of migratory birds includes nearly all migratory bird species native to the U.S. The Migratory Bird Treaty Reform Act of 2004 further defined species protected under the act and excluded all non-native species. The statute was extended in 1974 to include parts of birds, as well as eggs and nests.

Clean Water Act of 1977 (Public Law 95-217)

The purpose of the CWA is to "restore and maintain the chemical, physical, and biological integrity of the nation's waters." (33 USC 1251(a)). Section 404 of the CWA prohibits the discharge of dredge or fill material into waters of the United States without a permit from the USACE. The definition of *waters of the United States* includes rivers, streams, estuaries, the territorial seas, ponds, lakes, and wetlands (33 CFR 328.3[a]). Wetlands are defined as those areas "that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 CFR Section 328.3[b]). The U.S. Environmental Protection Agency has veto authority over the USACE's administration of the Section 404 program and may override a USACE decision with respect to permitting.

When a project may create impacts on waters of the United States, the project requires a permit or a waiver. Substantial impacts on waters of the United States may require an Individual Permit. Projects that only minimally affect waters of the United States may meet the conditions of one of the existing Nationwide Permits, provided the permit's other respective conditions are satisfied. A Water Quality Certification or waiver pursuant to Section 401 of the CWA is required for Section 404 permit actions, and any federal action affecting waters. For the Proposed Project, this certification or waiver would need to be issued by the San Diego RWQCB.

Bald and Golden Eagle Protection Act, as Amended (16 USC 668-668c)

The Bald and Golden Eagle Protection Act (BGEPA) (16 USC Section 668) provides protection for both the bald eagle (*Haliaeetus leucocephalus*) and the golden eagle (*Aquila chrysaetos*) by prohibiting the take of either of these species, including their parts, nests or eggs. The BGEPA defines take as to "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb" any bald or golden eagle. The BGEPA is administered by the USFWS, and limited take authorizations are granted for qualifying activities. Persons who "take, possess, sell, purchase, barter, offer to sell, purchase or barter, transport, export or import, at any time or any manner any bald eagle… [or golden eagle], alive or dead, or any part, nest, or egg thereof" without prior approval are subject to criminal penalties.

3.1.2 State

California Environmental Quality Act

CEQA was enacted in 1970 to provide for full disclosure of environmental impacts to the public before issuance of a discretionary permit by a public agency. The CEQA analysis includes review of species that are listed under the FESA or CESA or are designated as sensitive. Sensitive species include, but are not limited to, wildlife Species of Special Concern (SSC) listed by CDFW and plant species in the CNPS's CRPR List 1A (presumed extinct), List 1B (rare, threatened, or endangered in California and elsewhere; eligible for state listing) or List 2 (rare, threatened or endangered in California but more common elsewhere; eligible for state listing).

California Endangered Species Act

The CESA prohibits the taking, possession, purchase, sale, and import or export of endangered, threatened, or candidate species, unless otherwise authorized by permit or in the regulations. Take is defined in CFGC Section 86 as to "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." CESA allows for take incidental to otherwise lawful projects. CDFW administers CESA and authorizes take through permits issued under CFGC Section 2081, or through a consistency determination issued under Section 2080.1 for projects with federal take authorizations.

State Fully Protected Species

The State of California designated species as fully protected (FP) prior to the creation of CESA and FESA. Lists of FP species were initially developed to provide protection to species that were rare or faced possible extinction/extirpation. Most FP species have since been state listed as threatened or endangered species. Under CFGC Section 4700, fully protected mammals may not be taken or possessed at any time.

In September 2011, the Natural Community Conservation Planning Act was amended to permit the incidental take of 36 fully protected species pursuant to an NCCP approved by CDFW (CFGC Section 2835). The amendment gives FP species the same level of protection as endangered and threatened species under the Natural Community Conservation Planning Act. (Fish and Game Code Section 2835). The Natural Community Conservation Planning Act, enacted in the 1990s, authorizes the incidental take of species "whose conservation and management" is provided for in a conservation plan approved by CDFW.

California Species of Special Concern

In addition to formal listing under FESA and CESA, certain species receive additional consideration by CDFW and lead agencies during the CEQA process. Species that may be considered for review are included on a list of SSC developed by CDFW. The list tracks species in California whose numbers, reproductive success, or habitat may be in decline.

California Fish and Game Code

Pursuant to CFGC Sections 1600–1616, CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife. The California Fish and Game Commission defines a *stream* (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation." (14 CCR 1.72). The Commission's definition of *lake* includes "natural lakes or man-made reservoirs." (14 CCR 1.56). CDFW limits of jurisdiction include the maximum extents of the uppermost bank-to-bank distance or riparian vegetation dripline. CDFW jurisdiction within altered or artificial waterways is based upon the value of those waterways to fish and wildlife.

The State of California has incorporated the protection of birds in CFGC Sections 3503, 3503.5, 3513, and 3800.

California Native Plant Protection Act

The Native Plant Protection Act of 1977 (CFGC Sections 1900–1913) includes provisions that prohibit the taking of endangered or rare native plants. CDFW administers the law and generally regards as rare many plant species included on CRPR 1A, 1B, 2A, and 2B of the CNPS Inventory of Rare and Endangered Vascular Plants of California. In addition, sometimes CRPR 3 and 4 plants are considered rare if the population has local significance in the area and is impacted by the project.

Section 1913(b) allows for the incidental removal of endangered or rare plant species within a right-of-way (ROW) to allow a public utility to fulfill its obligation to provide service to the public. CDFW must be given 10 days prior notice to salvage the plants.

Porter-Cologne Water Quality Control Act of 1966

The Porter-Cologne Water Quality Control Act (California Water Code Section 13000 et seq.) mandates that activities that may affect waters of the state be regulated to attain the highest water quality. The State Water Resources Control Board and the local RWQCB are the relevant permitting agencies. The RWQCB provides regulations for a "non-degradation policy" that are especially protective of waters with high quality. Porter-Cologne reserves the right for the State of California to regulate activities that could affect the quantity and/or quality of surface and/or ground waters, including isolated wetlands, within the state. Waters of the state include isolated waters that are no longer regulated by the USACE. If the project is proposed to discharge into waters of the state, a Waste Discharge Report must be filed.

California Natural Community Conservation Planning Program

The California NCCP program was initiated in 1991 and is administered by CDFW. It is a cooperative effort by CDFW and numerous public and private partners that takes a broad-scale,

ecosystem approach to planning for the protection and perpetuation of the biological diversity throughout California by protecting both habitats and the species within these habitats, while also accommodating compatible land use.

An NCCP identifies and provides for the regional protection of plants, wildlife, and their habitats, while allowing compatible and appropriate economic activities in the region. By including key interests in the process and by working with landowners, environmental organizations, and other interested parties, an NCCP plan provides the framework for a local agency to oversee the numerous activities that compose the development of a conservation plan. CDFW and USFWS provide the necessary support, direction, and guidance to NCCP participants during the NCCP development and implementation. Within California, there are currently 23 active NCCPs covering more than 11 million acres, and several draft NCCP plans are pending approval.

SDG&E has a current, agency-approved NCCP plan called the *SDG&E Subregional Natural Community Conservation Plan* (SDG&E 1995). This plan is discussed in detail in the following section.

3.2 LOCAL

SDG&E is a public utility regulated by the CPUC. Local governments are precluded from regulating public utilities through their zoning laws, land use laws, ordinances, and other police powers by the exclusive jurisdiction of CPUC. The Proposed Project is not subject to local discretionary regulations related to biological resources because the California Public Utilities Commission (CPUC) has exclusive jurisdiction over the siting, design, and construction of the Proposed Project. The following analysis of local regulations relating to biological resources is provided for informational purposes.

SDG&E Subregional Natural Community Conservation Plan

In December 1995, the USFWS and CDFW approved the SDG&E Subregional NCCP, developed in coordination with such agencies that address potential impacts on species and habitat associated with SDG&E's ongoing installation, use, maintenance, and repair of its gas and electric systems, and typical expansion to those systems throughout much of SDG&E's existing service territory. As a part of the SDG&E Subregional NCCP, SDG&E has been issued incidental take permits (Permit PRT-809637) by USFWS and CDFW for 110 Covered Species. The SDG&E Subregional NCCP was developed by following the multiple species and habitat conservation planning approach. The SDG&E Subregional NCCP includes operational protocols that apply to construction and operation and maintenance activities. In approving the NCCP, USFWS and CDFW determined that compliance with the NCCP avoids potential impacts, provides appropriate mitigation where such impacts are unavoidable, and ensures the protection and conservation of Covered Species.

As stated in the SDG&E Subregional NCCP Implementing Agreement, the SDG&E Subregional NCCP "is independent of other NCCP/HCPs and the Covered Species for which incidental take is authorized under the take authorizations is not dependent upon the implementation of such plans." SDG&E has adopted appropriate project design features and intends to implement applicable Operational Protocols from Section 7.1 of the NCCP to minimize potential construction-related impacts of the Proposed Project.

County of San Diego General Plan

The *County of San Diego General Plan* (2011) provides direction for future growth in the unincorporated areas of San Diego County, and provides policies related to land use, mobility, conservation, housing, safety, and noise. The *County of San Diego General Plan Land Use Element* provides a framework for managing future development in the County so that it is thoughtful of the existing character of the current communities and the special-status natural resources within the County.

The *County of San Diego General Plan* contains the following relevant policies:

> *Conservation and Open Space (COS) Policy COS-1.2: Minimize Impacts.* Prohibit private development within established preserves. Minimize impacts within established preserves when the construction of public infrastructure is unavoidable.
>
> *Conservation and Open Space Policy COS-1.3: Management.* Monitor, manage, and maintain the regional preserve system facilitating the survival of native species and the preservation of healthy populations of rare, threatened, or endangered species.

San Diego Multiple Species Conservation Program (Southwestern San Diego County)

Under the Natural Community Conservation Planning Act of 1991, an MSCP has been developed for southwestern San Diego County in order to protect 85 species in the area. The Multiple Species Conservation Program (MSCP) is one of three subregional habitat planning efforts in San Diego County. The other two—the Multiple Habitat Conservation Program (MHCP) and the North County MSCP—are described in the following subsections.

The San Diego MSCP was approved in 1997 and is the result of a joint planning effort between the County of San Diego and the cities in the southwestern part of the county, including San Diego. The City of San Diego adopted its own MSCP Subarea Plan in 1997 to implement the regional MSCP. New development must comply with the boundaries established within the plan, and guidelines for development include restoration of coastal sage scrub when disturbed. In addition, the MSCP Subarea Plan includes the policies and design guidelines regarding utilities.

San Diego Multiple Habitat Conservation Program

The Multiple Habitat Conservation Program (MHCP) is a comprehensive conservation planning process that addresses the needs of multiple plant and animal species in northwestern San Diego

County. The MHCP encompasses the cities of Carlsbad, Encinitas, Escondido, Oceanside, San Marcos, Solana Beach, and Vista. Its goal is to conserve approximately 19,000 acres of habitat, of which roughly 8,800 acres (46 percent) are already in public ownership and contribute toward the habitat preserve system for the protection of more than 80 rare, threatened, or endangered species. The MHCP encompasses 111,908 acres (29,962 acres of natural habitat). NCCP permits are issued to participating cities upon completion and CDFW approval of their individual subarea plans. Subarea plans describe the specific policies each city institutes for the MHCP.

The MHCP contains the overall conservation strategy for the subregion and documents the conservation actions that collectively will guarantee the protection of species covered by individual subarea plans. The subregional MHCP also describes the institutional mechanisms to coordinate MHCP implementation among the cities and other agencies. The subregional MHCP does not by itself authorize the take of biological resources and does not receive a permit. Permits or authorizations to take biological resources will be granted to individual cities preparing adequate subarea plans, which describe the specific conservation and management actions each city will take to implement the goals, guidelines, and standards of the MHCP.

A specific policy of the MHCP is to direct land development to areas outside the Focused Planning Area (FPA)[1] in exchange for conservation inside, resulting in the creation of a preserve system. The MHCP preserve system is intended to protect viable populations of native plant and animal species and their habitats in perpetuity, while accommodating continued economic development and quality of life for residents of North County.

Portions of the Proposed Project is anticipated to occur within limits of the following subarea plans:

- City of Carlsbad Subarea Plan, approved in 2004;
- City of San Marcos Subarea Plan, which is still currently in draft form;
- City of Escondido Subarea Plan, which is still currently in draft form;

North County Multiple Species Conservation Program

The North County Multiple Species Conservation Program (North County Plan) would extend the County's MSCP into the northwestern areas of the County. The draft North County Plan underwent a public review in 2009. Comments received during the public review period are now

[1] The FPAs and percent conservation estimates provided in the MHCP were used to analyze the levels of biological conservation expected throughout the MHCP area. Some lands within FPAs have been or will be dedicated for open space and habitat preservation. The FPAs are represented by a combination of "hardline" preserves, indicating lands that will be conserved and managed for biological resources, and "softline" planning areas, within which preserve areas will ultimately be delineated based on further data and planning.

being used to revise the draft North County Plan. The County and its consultants have also initiated work on the environmental documents that will accompany the draft North County Plan.

The North County Plan area encompasses 294,849 acres in and around the unincorporated communities of Bonsall, De Luz, Fallbrook, Harmony Grove, Rancho Santa Fe, Lilac, Pala, Pauma Valley, Rainbow, Ramona, Rincon Springs, Twin Oaks Valley, and Valley Center. In order to maintain biodiversity and ecosystem health, the draft North County Plan incorporates goals including biological goals, economic goals, and social goals. The North County Plan has designated pre-approved mitigation areas (PAMAs). These are areas with high biological value in which conservation will be encouraged by providing mitigation ratios that favor developing outside of the PAMA and mitigating inside the PAMA.

The unincorporated areas of the Proposed Project, primarily within the middle of the new TL 6975, occur within areas included in the draft North County Plan.

County of San Diego Tree Ordinance

The San Diego Regulatory Code of Ordinances, Title 7, Division 1, Chapter 5 regulates the planting, trimming and removal of trees on County-owned property and County highways. However, the Proposed Project is anticipated to occur within SDG&E's ROW, and no conflicts should occur with any other conservation plans or County tree ordinances. SDG&E is a public utility regulated by the CPUC. Local governments are precluded from regulating public utilities through their zoning laws, land use laws, ordinances, and other police powers by the exclusive jurisdiction of CPUC.

Other Preserve Lands

The PSA traverses a number of lands preserved for conservation purposes (Appendix A, Figure 3: Preserves and Critical Habitat). This includes lands permanently protected as part of regional habitat conservation planning and includes the County-owned Sage Hill Preserve, the Center for Natural Lands Management (CNLM)-managed University Commons, the Rancho Dorado HOA Preserve, Carlsbad Raceway Open Space Preserve, San Elijo Hills Open Space, and the Carrillo Ranch Reserve. The Proposed Project would be located within SDG&E's ROW within these conserved lands.

3.3 BIOLOGICAL RESOURCE SETTING

San Diego County is a biologically diverse region that supports rare and declining native habitats, numerous federally and state-listed plant and animal species, and an increasing amount of federally designated critical habitat for listed species (Appendix A, Figure 3: Preserves and Critical Habitat). The Proposed Project is in the coastal hills of San Diego County's northern valley. Surrounding land use consists of residential neighborhoods, industrial facilities, open space and preserves, and commercial and vacant lands. TL 6975 ranges in elevation from approximately 500 feet to 1,150 feet above mean sea level (AMSL).

3.4 VEGETATION COMMUNITIES

The approximately 680.3-acre PSA traverses diverse terrain and supports a variety of vegetation communities and land cover types, which were classified according to Oberbauer (et al. 2008), which closely follows Holland (1986). The approximate acreages of each of the vegetation communities and land cover types that were mapped within the PSA are summarized in Table 3: Vegetation Communities within the PSA. Vegetation mapping is provided in Appendix A, Figure 4: Vegetation and Special-Status Species.

3.4.1 Disturbed Habitat

Disturbed habitat consists of areas supporting densely to sparsely distributed weedy, non-native vegetation, compacted dirt roads, and other areas do not support vegetation due to human interference. In the PSA, disturbed habitat describes dirt roads and areas supporting non-native herbaceous species such as fennel (*Foeniculum vulgare*), redstem filaree (*Erodium cicutarium*), longbeak filaree (*Erodium botrys*), wild oat (*Avena fatua*), tocalote (*Centaurea melitensis*), and African fountain grass (*Pennisetum setaceum*). Some of the disturbed habitat in the PSA occurred in areas that appeared to have been used for agricultural purposes in the past.

3.4.2 Urban/Developed

Urban/developed areas consist of pavement, asphalt, permanent or semi-permanent structures, hardscape, and associated landscaping. These areas are typically devoid of vegetation with the exception of landscaped areas. Within the PSA, urban/developed areas consisted of navigational roads, gravel roads, private residences, buildings, and associated landscaping.

3.4.3 Orchard/Vineyard

Orchard describes areas supporting the cultivation of non-native plants, such as fruit trees. These trees are typically artificially irrigated and the understory is kept clear of vegetation or support scattered non-native herbaceous plant species. Within the PSA orchards supported cultivated ornamental bushes including book-leaf mallee (*Eucalyptus kruseana*), citrus (*Citrus* sp.), and waxflower (*Chamelaucium* sp.).

3.4.4 Intensive Agriculture

Intensive agriculture includes dairies, nurseries, chicken ranches, and open spaces used to keep livestock, such as corrals. Agricultural areas on site included corrals and associated unvegetated areas. Some of these areas support weedy plant species similar to those listed under Disturbed Habitat.

Table 3: Vegetation Communities within the PSA

Oberbauer Code	Vegetation Community Name	Approximate Acreage in PSA
11300	Disturbed Habitat	124.0
12000	Urban/Developed	247.9
18100	Orchard/Vineyard	10.7
18300	Intensive Agriculture	0.8
32500	Diegan Coastal Sage Scrub*	103.5
	Diegan Coastal Sage Scrub-Burned*	0.6
	Diegan Coastal Sage Scrub-Disturbed*	18.7
37G00	Coastal Sage-Chaparral Transition*	125.6
37C30	Southern Maritime Chaparral*	20.8
	Southern Maritime Chaparral-Burned*	1.0
42200	Non-native Grassland*	9.9
52400	Emergent Wetlands*	0.6
52410	Coastal and Valley Freshwater Marsh*	0.2
61300	Southern Riparian Forest*	3.9
61310	Southern Coast Live Oak Riparian Forest*	0.7
63310	Mule Fat Scrub*	0.1
63320	Southern Willow Scrub*	0.4
	Southern Willow Scrub-Disturbed*	0.0
64140	Fresh Water	0.2
71660	Coast Live Oak Woodland*	5.9
	Coast Live Oak Woodland-Disturbed*	0.3
79000	Non-native Woodland	1.0
79100	Eucalyptus Woodlands	3.6
Grand Total		**680.3**
* Indicates a sensitive natural community		

3.4.5 Diegan Coastal Sage Scrub

Diegan coastal sage scrub is described as being composed of low-growing, aromatic, drought-deciduous, soft-woody shrubs that have an average height of 3 to 4 feet. This habitat is typically found on sites with steep, dry slopes or on clay-rich soils that are slow to release stored water. These sites often include drier south and west facing slopes and occasionally north facing slopes, where the community can act as a successional phase of chaparral development.

In the PSA, Diegan coastal sage scrub supported California sagebrush (*Artemisia californica*), black sage (*Salvia mellifera*), California buckwheat (*Eriogonum fasciculatum*), laurel sumac (*Malosma laurina*), deerweed (*Acmispon glaber* var. *brevialatus*), spreading goldenbush (*Isocoma menziesii*), California encelia (*Encelia californica*), blue-eyed-grass (*Sisyrinchium bellum*), fascicled tarplant (*Deinandra fasciculata*), windmill catchfly (*Silene gallica*), and dotseed plantain (*Plantago erecta*).

The abundance of non-native plant species, as well as the sparse distribution of typically dominant shrub species, are the characteristics that distinguish Diegan coastal sage scrub-disturbed from undisturbed Diegan coastal sage scrub. In the PSA Diegan coastal sage scrub-disturbed was predominated by black sage, California buckwheat, or spreading goldenbush. Other plants commonly found in Diegan coastal sage scrub-disturbed included shortpod mustard (*Hirschfeldia incana*), California sagebrush, prickly Russian thistle, wild oat, fascicled tarplant, and coyote bush.

Portions of Diegan coastal sage scrub occurring in the southwestern portion of the PSA burned during the Poinsettia Fire in 2014. In the vegetation maps these areas are labeled Diegan coastal sage scrub-burned. Shrubs in Diegan coastal sage scrub-burned were re-sprouting and included laurel sumac, spreading goldenbush, California sagebrush, and wild cucumber (*Marah macrocarpa*).

3.4.6 Coastal Sage-Chaparral Transition

Coastal sage-chaparral transition consists of a mixture of herbaceous, suffrutescent, and shrubby species that forms a community with features of both coastal sage scrub and chaparral. It appears to be a post-fire successional community.

In the PSA, coastal sage-chaparral scrub is dominated by chamise and California sagebrush and occurred adjacent to Diegan coastal sage scrub. This vegetation community also supports coyote bush (*Baccharis pilularis*), black sage, sawtooth goldenbush, and laurel sumac.

3.4.7 Southern Maritime Chaparral

Southern maritime chaparral is typically a low-growing chaparral with open vegetation and occurs in areas within the fog belt. This habitat type is dominated by wart-stem-lilac (*Ceanothus verrucosus*) with Del Mar manzanita (*Arctostaphylos glandulosa* ssp. *crassifolia*) often occurring as a co-dominant.

In the PSA, southern maritime chaparral was dominated by wart-stem-lilac and for the most part consisted of a tall, impenetrable stand of woody shrubs. Other plants detected in this vegetation community included chamise (*Adenostoma fasciculatum*), black sage, sawtooth goldenbush (*Hazardia squarrosa*), mission manzanita (*Xylococcus bicolor*), bushrue (*Cneoridium dumosum*), white flowering currant (*Ribes indecorum*), Nuttall's snapdragon (*Antirrhinum*

nuttallianum), heartleaf bush penstemon (*Keckiella cordifolia*), California brickellbush (*Brickellia californica*), slender sunflower (*Helianthus gracilentus*), and blue dicks (*Dichelostemma capitatum*).

Portions of southern maritime chaparral occurring in the southwestern portion of the PSA burned during the Poinsettia Fire in 2014. In the vegetation maps these areas are labeled southern maritime chaparral-burned. Shrubs in southern maritime chaparral-burned were re-sprouting and these areas supported additional species including large flower phacelia (*Phacelia grandiflora*), Fendler's meadow-rue (*Thalictrum fendleri*), and pineapple weed (*Matricaria discoidea*).

3.4.8 Non-native Grassland

Non-native grassland consists of a dense to sparse cover of annual grasses with flowering culms measuring approximately one meter high, which may include numerous native wildflowers, particularly in years of high rainfall (Holland 1986). These annuals germinate with the onset of the rainy season and set seeds in the late spring or summer.

In the PSA, non-native grassland supports wild oat, ripgut brome (*Bromus diandrus*), shortpod mustard, fascicled tarplant, Crete weed (*Hedypnois cretica*), prickly Russian thistle, and spreading goldenbush. Some of the non-native grasslands in the survey area occurred in areas that appeared to have been used for agricultural purposes in the past.

3.4.9 Emergent Wetlands

Emergent wetlands occur in areas with relatively persistent wetlands hydrology and shallow water conditions, often in previously disturbed areas where wetlands are emerging. Although the vegetation community is directly affected by flooding, the presence of emergent wetlands is typically controlled by the presence of groundwater.

Emergent wetland in the PSA supports spikerush (*Eleocharis* sp.), annual saltmarsh aster (*Symphyotrichum subulatum*), rabbit foot beard grass (*Polypogon monspeliensis*), ditch beard grass (*Polypogon interruptus*), and great marsh evening primrose. This vegetation community occurred within a detention basin.

3.4.10 Coastal and Valley Freshwater Marsh

Coastal and valley freshwater marsh occurs in areas flooded by freshwater that lack a significant current. It is typically dominated by perennial, emergent monocots typically measuring 13 to 16 feet in height.

In the PSA coastal and freshwater marsh supported southern cattail (*Typha domingensis*), California bulrush (*Schoenoplectus californicus*), great marsh evening primrose (*Oenothera elata*), and curly dock (*Rumex crispus*). This vegetation community occurred within a detention basin.

3.4.11 Southern Riparian Forest

Southern riparian forest is a winter-deciduous forest dominated by moderately tall broadleafed trees with a closed or moderately closed canopy. This vegetation community is typically found along streams and rivers.

Southern riparian forest in the PSA is predominated by red willow (*Salix laevigata*), mule fat (*Baccharis salicifolia*), Goodding's black willow (*Salix gooddingii*), San Diego marsh-elder (*Iva hayesiana*), great marsh evening primrose, western ragweed (*Ambrosia psilostachya*), and yerba mansa (*Anemopsis californica*). This vegetation community occurred along streams and canyon bottoms.

3.4.12 Southern Coast Live Oak Riparian Forest

Southern coast live oak riparian forest is a dense forest dominated by coast live oak. It has a closed or almost closed canopy and has an understory that is typically richer in herbs and poorer in shrubs compared to other riparian communities. This vegetation community occurs in association with bottomlands and the outer floodplains along larger streams.

In the PSA this area had burned recently. The coast live oaks were still alive and present but the understory consisted mostly of non-native species including ripgut brome, blessed milkthistle (*Silybum marianum*), soft brome (*Bromus hordeaceus*), scarlet pimpernel (*Anagallis arvensis*), tocalote, and tumble mustard (*Sisymbrium altissimum*).

3.4.13 Mule Fat Scrub

Mule fat scrub is a depauperate, tall, herbaceous riparian scrub strongly dominated by mule fat. This early seral community is maintained by frequent flooding. It is usually found in intermittent stream channels with fairly coarse substrate and moderate depth to the water table.

In the PSA, mule fat consisted of one small narrow stand of mule fat shrubs adjacent to detention basin supporting coastal freshwater marsh.

3.4.14 Southern Willow Scrub

Southern willow scrub is described as dense, broadleafed, winter-deciduous riparian thickets dominated by several willow species. Most stands are too dense to allow much understory development. This early seral community requires repeated flooding to prevent succession to southern cottonwood-sycamore riparian forest. It is usually found in loose, sandy or fine gravelly alluvium deposited near stream channels during flood flows.

In the PSA southern willow scrub supported young red willow within a detention basin.

The abundance of non-native plant species, as well as the sparse distribution of typically dominant shrub species, are the characteristics that distinguish southern willow scrub-disturbed from undisturbed southern willow scrub. In the survey areas, disturbed southern willow scrub was supported arroyo willow and Peruvian pepper tree. This vegetation community occurred adjacent to non-native woodland along the margins of a pond.

3.4.15 Fresh Water

Fresh water refers to a body of water that is present year-round, such as a lake or a pond. Within the PSA fresh water consists of a pond located along a drainage. This pond supported water at the time of the survey.

3.4.16 Coast Live Oak Woodland

Coast live oak is the dominant tree occurring in coast live oak woodland, reaching 30 to 80 feet in height. The shrub layer is usually poorly developed, and the herb layer is continuous and dominated by non-native grasses. This community typically occurs on north-facing slopes and shaded ravines.

In the PSA, coast live oak woodland was dominated by dense coast live oaks. The understory supported blessed milkthistle, tumble mustard, toyon (*Heteromeles arbutifolia*), coastal woodfern (*Dryopteris arguta*), ripgut brome, soft brome, sheperd's purse (*Capsella bursa-pastoris*), and sticky mouse-ear chickweed (*Cerastium glomeratum*).

The abundance of non-native tree species is the characteristic that distinguishes disturbed coast live oak woodland from undisturbed coast live oak woodland. In the survey areas, disturbed coast live oak woodland supported coast live oak, red gum (*Eucalyptus camaldulensis*), and European olive (*Olea europaea*). The understory consisted of ripgut brome, soft brome, tumble mustard, and shortpod mustard.

3.4.17 Non-native Woodland

Non-native woodland describes a woodland composed of non-native trees that were planted, typically for landscaping purposes, but are not maintained or irrigated. In the PSA, non-native woodland supported Peruvian pepper tree (*Schinus molle*), European olive, and to a lesser degree, red gum and coast live oak.

3.4.18 Eucalyptus Woodland

Eucalyptus woodland is similar to non-native woodland but consists of a monotypic stand of eucalyptus trees (*Eucalyptus* spp.). Eucalyptus woodlands with a dense canopy typically do not support vegetation in the understory while woodlands in which trees are scattered may support a shrubby or herbaceous understory.

3.5 SPECIAL-STATUS PLANTS

Special-status plant species include those species listed by the USFWS and CDFG as endangered, threatened, proposed, or candidate species, and those listed as sensitive or rare. In addition, sensitive plant species include those occurring on the CNPS Inventory of Rare and Endangered Vascular Plants of California (2001). Based on the literature review and field surveys conducted for the Proposed Project, special-status plant species documented from within 5-miles of the PSA were evaluated for their potential to occur (Appendix D Special-Status Plant and Wildlife Species Known or with Potential to Occur in the Survey Area). One special-status plant species was determined to have moderate potential to occur; nine special-status plant species were determine to have low potential to occur, and twelve special-status plant species are not expected to occur. Thirteen special-status plant species were detected within the PSA during spring 2016 surveys. These species include ashy spike-moss (*Selaginella cinerascens*), California adolphia (*Adolphia californica*), golden-rayed pentachaeta (*Pentachaeta aurea* ssp. *aurea*), Nuttall's scrub oak (*Quercus dumosa*), Orcutt's brodiaea (*Brodiaea orcuttii*), Palmer's grapplinghook (*Harpagonella palmeri*), San Diego marsh-elder (*Iva hayesiana*), San Diego sagewort (*Artemisia palmeri*), San Diego sunflower (*Bahiopsis laciniata*), small-flowered microseris (*Microseris douglasii* ssp. *platycarpha*), summer holly (*Comarostaphylis diversifolia* ssp. *diversifolia*), wart-stemmed ceanothus (*Ceanothus verrucosus*), and western dichondra (*Dichondra occidentalis*). Special-status plant species locations are displayed in Appendix A, Figure 4: Vegetation and Special-Status Species.

Other species addressed in Appendix D Special-Status Plant and Wildlife Species Known or with Potential to Occur in the Survey Area, were determined to have either a low potential for occurrence or are not expected to occur within the PSA based on lack of observations during surveys and lack of suitable microhabitat conditions within the PSA. Two special-status plants that were reported in the constraints report as occurring in the PSA were determined by ICF botanists to have been misidentified. San Diego gum plant (*Grindelia hallii*) was reported to have occurred near White Sands drive; however this species is restricted almost exclusively to the Julian-Cuyamaca-Laguna mountain area, and the observation was confirmed to be the more common and widespread gumplant species *Grindelia camporum.* Ramona horkelia (*Horkelia truncata*) was reported near San Elijo Road and Boundary Street by CNDDB within 5 miles of the PSA; this species was confirmed to be the more common and widespread species Wrangel's cinquefoil (*Drymocallis glandulosa* var. *wrangelliana*). Descriptions of the special-status plant species that were observed within the PSA follow.

3.5.1 Thread-leaved Brodiaea

Thread-leaved brodiaea, a federally threatened, state endangered, and CRPR 1B1 species, is a bulbiferous perennial herb found in heavy clay soils below 2000 feet in coastal sage scrub, cismontane woodlands, valley and foothill grassland, vernal pools, and chaparral. It flowers from March to June. USFWS Critical Habitat for thread-leaved brodiaea was designated on December 13, 2005 and is within 1 mile off the PSA. It is threatened by development, agriculture, biocides,

vehicles, and mechanical equipment. Threats also include potential hybridization with *Brodiaea orcuttii* and *Brodiaea terrestris*. Appropriate suitable habitat for this species occurs within the PSA. Plant surveys within the PSA during an appropriate time of year for this species were negative, however the surveys were conducted during a drought year at the end of a succession of drought years, and corms are known to not flower every year. Therefore, this species is determined to have a moderate potential to occur despite negative survey results.

3.5.2 Ashy Spike-Moss

Ashy spike-moss, a CRPR 4.1 species, is a creeping spike-moss typically found in undisturbed chaparral and Diegan coastal sage scrub (Reiser 2001). This species is found in several small patches on exposed rock outcrops and open soils in the western portion of the survey area.

3.5.3 California Adolphia

California adolphia, a CRPR 2B.2 species, is a perennial deciduous shrub in the buckthorn family (*Rhamnaceae*) that flowers December through May. This species occurs primarily within Diegan coastal sage scrub and is threatened by urbanization, road construction, non-native plants, and grazing. Approximately 87 individuals were detected in the northwestern portion of the PSA. Potential habitat for California adolphia occurs between structures 103 and 104, where surveys could not be conducted due to non-SDG&E active construction.

3.5.4 Golden-Rayed Pentachaeta

Golden-rayed pentachaeta, a CRPR 4.2 species, is an annual herb with yellow ray flowers and orange disk flowers that typically grows around grasslands and coastal sage scrub (Reiser 2001). Approximately 271 individuals were detected within the western portion of the PSA.

3.5.5 Nuttall's Scrub Oak

Nuttall's scrub oak, a CRPR 1B.1 species, is a perennial evergreen shrub in the oak family (Fagaceae) that grows within coastal chaparral. Several large stands of this species were detected within the western portion of the PSA. Potential habitat for Nuttall's scrub oak occurs between structures 103 and 104, where surveys could not be conducted due to non-SDG&E active construction.

3.5.6 Orcutt's Brodiaea

Orcutt's brodiaea, a CRPR 1B.1 and a SDG&E NCCP covered species, is a corm-based lily/onion relative with lavender flowers, generally occurring in vernally moist grasslands and the margins of vernal pools (Reiser 2001). This species is extremely threatened by development, foot traffic, grazing, non-native plants, military SDG&E activities, vehicles, road construction, road maintenance, and dumping. Most historical occurrences of this species within the San Marcos area have been extirpated due to development. Approximately 147 individuals were observed within the southwestern portion of the PSA. Potential habitat for Orcutt's brodiaea

occurs between structures 103 and 104, where surveys could not be conducted due to non-SDG&E active construction.

3.5.7 Palmer's Grapplinghook

Palmer's grapplinghook, a CRPR 4.2 and a SDG&E NCCP covered species, is a small herbaceous annual in the borage family (Boraginaceae) that flowers from March through May. This species occurs on clay soils within openings of chaparral and coastal scrub and is threatened by development, trampling, non-native plants, and agriculture. Approximately 300 individuals were detected in the northwestern portion of the PSA.

3.5.8 San Diego Marsh-Elder

San Diego marsh-elder, a CRPR 2B.2 species, is a perennial subshrub in the sunflower family (Asteraceae) that flowers from April through October. This species occurs in marshes, swamps, and playas and is threatened by waterway channelization, coastal development, vehicles, and non-native plants. Several individuals were detected in a riparian area in the western portion of the PSA.

3.5.9 San Diego Sagewort

San Diego sagewort, a CRPR 4.2 species, is a perennial, deciduous shrub in the sunflower family (Asteraceae) that flowers from February through September. This species favors sandy, mesic areas within chaparral, riparian scrub, and riparian woodland. San Diego sagewort is threatened by development and flood control projects. Approximately 56 individuals were detected in the eastern portion of the PSA. Potential habitat for San Diego sagewort occurs between structures 103 and 104, where surveys could not be conducted due to non-SDG&E active construction.

3.5.10 San Diego Sunflower

San Diego sunflower, a CRPR 4.2 species, is a perennial shrub in the sunflower family (Asteraceae*)* that flowers from February through August. This species typically occurs in chaparral and coastal scrub and is threatened by urbanization. One individual was detected in the northwestern portion of the PSA.

3.5.11 Small-Flowered Microseris

Small-flowered microseris, a CRPR 4.2 species, is a diminutive herbaceous annual in the sunflower family (Asteraceae) that flowers from March through May. This species occurs in openings within coastal scrub, valley and foothill grasslands, and vernal pools. This species is declining due to development and non-native plants. Approximately 15 individuals were detected in the western portion of the PSA.

3.5.12 Summer Holly

Summer holly is a perennial evergreen shrub in the heath family (Ericaceae) that flowers from April through June. This species typically occurs in southern mixed chaparral and southern maritime chaparral and is threatened by development, urbanization, and gravel mining. Approximately 57 individuals were observed in the western portion of the PSA. Potential habitat for summer holly occurs between structures 103 and 104, where surveys could not be conducted due to non-SDG&E active construction.

3.5.13 Wart-Stemmed Ceanothus

Wart-stemmed ceanothus, a CRPR 2B.2 and a SDG&E NCCP covered species, is a perennial evergreen shrub in the buckthorn family (Rhamnaceae) that flowers from December through May. This species occurs in coastal chaparral and is threatened by development. This species is found in extensive stands throughout the western half of the PSA. Potential habitat for wart-stemmed ceanothus occurs between structures 103 and 104, where surveys could not be conducted due to non-SDG&E active construction.

3.5.14 Western Dichondra

Western dichondra, a CRPR 4.2 species, is a prostrate, perennial, rhizomatous herb in the night shade family (Convolvulaceae) that flowers from January through July. This species typically grows at the base of shrubs in southern mixed chaparral and Diegan coastal sage scrub and is threatened by urbanization. Approximately 200 individuals were detected within the western portion of the PSA.

3.6 SPECIAL-STATUS WILDLIFE

Based on the literature review and field surveys conducted for the Proposed Project, special-status wildlife species documented from within 5-miles of the PSA were evaluated for their potential to occur. The probability of occurrence, presence, or absence of each of these species within the study area is detailed in Appendix D Special-Status Plant and Wildlife Species Known or with Potential to Occur in the Survey Area. Species that were observed or found to have a high potential to occur are described below. These species include coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgultea*), coastal California gnatcatcher (*Polioptila californica californica*), coastal whiptail (*Aspidoscelis tigris stehnegeri*, Cooper's hawk (*Accipiter cooperi*), Coronado skink (*Plestiodon skiltonianus interparietalis*), least Bell's vireo (*Vireo bellii pusillus*), Northwestern San Diego pocket mouse (*Chaetodipus fallax*), orangethroat whiptail (*Aspidoscelis hyperythra*), red diamond (*Crotalus ruber*), San Diego desert woodrat *(Neotoma lepida intermedia*), San Diego black-tailed jackrabbit (*Lepus californicus bennettii),* southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*), southwestern willow flycatcher (*Empidonax traillii extimus*), and yellow warbler (*Setophaga petechia*).

A habitat assessment for arroyo toad (*Anaxyrus californicus*) was conducted by ICF in the spring of 2016 to determine if suitable habitat for this species was present within the PSA. No suitable habitat was found and no protocol surveys for arroyo toad were recommended. The results of the habitat assessment are provided in Appendix E 2016 Field Habitat Assessment for Arroyo Toad (*Anaxyrus californicus*) for SDG&E TL 6975.

3.6.1 Federally-Listed Wildlife Species

Coastal California Gnatcatcher

The coastal California gnatcatcher is a small resident insectivorous species whose occurrence is strongly associated with sage scrub habitats found throughout southern California into northern Baja California, Mexico. Although coastal California gnatcatchers have a close association with sage scrub, this species has also been documented using coastal sage-chaparral scrub, chamise chaparral, and other habitat types (Campbell et al. 1998, Bontrager 1991). The USFWS listed this species as threatened in 1993. Critical habitat was designated for this species in 2000 and revised in 2007 (USFWS 2000b, USFWS 2007).

Historically, coastal California gnatcatchers range extended from southern Ventura County southward through Los Angeles, Orange, Riverside, San Bernardino, and San Diego counties, and into Baja California, Mexico, to approximately 30 degrees north latitude near El Rosario (Atwood 1990). Habitat destruction, fragmentation, and modification have led to this species' decline. Loss to agriculture and urban development were leading causes until 2003 when the Cedar Fire destroyed almost 28 percent of the remaining habitat that the USFWS believed to be suitable for the coastal California gnatcatcher (Bond and Bradley 2003). Again, in October 2007, several fires burned approximately 369,000 acres in San Diego County.

A total of 33 coastal California gnatcatcher territories were identified during the 2016 focused surveys (Appendix A, Figure 4: Vegetation and Special-Status Species). Gnatcatcher territory status and observations described in detail in Appendix B 2016 Coastal California Gnatcatcher, Least Bell's Vireo, and Southwestern Willow Flycatcher.

Least Bell's Vireo

The least Bell's vireo breeds in southern California and northwestern Baja California, with the majority of the population located in San Diego County. The least Bell's vireo is a small, migratory insectivore that prefers dense riparian vegetation for foraging and nesting. The CDFW listed the least Bell's vireo as endangered in 1980 and the USFWS followed listed this species as endangered in 1986. Critical habitat was designated for this subspecies in 1994 along the southwestern coastline of California below Santa Barbara (USFWS 1994).

Historically, least Bell's vireo was a common to locally abundant species found in lowland riparian habitats between northern California and coastal southern California. However, loss of

riparian habitats and brown-headed cowbird (*Molothrus ater*) parasitism led to a large population decline. When USFWS first listed the bird in 1986, the population was estimated to be just 300 pairs. The latest Five Year Review, dated September 2006, reported a 10-fold increase in population size since the time of its listing to an estimated 2,968 territories (USFWS 2006). The vireo population increase is largely attributed to cowbird control and habitat restoration and preservation (Kus 1999, Kus and Whitfield 2005).

Two least Bell's vireo transients were detected on June 13 and July 5, 2016 (Appendix A, Figure 4: Vegetation and Special-Status Species). For more information please see Appendix B 2016 Coastal California Gnatcatcher, Least Bell's Vireo, and Southwestern Willow Flycatcher.

Southwestern Willow Flycatcher

The southwestern willow flycatcher is one of four subspecies of willow flycatcher in the United States that breeds in southern California and was listed as an endangered species by CDFW in 1991 (CDFW 2017) and the USFWS in 1995 (USFWS 1995). Critical habitat for this species was revised by the USFWS in 2013 (USFWS 2013).

This small, insectivorous, migratory bird is usually found in dense riparian vegetation occurring along streams or other wetlands (Sogge et al. 2010). The structure of these habitats typically consists of a dense mid-story and understory and can also include a dense canopy (USFWS 1995). However, suitable vegetation is not uniformly dense and typically includes interspersed patches of open habitat. Typical plant species associated with their habitat include willow, mule fat, box-elder (*Acer negundo*), stinging nettle (*Urtica* spp.), Fremont cottonwood, tamarisk, and Russian olive (*Elaeagnus angustifolia*). Plant species composition does not seem as important as a dense twig structure and an abundance of live, green foliage (Sogge et al. 2010). Within the habitat structure parameters discussed above, southwestern willow flycatcher does demonstrate adaptability in that it can occupy riparian habitats composed of native broadleaf species, a mix of native and exotic species, or monotypic stands of exotics (Sogge et al. 2010).

No southwestern willow flycatchers were detected during the 2016 focused surveys. Suitable southwestern willow flycatcher habitat typically consists of a dense mid-story and understory and can also include a dense canopy (USFWS 1995). The PSA supports foraging and nesting habitat for southwestern willow flycatchers. Specifically, the survey area has a moderate potential to support breeding southwestern willow flycatcher.

3.6.2 State-Listed Wildlife Species

Two state-listed wildlife species, least Bell's vireo and southwestern willow flycatcher, are discussed in Section 4.5.1, Federally-Listed Wildlife Species.

Coronado Skink (*Plestiodon skiltonianus interparietalis*)

The Coronado skink is a CDFW SSC lizard that is typically found in the moister areas of coastal sage, chaparral, oak woodlands, pinyon-juniper, riparian woodlands, and pine forests (Jennings

and Hayes 1994). Its prey includes small invertebrates found in leaf litter or dense vegetation at the edges of rocks and logs. The Coronado skink is found along the coastal plain and Peninsular Ranges west of the deserts from approximately San Gorgonio Pass in Riverside County south to San Quentin, Mexico (Jennings and Hayes 1994).

3.6.3 Other Special-Status Wildlife Species

Coast Horned Lizard

Coast horned lizard is a CDFW SSC and NCCP covered species. It occurs from the Transverse Ranges in Kern, Los Angeles, Santa Barbara, and Ventura counties southward throughout the Peninsular Ranges of southern California to Baja California, Mexico, as far south as San Vicente. It is found in a wide variety of habitats, including coastal sage scrub, annual grasslands, chaparral, oak woodlands, riparian woodlands, and coniferous forests. It is perhaps most abundant in riparian and coastal sage scrub habitats on old alluvial fans of the southern California coastal plain. The primary threat to the continued existence of this species is habitat loss. Other threats include non-native ants, especially Argentine ants (*Linepithema humile*), and disturbances related to off-road vehicles.

Coast horned lizard has a high potential to occur within the PSA. The CNDDB lists four records of occurrence within 1 mile of the proposed work areas. In addition, the PSA contains habitat suitable to support this species in the form of coastal sage scrub, chaparral, oak, and riparian woodland communities.

Coast Patch-Nosed Snake

The coast patch-nosed snake is a CDFW SSC and NCCP covered species. The species occurs from the northern Carrizo Plain (San Luis Obispo County) south along the southern California coast to coastal northern Baja California. Elevation range is from sea level to 2,700 feet. Coast patch-nosed snakes occur in habitats with shrubby or bushy vegetation, including grasslands, coastal sagebrush, chaparral, and pinyon-juniper woodlands (Stebbins 2003).

Coast patch-nosed snake has a moderate potential to occur within the PSA. The CNDDB lists one record of occurrence within 1 mile of the proposed work areas. In addition, the PSA contains habitat to support this species in the form of coastal sage scrub, chaparral, and non-native grassland communities.

Coastal Whiptail

The coastal whiptail, also known as the San Diegan tiger whiptail, is a CDFW SSC. The coastal whiptail is found in coastal southern California, mostly west of the Peninsular Ranges and south of the Transverse Ranges, and north into Ventura County. It has been nearly extirpated from the Los Angeles basin and in the San Diego region. The elevation range extends from near sea level to around 7,000 feet (California Herps 2017). Coastal whiptails are found in a variety of

habitats, primarily hot and dry open areas with sparse foliage, such as chaparral, woodland, and riparian areas (California Herps 2017).

Coast whiptail has a high potential to occur within the PSA. The CNDDB lists five records of occurrence within 1 mile of the proposed work areas. In addition, the PSA contains habitat to support this species in the form of coastal sage scrub, chaparral, oak, and riparian woodland communities.

Cooper's Hawk

Cooper's hawk is a CDFW watch list and a SDG&E NCCP-covered species. Cooper's hawks are common year-round residents throughout North America. They are found throughout San Diego County wherever there are abundant trees and are most abundant in foothills and canyons as well as in urban areas (Unitt 2004). They are a medium-sized hawk, blue-gray in color with reddish bars on its underparts. Cooper's hawk was incidentally observed within 1 mile of the PSA during site visits.

Coronado Skink

Coronado skink is a CDFW watch list and a SDG&E NCCP-covered species. It is a medium-sized secretive lizard that is typically found in the moister areas of coastal sage, chaparral, oak woodlands, pinyon-juniper, riparian woodlands, and pine forests (Jennings and Hayes 1994). Its prey includes small invertebrates found in leaf litter or dense vegetation at the edges of rocks and logs. The Coronado skink is found along the coastal plain and Peninsular Ranges west of the deserts from approximately San Gorgonio Pass in Riverside County south to San Quentin, Mexico (Jennings and Hayes 1994).

Northwestern San Diego Pocket Mouse

Northwestern San Diego pocket mouse is a CDFW SSC. It ranges through sandy, herbaceous areas throughout southwestern California. It occurs in a variety of habitat including coastal scrub, chaparral, desert scrub, pinyon-juniper woodland, and grasslands from sea level to 4,500 feet. Northwestern San Diego pocket mouse is a small, nocturnal mammal and has an average home range of 0.9 acre for males and 0.62 acre for females.

Northwestern San Diego pocket mouse has a high potential to occur within the PSA. The CNDDB list one occurrence of northwestern San Diego pocket mouse within 1 mile of the proposed work area. In addition, the PSA contains habitat suitable to support this species in the form of coastal sage scrub, chaparral, and non-native grasslands.

Orange-Throated Whiptail

Orange-throated whiptail is a CDFW watch list and a SDG&E NCCP covered species. Orange-throated whiptail occurs in semi-arid, brushy areas typically with loose soil and rocks, including washes, stream sides, rocky hillsides, coastal sage scrub, and chaparral. This species can also occur in weedy, disturbed areas adjacent to these habitats.

Orange-throated whiptail has a high potential to occur within the PSA. The CNDDB lists two occurrences of orange-throated whiptail within 1 mile of the proposed work area. In addition, the PSA contains high quality habitat suitable to support this species in the form of coastal sage scrub and chaparral.

Red-Diamond Rattlesnake

Red-diamond rattlesnake is a CDFW SSC SDG&E NCCP covered species. The red diamond rattlesnake is a large, heavy-bodied rattlesnake that has a wide tolerance for varying environments and can be found in a variety of vegetation types, but is most commonly seen in areas with heavy brush and cacti, rocks, or boulders (Stebbins 2003). The known range extends from San Bernardino County along the coastal and desert slopes southward to Baja California. Adult red diamond rattlesnakes eat mostly squirrels and rabbits, but lizards, specifically the western whiptail, are a significant food source for juveniles (Jennings and Hayes 1994). Urban development and the trend towards planting orchards on steeper rocky hillsides have significantly decreased the amount of appropriate habitat for this species (Jennings and Hayes 1994).

San Diego Black-Tailed Jackrabbit

The San Diego black-tailed jackrabbit is a CDFW SSC and SDG&E NCCP covered species. The San Diego black-tailed jackrabbit ranges from the southern slopes of Transverse Ranges into Baja California, Mexico. It has been nearly extirpated from the Los Angeles basin and in the San Diego region. The elevation range extends from near sea level to around 5,000 feet). San Diego black-tailed jackrabbit are found in a variety of habitats, including coastal sage scrub, chaparral, riparian, oak woodlands, and rocky areas; primarily in areas with habitats with sandy or gravel soils, and often associated with washes. They are not found in areas where the habitat has been fragmented by roads and development.

San Diego black-tailed jackrabbit has a high potential to occur within the PSA. The CNDDB lists one occurrence of San Diego black-tailed jackrabbit within 1 mile of the proposed work areas. In addition, the PSA contains habitat suitable to support this species in the form of coastal sage scrub, chaparral, oak and riparian woodland communities.

San Diego Woodrat

The San Diego desert woodrat is a CDFW SSC. The desert woodrat as a whole is distributed from central California southward well into Baja California, Mexico, and across much of the Great Basin as far north as eastern Oregon and southwestern Idaho. The San Diego subspecies is found along the coast of California from San Luis Obispo (San Luis Obispo County) southward and inland to San Fernando (Los Angeles County), the western foothills of the San Bernardino Mountains (San Bernardino County), and Julian (San Diego County). Its distribution continues southward in Baja California, Mexico, at least to a point 20 miles east of Ensenada.

It is a medium-sized native rat locally common in a variety of sunny shrub habitats, frequently in rocky and/or steep terrain and upper drainages. This mainly nocturnal vegetarian often builds its dens low in cactus or rock crevices, but will use other sites as needed. Habitats for this subspecies are dry and/or sunny shrublands, especially (but not necessarily) areas with cactus and abundant rocks and crevices. Sage scrub communities are frequently occupied, but other communities are also used as suitable microhabitats when available.

San Diego woodrat has a high potential to occur within the PSA. The CNDDB lists two occurrences of San Diego woodrat within 1 mile of the proposed work areas. In addition, the PSA contains habitat suitable to support this species in the form of coastal sage scrub, chaparral, oak and riparian woodland communities.

Southern California Rufous-Crowned Sparrow

Southern California rufous-crowned sparrow is a CDFW watch list and a SDG&E NCCP-covered species. Southern California rufous-crowned sparrow inhabits mixed chaparral and coastal sage scrub. In California, its range extends southward from Mendocino and Tehama counties; this species is most numerous in the western part of this range (Zeiner et al. 1990). Southern California rufous-crowned sparrows breed and forage on dry grass and/or forbs on hillsides with scattered shrubs and rock outcrops. Nests are usually made on the ground, at the base of grass tussock or shrubs. It is a year-round resident and diurnally active, eating mostly insects and spiders during the breeding season and seeds, grass, and forb shoots throughout the year. It breeds from mid-March to mid-June with a peak in May. In Southern California coastal sage scrub, the average sized territory is about 2 acres (Zeiner et al. 1990).

Southern California rufous-crowned sparrow was observed during the 2016 surveys (Appendix A, Figure 4: Vegetation and Special-Status Species).

Yellow warbler

Yellow warbler is a CDFW SSC. They are associated with mature riparian woodland that include cottonwood, willows, alders, and ash trees. Yellow warblers are a common breeding summer resident throughout San Diego County. Yellow warblers are small, yellow songbirds with medium-length tails and rounded heads with a thin, straight bill. Males have vertical reddish streaks on their breast.

Yellow warbler was observed during the 2016 surveys (Appendix A, Figure 4: Vegetation and Special-Status Species).

Two-Striped Garter Snake

The two striped garter snake is a CDFW SSC. Two-striped garter snakes occur throughout the South Coast and Peninsular Ranges west of the San Joaquin Valley from near Salinas south to La Presa, Baja California, Mexico. The species' elevation range extends from sea level to around 8,000 feet. The two-striped garter snake is a highly aquatic snake that is rarely found far from

water, though terrestrial habitat and rodent burrows can be an important habitat component for the species. Two-striped garter snakes inhabit perennial and intermittent streams with rocky beds bordered by willow thickets and other dense vegetation. They may also inhabit stock ponds or other artificially created aquatic habitats. Two-striped garter snakes forage primarily on fish, fish eggs, and tadpoles (Thompson et al. 2016).

Two-striped garter snake has a moderate potential to occur within the PSA. Also, the CNDDB lists two records of occurrence within 1 mile of the proposed work areas. The PSA contains habitat suitable to support this species in the form of fresh water from San Marcos Creek.

3.7 JURISDICTIONAL DELINEATION

A total of 157 features within the PSA were identified and evaluated for potential state and federal jurisdiction pursuant to the regulations described above in Section 2.5. These features generally fell into one of seven categories:

- Four categories that are considered potentially jurisdictional: wetlands and riparian habitats, ephemeral streams, intermittent streams, perennial streams; and
- Three categories that are considered non-jurisdictional: swales, erosional features, and concrete v-ditches constructed in uplands as best management practices (BMPs).

Of the 157 features evaluated, 100 were considered to be potentially state and federally jurisdictional. No existing or proposed poles are located within an aquatic feature. Three existing poles are located within 25 feet of a jurisdictional feature: 7, 72, and 71. In addition, a number of jurisdictional aquatic features either cross potential access road, or are within proposed staging yards. A full detailed description of each aquatic resource can be found in Appendix C Jurisdictional Delineation Report for the SDG&E TL 6975 Escondido to San Marcos New 69 kV Project.

3.7.1 Wetlands/Riparian Vegetation

Wetlands and/or riparian vegetation identified within PSA were predominantly associated with intermittent and perennial streams and were dominated by black, red, and arroyo willows (*Salix* spp.*)*, mulefat (*Baccharis salicifolia*), cattail (*Typha* sp.), and bulrush (*Schoenoplectus* sp.). Some wetlands were inundated at the time of the site visit.

CDFW riparian areas included the wetland features above as well as patches of mule fat, tamarisk (*Tamarix* sp.), and/or coast live oaks (*Quercus agrifolia*) which occurred within ephemeral streams.

3.7.2 Streams

A total of 59 ephemeral streams, four intermittent streams, and 12 perennial streams were identified within the PSA. These features had clear bed and bank, as well as multiple OHWM

indicators. OHWM indicators commonly included: shelving, changes in particle size, water staining, changes in vegetation cover/species, and changes in slope from the active floodplain to the low terrace. The ephemeral streams in the PSA were variable in size and ranged from one to 15 feet wide measured from bank-to-bank. The majority of the intermittent streams identified throughout the project alignment were associated with tributaries to San Marcos Creek and/or Escondido Creek. These features often supported riparian vegetation and wetlands and were associated with National Hydrography Dataset (NHD) streamlines. Intermittent streams were typically identified in conjunction with perennial streams and were variable in size, ranging from nine to 92 feet measured from bank-to-bank. Perennial streams were associated with San Marcos Creek and associated unnamed tributaries. Each perennial stream had contained flowing waters, evidence of inundation, and always supported wetlands and riparian vegetation.

3.8 WILDLIFE MIGRATION CORRIDORS

Wildlife migration corridors are areas that connect suitable habitat in a region otherwise fragmented by rugged terrain, changes in vegetation, or human disturbance. Natural features (e.g., canyon drainages, ridgelines, or areas with vegetation cover) provide corridors for wildlife travel. Wildlife corridors are important because they provide access to mates, food, and water; allow the dispersal of individuals away from high-population-density areas; and facilitate genetic diversity. The CEQA Guidelines require that project proponents disclose impacts to wildlife corridors and mitigate for significant impacts to wildlife corridors.

Disturbance to wildlife corridors such as human disturbance and development can cause harm to migrating species, cause species to exceed the population thresholds, and/or prevent healthy gene flow between populations. This section discusses the applicable wildlife corridors that are present or potentially present within the PSA.

3.8.1 Terrestrial Species

Terrestrial wildlife species migrate through both upland and drainage areas, depending on the species. Species that need protective cover from predators (e.g., mammals, reptiles, and smaller avian species) tend to migrate along natural drainages and riparian corridors that have a high vegetative cover. These areas also serve as an important source of food resources (e.g., insects and seeds) for these species. There are numerous natural drainages and riparian corridors in the PSA, including multiple unnamed tributaries to San Marcos Creek and/or Escondido Creek. These drainages may be used as migration corridors by a variety of species. Predator species, such as bobcat (*Lynx rufus*) or mountain lion (*Puma concolor*), require larger portions of intact habitat, including interconnected upland and riparian systems for migration.

The Proposed Project is located in the Pacific Flyway, a major north-south avian migratory corridor that extends along the West Coast from Alaska to Patagonia, and provides suitable foraging habitat for many resident and migratory avian species. The Pacific Flyway links breeding grounds in the north to more southerly wintering areas and, therefore, is utilized by an abundance of bird species during migration.

Aquatic Species

Aquatic species are also known to migrate within wetland and drainages. Within the PSA, intermittent and perennial drainages serve as potential linkages for aquatic species. Tributaries to San Marcos Creek and/or Escondido Creek could provide wildlife connectivity for aquatic species while water is flowing within those drainages.

3.9 USFWS CRITICAL HABITAT AREAS

The USFWS designates critical habitat for endangered and threatened species under the FESA (16 USC 1533 (a)(3)). Critical habitat is designated for the survival and recovery of federally listed endangered and/or threatened species. Protected habitat includes areas for foraging, breeding, roosting, shelter, and movement or migration. The USFWS has designated critical habitat for the coastal California gnatcatcher, San Diego fairy shrimp (*Branchinecta sandiegonensis*), spreading navarretia, and thread-leaved brodiaea in areas within 1-mile of the Proposed Project.

Portions of the Proposed Project are located within critical habitat designated for coastal California gnatcatcher (Appendix A, Figure 3: Preserves and Critical Habitat). Approximately 151 acres of the PSA is within Critical Habitat for coastal California gnatcatcher.

4. IMPACTS

4.1 IMPACT SUMMARY

The following discussion describes the Proposed Project's potential to affect special-status biological resources during construction, and operation and maintenance of a twelve-mile-long overhead power line along an existing transmission corridor; modifications to two existing substation; and use of the 10 staging yards, 22 stringing sites, 48 temporary guard structures, and extension of an existing access road.

SDG&E would operate in compliance with all state and federal laws, regulations, and permit conditions. This includes compliance with the CWA, Porter-Cologne Water Quality Control Act, federal ESA, MBTA, California ESA, CEQA, and requirements and protective measures from CDFW and USFWS. In addition, SDG&E would implement the SDG&E Subregional NCCP, which was established according to the federal ESA and California ESA and the NCCP Act. Compliance also includes following the guidelines outlined in Section 7.1, Operational Protocols, and Section 7.2, Habitat Enhancement Measures, of the SDG&E Subregional NCCP. The Operational Protocols (Appendix F SDG&E Natural Communities Conservation Plan Operational Protocols) are designed to provide avoidance and minimize impacts to all sensitive resources, regardless of whether the species is an NCCP-covered species.

Impacts that would result in irreversible loss of habitat or individuals are considered permanent; impacts that would end with the cessation of construction are considered temporary. Direct and indirect impacts may be either permanent or temporary. These impact categories are defined below.

Direct: Direct impacts are caused by the project and occur at the same time and place as the project. Any alteration, disturbance, or destruction of biological resources that would result from project-related activities is considered a direct impact. Direct impacts would include direct losses to native habitats, potential jurisdictional waters, wetlands, and special status species; and diverting natural surface water flows. Direct impacts could include injury, death, and/or harassment of listed and/or special status species. Direct impacts could also include the destruction of habitats necessary for species breeding, feeding, or sheltering. Direct impacts to plants can include crushing of adult plants, bulbs, or seeds.

Indirect: As a result of project-related activities, biological resources may also be affected in a manner that is not direct. Indirect impacts may occur later in time or at a place that is farther removed in distance from the project than direct impacts, but indirect impacts are still reasonably foreseeable and attributable to project-related activities. Examples include habitat fragmentation; elevated noise, dust, and lighting levels; changes in hydrology, runoff, and sedimentation; decreased water quality; soil compaction; increased human activity; and the introduction of invasive wildlife (domestic cats and dogs) and plants.

Permanent: All impacts that result in the irreversible removal of biological resources are considered permanent. For the purposes of this project, impacts are irreversible if filling activities result in an elevation (gradient) change or an impervious surface. Examples include constructing a building or permanent road on an area containing biological resources.

Temporary: Any impacts considered to have reversible effects on biological resources can be viewed as temporary. For the purpose of this project, if preconstruction contours are maintained and the area can be revegetated in place, then the impact is considered temporary. Examples include the generation of fugitive dust during construction, or removing vegetation for underground pipeline trenching activities and allowing the natural vegetation to recolonize the impact area.

4.2 Construction Impacts

Construction of the Proposed Project would result in temporary disturbance and/or permanent loss of sensitive vegetation communities. In addition, temporary disturbance and/or permanent loss could occur to special-status plants and special-status wildlife. Table 4: Potential Impacts Resulting from the Proposed Project, summarizes the permanent and temporary impacts associated with the Proposed Project.

Table 4: Potential Impacts Resulting from the Proposed Project

Impact Type	Approximate Area of Impact (acres)
Permanent	2. 0
Temporary	79. 4

4.2.1 Permanent Impacts

Permanent impacts to biological resources would result from the installation of permanent features which includes 35 new direct bury or concrete-pier foundation steel poles and their associated work areas outside of areas where permanent work pads are already maintained for the existing power lines. The Proposed Project would be located predominantly within existing utility corridors and franchise areas that currently feature permanent work pads and access roads; an existing access road near Meadowlark Junction would be extended. The Proposed Project would require some vegetation clearing associated with access during construction, and operation and maintenance of the facilities. Work areas utilized solely for construction are often simply cleared of vegetation, and grading is only undertaken where relatively flat areas are not already present.

Existing wood poles would be completely removed and the holes backfilled with soils from the pole replacement. Soil would not be taken from the surrounding areas to fill the holes. If additional backfill material is required, clean, decomposed granite would be used to backfill the old pole holes. Excess from the new holes would be placed on top of the decomposed granite. In some cases, existing poles would cut at ground level, and the remainder of the pole would be

left in place to avoid impacts on sensitive resources. In general, the new 69 kV steel poles (direct bury and foundation) would range in height from 35 feet to 125 feet above ground level. All poles would be constructed to current SDG&E standards, including design standards for avian protection. Direct-buried steel poles are light- and heavy-duty weathering steel poles that are secured using a concrete backfill. The poles would be inserted into the ground to a depth of approximately 7 to 16 feet, as necessary for installation. Light-duty steel poles would be used at all locations; it is not anticipated that heavy-duty steel poles would be needed for the Proposed Project. Concrete-pier foundation poles are engineered steel poles that are anchor bolted to a reinforced concrete foundation. Foundation construction would require an approximate 40-foot work area to provide a safe and adequate temporary workspace, as well as a 35-foot by 50-foot work area located in the access road. Eight concrete-pier foundation poles would be installed; the concrete base would measure approximately 10 feet in diameter, and approximately 2 vertical feet of the base would be exposed above ground level.

4.2.2 Temporary Impacts

Temporary impacts include short-term impacts occurring during removal of existing wooden poles, installation of replacement new steel poles, and work at stringing sites and staging yards. Temporary work areas would be required for storage and staging of construction equipment and materials. All temporary work areas would be accessed by construction equipment using existing access roads, with the exception of an extension of an existing access road along Meadowlark Junction, and the addition of four new spur roads. Temporary work areas may also be accessed by construction personnel using footpaths. The precise location, configuration, and number of temporary work areas may change as necessary at the time of construction due to site conditions and construction requirements in order to provide a safe and adequate work area for construction workers, and to avoid and minimize impacts to sensitive resources. To accommodate construction equipment and activities during the installation and removal of transmission poles and structures and while transferring the power line conductors and re-energizing, temporary work areas would be cleared and graded at each location. The work areas for each type of pole foundation would generally be centered on the existing pole location. However, actual work areas would vary in shape and size, and would be determined based on site conditions and access requirements in order to provide a safe and adequate work area for construction workers. Based on new pole positions for the Proposed Project, some trenching would be involved to intercept existing underground conduit and reroute to the new pole. Trenching activities would typically be performed within a 10- to 30-foot radius of the poles. Trenching operations would be staged in intervals so that only a maximum of 500 feet of trench (or as allowed by permit requirements) would be left open at any one time. The typical trench dimensions for installation of each duct bank would be 3 to 6 feet deep and 2 to 7 feet wide, depending on the duct bank configuration. Depths may vary depending on soil stability and the presence of existing substructures. If rock is encountered during excavation, a hydraulic rock drilling and splitting procedure (rock-splitting) may potentially be used to minimize trenching or drilling time, depending on site-specific conditions.

The Proposed Project includes approximately 10 temporary construction staging yards resulting in a total area of approximately 60 acres. The staging yards may be used as refueling areas for vehicles, helicopters, and construction equipment; as equipment wash stations; for pole assemblage; for storage of material and equipment, storage containers, construction trailers, and portable restrooms; and for parking and lighting. These areas may include generator use for temporary power in construction trailers and incidental landing areas for helicopters.

Construction access would use existing access roads and public roadways. No new access roads are proposed, with the exception of four spur roads and an existing access road near Meadowlark Junction would be extended. Most work areas are accessible by vehicle on unpaved SDG&E-maintained access roads or by overland travel. To provide crews and equipment access to the associated poles, existing access roads may require smoothing or refreshing, and/or vegetation clearing may be necessary to maintain some existing access roads and to re-establish unmaintained access roads. In addition, contractors may require additional turn around and vehicle passing locations to safely operate construction vehicles and equipment. The on-site monitor would assist crews in locating vehicle turn around and passing areas that avoid and minimize impacts on sensitive resources. Helicopters would be utilized as a construction tool for specific activities including (but not necessarily limited to) stringing of overhead conductor, installation or removal of structures, and transportation of equipment associated with the Proposed Project.

Approximately 22 stringing sites would be established to provide a safe working space for the installation and removal of overhead conductors and underground cables. These stringing sites would generally be located adjacent to designated 69 kV poles. The stringing sites would be approximately 20 feet long, 125 feet wide, and located directly in line or offset with the conductor. As a result, the stringing sites would require approximately 0.80 acres of land. Grading of the stringing sites is not expected to be necessary.

The onsite biological monitor, as appropriate, would assist construction crews in locating pole work areas to minimize impacts. It is anticipated that the Proposed Project would require brush removal and trimming during construction activities in order to establish work areas for pole installation and stringing activities and re-establish foot paths/overland paths. Vegetation would be cleared using a mower, weed whacker, shovel, rake, lopper, or chainsaw; placed in steel bins; and disposed of at appropriate facilities.

4.2.3 Operations and Maintenance Impacts

Operation and maintenance of the Proposed Project would utilize existing work areas and roads, as well as limited additional permanent work areas that would remain following completion of construction activities. Following construction of the Proposed Project, SDG&E would continue to conduct these activities to be consistent with its standard operating procedures, including the Subregional NCCP. No change in SDG&E's operation and maintenance protocols and procedures is anticipated or included as part of the Proposed Project.

SDG&E would continue to regularly inspect, maintain, and repair TL 6975 pending agency review of the Proposed Project and following completion of Proposed Project construction. These activities involve both routine preventive maintenance and emergency procedures to maintain service continuity. SDG&E performs aerial and ground inspections of Proposed Project facilities and patrols above-ground components annually. Inspection for corrosion, equipment misalignment, loose fittings, and other common mechanical problems is performed at least every 3 years (per CPUC G.O. 165) for power lines.

The existing power line alignment requires some maintenance activities that would no longer be needed due to the installation of steel poles and reconductoring the existing de-energized line. The existing wood poles require intrusive inspections every 10 years that would no longer be necessary with the new steel poles. The de-energized power line requires insulator washing four times a year. This activity would not be required once the power line was re-energized. This would result in a decrease in heavy truck miles from 91 to 84 miles per month. Otherwise, the de-energized lines on Segment 3 are currently inspected and maintained the same way an energized line would be; therefore, when the line is reconductored it would not require additional maintenance activities, or additional trips to the Proposed Project. The new structures in Segment 2 would require more maintenance. Due to the additional structures and hardware, Segment 2 would require more inspections, and more items that could require repair or replacement, which would result in more trips to the Segment. The miles traveled by light duty trucks per month would increase from 156 to 168 miles, primarily due to the additional inspections required. Based on the estimated maintenance the Proposed Project would require, overall miles traveled per month would be 252 miles per month, which is relatively similar to the current 247 miles traveled per month. Generally, maintenance activities would increase slightly with the implementation of the Proposed Project.

Significance Criteria

According to Section 15002(g) of the State CEQA Guidelines, "a significant effect on the environment is defined as a substantial adverse change in the physical conditions which exist in the area affected by the Proposed Project." As stated in Section 15064(b) of the guidelines, the significance of an activity may vary with the setting. The potential significance of Proposed Project-related impacts on biological resources were evaluated for the applicable criteria from Appendix G of the State CEQA Guidelines, as discussed in the following sections.

4.3 VEGETATION COMMUNITIES

As summarized in Table 5: Potential Impacts on Vegetation Communities, the Proposed Project could result in temporary and permanent impacts on sensitive natural communities.

4.3.1 Direct Impacts

Permanent direct impacts would result from the permanent placement of steel poles within disturbed habitat, urban/developed habitat, orchard vineyard, Southern maritime chaparral, and Diegan coastal sage scrub. It is important to note that Segments 1 and 3 are existing power lines with existing facilities (i.e., poles) and that all old facilities would be completely removed where feasible when they are replaced. Temporary, direct impacts would result from grading, brush removal and vegetation trimming required during construction for pole removal, installation, staging yards, stringing sites, laydown areas, footpaths, and guard structures. No new access roads are proposed; however an extension would be required to an existing access road at Meadowlark Junction.

4.3.2 Indirect Impacts

Indirect impacts on vegetation communities may include the increased exposure to exotic plant seed. Non-native exotic plant species are opportunistic and often occupy disturbed soils such as those within transmission line corridors and areas of exposed bare ground that may occur within the disturbance area. Wildfires caused by downed transmission lines are rare but may occur. Exotic species often frequent areas adjacent to and within burn areas following a wildfire. Once introduced, these exotic plant species often outcompete natives for resources, resulting in a reduction in growth, future dispersal, and recruitment of native species, and the eventual degradation of the vegetation community. Erosion and storm water contaminant runoff also may degrade adjacent vegetation communities. Finally, dust deposition on leaf surfaces may result from construction traffic on dirt roads or lots, thus reducing the photosynthetic vigor of plants comprising sensitive natural communities.

Consistent with the SDG&E Subregional NCCP, the Proposed Project has been designed to avoid sensitive habitat areas when possible, including not placing new poles in drainage areas, using existing access roads where feasible, and placing any new facilities, staging areas, stringing sites, guard structures, and helicopter landing zones outside sensitive habitats when feasible. Where avoidance of sensitive habitat areas is not possible, or where sensitive habitat areas exist adjacent to the Proposed Project work areas, implementation of the measures in Sections 7.1 and 7.2 of the SDG&E Subregional NCCP would further minimize impacts in sensitive natural communities. Specifically, SDG&E would demarcate the boundaries of work limits and sensitive habitats and resources that will be avoided in accordance with Operational Protocol #14. Operational Protocols #1 and #39 would reduce fugitive dust resulting from construction vehicles by requiring that vehicles drive at speeds of 15 miles per hour or less, and that regular watering occurs, respectively. Operational Protocol #20 (as well as state and federal regulations) require SDG&E to use BMPs to minimize erosion and sedimentation effects of stormwater. Section 7.2 of the NCCP would be implemented to enhance habitat and minimize invasive species establishment and spread.

Significance Determination: As a result of implementation of the above measures, permanent and temporary direct and indirect impacts on sensitive natural communities would be *less than significant.*

Table 5: Potential Impacts on Vegetation Communities

Oberbauer Code	Vegetation Community Name	Approximate Acreage in PSA	Temporary Impact	Permanent Impacts
11300	Disturbed Habitat	124.0	22.0	0.7
12000	Urban/Developed	247.9	56.1	0.3
18100	Orchard/Vineyard	10.7	0.2	0.01
18300	Intensive Agriculture	0.8	---	---
64140	Fresh Water	0.2	---	---
79000	Non-native Woodland	1.0	---	---
79100	Eucalyptus Woodland	3.6	0.0	---
Total Impacts on Non-Sensitive Communities			**78.1**	**1.0**
32500	Diegan Coastal Sage Scrub*	122.8	0.7	0.8
37G00	Coastal Sage-Chaparral Transition*	125.8	---	---
37C30	Southern Maritime Chaparral*	21.8	0.3	0.3
42200	Non-native Grassland*	1.0	0.01	**---**
52400	Emergent Wetlands*	0.6	---	**---**
52410	Coastal and Valley Freshwater Marsh*	0.2	---	**---**
61300	Southern Riparian Forest*	4.6	0.01	---
63320	Southern Willow Scrub*	0.4	---	**---**
63310	Mule Fat Scrub*	0.1	---	**---**
71160	Coast Live Oak Woodland*	6.2	---	**---**
Total Impacts on Sensitive Natural Communities			**1.1**	**1.1**
Grand Total			**79.4**	**2.0**
* Indicates a sensitive natural community				

4.4 SPECIAL-STATUS PLANT SPECIES

Thirteen special-status species were detected within the PSA: ashy spike-moss, California adolphia, golden-rayed pentachaeta, Nuttall's scrub oak, Orcutt's brodiaea, Palmer's grapplinghook, San Diego marsh-elder, San Diego sagewort, San Diego sunflower, small-flowered microseris, summer holly, wart-stemmed ceanothus, and western dichondra. Special-status plant species locations are presented in Appendix A, Figure 4: Vegetation and Special-Status Species.

4.4.1 Direct Impacts

The Proposed Project would result in approximately 0.38 acre of permanent direct impacts on Nuttall's scrub oak (CRPR List 1B.1) and wart-stemmed ceanothus (CRPR List 2B.2). The Proposed Project has the potential to directly impact wart-stemmed ceanothus and Nuttall's scrub oak or other special-status plants that occur within temporary construction areas by the temporary removal of vegetation by unauthorized collection or trampling by construction personnel.

Table 6: Impacts on Special-Status Plant Species lists the total area of impacted special-status plant species within the PSA and occupied areas that occur within the temporary and permanent impact areas. The anticipated impact area, expressed as a percentage of the mapped occurrence area, is also provided.

Table 6: Impacts on Special-Status Plant Species

Species	CRPR Listing Status	Occupied Area Mapped in the PSA (acres)	Area of Temporary Impact (acre) (percent of total)	Area of Permanent Impact (acre) (percent of total)	Area of Total Impacts (acre) (percent of total)
Nuttall's scrub oak	1B.1	26.0	0.06 (0.2 %)	0.11 (0.4 %)	0.17 (0.7%)
Wart-stemmed ceanothus	2B.2	514.7	0.68 (<0.1%)	0.27 (0.1 %)	0.95 (0.1%)

4.4.2 Indirect Impacts

Temporary indirect impacts on special-status plant species could result from construction-related, dust, sedimentation, and erosion, which have the potential to alter site conditions, degrading the quality of the habitat.

Under the County of San Diego's Guidelines for Determining Significance for Biological Resources (County of San Diego 2010), any impacts on County List A or B plant species—which include all CRPR List 1B and 2B species observed within the PSA—are considered to be potentially significant. According to the County's guidelines, if it is determined that a given project would not have a substantial adverse effect on the local long-term survival of a special-status plant species, and if less than 5 percent of that species and its habitat would be impacted, impacts on these CRPR List 1B and 2B special-status plant species may be considered to be less than significant. Using this metric, impacts on Nuttall's scrub oak and wart-stemmed ceanothus would not be significant because the area of impacts on these species would not exceed 5 percent of the total area mapped within the PSA.

According to the County of San Diego's Guidelines for Determining Significance for Biological Resources, impacts on the County's List C or D species—which include CRPR List 3 and 4 species observed within the PSA—would be considered significant if the Proposed Project impacts the local long-term survival of those species. CRPR List 3 and 4 species with the PSA were generally observed at the landscape level (i.e., hundreds or thousands of individuals) within the PSA and are not located within any temporary impact areas. Only indirect impacts are expected for these individuals. As a result, it can be reasonably concluded that there would be no threat to the long-term survival of these CRPR List 3 and 4 species as a result of the Proposed Project.

To minimize impacts on special-status plants from construction of the Proposed Project, SDG&E will use a biological monitor in accordance with Operational Protocol #13, who will flag occurrences of special-status plants outside of impact areas for avoidance in accordance with Operational Protocol #14. The biological monitor will also check that flagged areas of these special-status plants have been avoided and will document that compliance. SDG&E will also

implement Operational Protocol #39, which will result in regular watering of construction areas to minimize fugitive dust. Fugitive dust will also be controlled by limiting onsite vehicle speeds to 15 miles per hour in accordance with Operational Protocol #39. Temporary impacts potentially resulting from erosion and sedimentation will be minimized through implementation of Operational Protocols #16, #19, and #20, which require, among other things, the implementation of BMPs to manage stormwater run-off. SDG&E will reduce impacts associated with the spread of noxious weeds in the construction areas by conforming to the habitat reclamation procedures outlined in Section 7.2 of the NCCP.

As a result of the measures in Section 7.2 of the NCCP and the NCCP Operational Protocols listed above, it can be reasonably concluded that there would be no threat to the long-term survival of CRPR List 3 and 4 special-status plants within the PSA as a result of the Proposed Project. Furthermore, the Proposed Project would not result in a substantial adverse effect on the local long-term survival of a CRPR List 1 and 2 special-status plant species, nor would more than 5 percent of one of these species or its habitat be impacted.

4.5 SPECIAL-STATUS WILDLIFE SPECIES

4.5.1 Special-Status Reptile Species

Six special-status reptile species have a high potential to occur within the PSA: coastal whiptail, coast horned lizard, coast patched-nosed snake, Coronado skink, orange-throated whiptail, and red-diamond rattlesnake.

Direct Impacts

Permanent direct impacts on the habitat of these six reptile species are anticipated as a result of the permanent removal of upland habitat, such as Diegan coastal sage scrub and nonnative grassland, due to the grading, trenching, and installation of the permanent placement of steel poles and structure foundations. Permanent direct impacts could occur to individuals as a result of vehicular strikes or excavation equipment strikes. Temporary direct impacts may result from the temporary removal of upland habitat, such as Diegan coastal sage scrub and nonnative grassland, due to grading and trenching for the installation of the poles.

Indirect Impacts

Temporary indirect impacts could occur due to construction noise and ground vibration, as animals may be deterred from inhabiting or foraging in areas near such activities. Additional indirect impacts could occur from construction-related dust, sedimentation, and erosion, which have the potential to alter site conditions and the use of the site by reptile species. In addition, temporary impacts associated with nighttime construction activities may result in temporary avoidance of construction areas due to lighting. Furthermore, the Proposed Project may result in impacts on these species if noxious weed seeds are spread within occupied habitats during construction; if allowed to establish and spread, these weeds could alter the habitat for these species.

Avoidance and Minimization Measures

To ensure that special-status reptiles are not significantly impacted as a result of the Proposed Project, SDG&E will implement Operational Protocol #1, which requires construction vehicles to maintain a 15 mile per hour (mph) speed limit, reducing the potential for collisions, as well as Operational Protocol #11, in which all employees receive environmental training on special-status species potentially occurring with the Proposed Project. Operational Protocol #38 requires that all steep-walled trenches be inspected twice daily to protect against wildlife entrapment. If wildlife are located in the excavation, the biological monitor will remove the animal if they cannot escape unimpeded. SDG&E also will implement Operational Protocols #2, #4, #5, #7, and #10, which prohibit construction personnel from conducting activities that may harm or harass special-status wildlife species (i.e., hunting, feeding, and collecting wildlife). In addition, temporary lighting at staging and storage areas will be directed on site and away from any sensitive receptors as part of its Standard Operating Procedures for linear projects. SDG&E will reduce impacts associated with the spread of noxious weeds in the construction areas by conforming to the habitat reclamation procedures outlined in Section 7.2 of the NCCP.

Significance Determination: The area of habitat loss is small compared to the special-status small reptile habitat that is available regionally, and the permanent impacts would not result in the long-term decline in any special-status reptile species, therefore there would be no substantial adverse impact on special-status reptiles resulting the Proposed Project. Therefore, permanent and temporary direct and indirect impacts on special-status reptile species from the Proposed Project would be less than significant. Implementation of the Standard Operating Procedures, Section 7.1 (including the NCCP *Operational Protocols*) and Section 7.2 of the NCCP would ensure potential impacts to special-status reptiles remain *less than significant.*

4.5.2 Special-Status and Nesting Avian Species

Proposed construction activities may impact up to six special-status avian species that have either been observed on site or have a moderate or high potential to breed or forage within the PSA. Five special-status avian species including coastal California gnatcatcher, Cooper's hawk, least Bell's vireo, Southern California rufous-crowned sparrow, and yellow warbler were observed within or near the PSA. Southwestern willow flycatcher has a moderate potential for occurring within the PSA. Impacts to these special-status species, and to other nesting birds protected by the MBTA and the California Fish and Game Code, may occur as a result of Proposed Project construction.

Direct Impacts

Proposed Project activities that could permanently affect special-status avian species' habitats include the permanent loss of habitat used for foraging and nesting for avian species. Permanent removal of habitat would be necessary for the installation of steel poles and structure foundations. A variety of other avian species protected under the MBTA (see Section 3.5.4,

Migratory Birds), but not considered rare, threatened, or endangered by local, state, or federal laws or regulations, would also be impacted by removal of these vegetation communities.

Permanent direct impacts may also occur to individuals from vehicular strikes or excavation equipment strikes. Vehicular collisions occur most frequently during the vegetation clearing stage of construction, and involve eggs, nestlings, and recently fledged young that cannot safely avoid equipment. In addition, electrocution of avian species can occur from wing contact with two conductors, as avian species perching, landing, or taking off from a utility pole can complete the electrical circuit. Avian electrocutions can also occur through simultaneous contact with energized phase conductors and other equipment or simultaneous contact with an energized wire and a grounded wire. Electrocution of avian species poses a greater potential hazard to larger birds, such as raptors, because their body sizes and wing spans are large enough to bridge the distance between the conductor wires and, thus, complete the electrical circuit. Proposed Project activities that could temporarily directly affect special-status avian species habitat include general construction-related activities, including vegetation trimming and vegetation removal. Vegetation trimming and vegetation removal could result in temporary removal of nesting or foraging habitat and/or the removal of some food sources during construction.

Indirect Impacts

Potential indirect effects to avian species include impacts resulting from decreased suitability of habitat in the Proposed Project vicinity resulting from various factors such as increased noise from construction activities and vehicles, vehicle emissions, dust, and other human activity. Noise from construction activities can affect avian species in multiple ways such as depressing breeding success by acoustical masking, interfering with intra-specific communication, and interfering with detection of predators. Construction activities could disrupt breeding and foraging activities, and could prevent birds from attending to nests or could cause birds to flush from their nests, endangering eggs and chicks. Dust could have an adverse effect on the health of chicks and adults as well as on the viability and presence of prey insects and on the overall health of vegetation. Temporary indirect impacts to all avian species include the disruption of nesting behavior due to a temporary increase in the presence of humans, as well as noise from construction equipment and vehicles. Temporary impacts may also result from unauthorized actions from construction personnel, such as hunting or feeding of avian species. Night lighting associated with construction activities may also temporarily affect avian species roosting and foraging behavior, especially for avian species that are active after dark. Avoidance and Minimization Measures

In order to avoid and minimize impacts to nesting birds, SDG&E will conduct a pre-activity survey, which will include a nesting bird survey, if Proposed Project activities are conducted during the bird breeding season (February 15 through August 31). As part of Operational Protocol #35, SDG&E will also ensure biological monitoring during construction if recommended in the pre-activity survey report. Biological monitors will ensure appropriate avoidance of nest locations are maintained if construction occurs during the breeding season.

SDG&E also will implement Operational Protocol #1, which requires construction vehicles to maintain a 15 mph hour speed limit, reducing the potential for avian collisions, as well as Operational Protocol #11, which requires that all employees receive environmental training on special-status species potentially occurring with the Proposed Project area. SDG&E also will implement Operational Protocols #2, #4, #5, #7, and #10, which prohibit construction personnel from conducting activities that may harm or harass special-status wildlife species (i.e., hunting, feeding, harassing, relocating and collecting wildlife). The risk of damaging oak trees will be reduced through implementation of Operational Protocol #6, which prohibits construction personnel from parking or driving under oak trees.

SDG&E will reduce impacts associated with the spread of noxious weeds in the construction areas by conforming to the habitat reclamation procedures outlined in Section 7.2 of the NCCP. In addition, temporary lighting at staging and storage areas will be directed on site and away from any sensitive receptors as part of its Standard Operating Procedures for linear projects. The power line structures would be constructed in compliance with the Avian Power Line Interaction Committee (APLIC) Suggested Practices for Avian Protection on Power Lines. The APLIC standards are in addition to SDG&E's current construction standard, which includes increased phase spacing and cover-ups to reduce avian mortality from electrocution. Therefore, the potential for avian electrocution would be reduced.

Significance Determination: Implementation of these Standard Operating Procedures, and Section 7.1 (including the NCCP *Operational Protocols*) and Section 7.2 of the NCCP would ensure potential impacts on special-status avian species remain *less than significant.*

4.5.3 Special-Status Mammal Species

Six special-status mammal species have a moderate or high potential to occur within the PSA based on the presence of CNDDB occurrences nearby and suitable habitat within the PSA: American badger, northwestern San Diego pocket mouse, San Diego black-tailed jackrabbit, San Diego desert woodrat and southern mule deer.

Direct Impacts

Permanent impacts on special-status mammal species habitat are anticipated as a result of the removal of vegetation for permanent placement of steel poles within their habitat, specifically within the sensitive natural communities identified in Table 5: Potential Impacts on Vegetation Communities. Because this area is small compared to the regional habitat available for these species, and because these permanent impacts would not result in the long-term decline of these species, there would be no significant permanent impacts on northwestern San Diego pocket mouse, San Diego black-tailed jackrabbit and San Diego desert woodrat. Permanent impacts on these species would be less than significant.

Power lines and other Proposed Project-related structures provide potential perching opportunities for raptor species, which can increase the potential for predation of wildlife, including special-status mammal species, by raptors. Because the Proposed Project involves installing an additional powerline in Segment 2, the extent of predation on special-status mammals is anticipated to increase slightly, but is not expected to result in a long-term decline of any special-status mammal species. Temporary indirect impacts on special-status mammal species include the temporary loss of habitat from vegetation trimming resulting from Proposed Project construction activities.

Indirect Impacts

The Proposed Project may also result in impacts on special-status mammal species if non-native noxious weed seeds are spread within occupied habitats during construction. If allowed to establish and spread, these weeds could alter the habitat for these species. Temporary impacts also may result from construction noise and ground vibration, as animals may be deterred from inhabiting or foraging in areas near such activities. Because these species are most active at night temporary impacts associated with nighttime construction activities may result in temporary avoidance of construction areas due to lighting, temporarily reducing the animal's ability to forage at night. However, these temporary impacts would be short-term and located in only a few work areas at a time during construction of the Proposed Project. The Proposed Project may also result in indirect impacts on special-status mammal species if non-native weed seeds are spread within occupied habitats during construction. If allowed to establish and spread, these weeds could permanently alter the habitat for these species.

Avoidance and Minimization Measures

To ensure that special-status mammals are not impacted as a result of the Proposed Project, SDG&E will implement Operational Protocol #11, which requires that all employees receive environmental training on special-status species potentially occurring with the Proposed Project area. SDG&E also will implement Operational Protocols #2, #4, #5, #7, and #10, which prohibit construction personnel from conducting activities that may harm or harass special-status wildlife species (i.e., hunting, feeding, harassing, relocating and collecting wildlife). SDG&E will reduce impacts associated with the spread of noxious weeds in the construction areas by conforming to the habitat reclamation procedures outlined in Section 7.2 of the NCCP. In addition, temporary lighting at staging and storage areas will be directed on site and away from any sensitive receptors as part of its Standard Operating Procedures for linear projects.

Significance Determination: The area of habitat loss is small compared to the special-status small reptile habitat that is available regionally, and the permanent impacts would not result in the long-term decline in any special-status reptile species, therefore there would be no substantial adverse impact on special-status reptiles resulting the Proposed Project. Implementation of Standard Operating Procedures and Section 7.1 (including the NCCP Operational Protocols) and Section 7.2 of the NCCP would ensure potential impacts to special-status mammals remain *less than significant.*

4.6 JURISDICTIONAL RESOURCES

A total of 100 drainages or features potentially subject to USACE, CDFW, and RWQCB jurisdiction are located within the PSA. Three proposed poles are located within 25 feet of a jurisdictional feature: 7, 72, and 71. Although these poles are very close to a jurisdictional feature, work areas would be designated to one side of the pole (away from the jurisdictional feature) to avoid impacts. A total of 30 jurisdictional drainages either occur adjacent to or cross existing access roads, and 6 jurisdictional drainages occur within or adjacent to proposed staging yards. A full summary of each resource and is found in Appendix E of the Jurisdictional Delineation Report (Appendix C Jurisdictional Delineation Report for the SDG&E TL 6975 Escondido to San Marcos New 69 kV Project).

Significance Determination: No temporary or permanent direct or indirect impacts to jurisdictional features are anticipated to occur during construction of the Proposed Project.

4.7 PRESERVE LANDS

The Proposed Project traverses designated preserves and open space easements. SDG&E would avoid potential impacts and ensure the protection and conservation of these lands when possible in accordance with the SDG&E Subregional NCCP. SDG&E would also implement operational protocols that apply to construction and operation and maintenance activities. The Proposed Project would traverse San Elijo Hills Open Space in the City of San Marcos; permanent impacts would occur on two small areas. The Proposed Project would traverse University Commons Preserve managed by the Center for Natural Lands Management and includes several temporary and permanent impacts adjacent to existing access roads. The Proposed Project would temporarily and permanently impact several areas within the Rancho Dorado HOA Preserve in the City of San Marcos, and Carrillo Ranch Reserve and Carlsbad Raceway Open Space Preserve in the City of Carlsbad. Temporary impacts would occur within the County of San Diego Sage Hill Preserve, primarily within existing disturbed areas of an existing SDG&E access road.

The Proposed Project would traverse several habitat conservation plan lands within the MHCP and the draft North County MSCP. Small temporary and permanent impacts would occur to several of these lands. A small portion of the Proposed Project, the satellite staging yard in Kearney Mesa, would be located within the boundaries of the City of San Diego Subarea Plan of the San Diego MSCP, however the land is developed and not within the Multi-Habitat Planning Area. Portions of the Proposed Project would be within the geographic limits of the MHCP in the City of Carlsbad Subarea Plan, in the draft City of San Marcos Subarea Plan, and in the draft City of Escondido Subarea Plan. Within the unincorporated areas of the county, the Proposed Project is primarily within Pre-Approved Mitigation Areas of the draft North County MSCP. Temporary and permanent impacts would occur within these areas.

Direct permanent impacts would occur to preserve lands by the permanent removal of vegetation for the installation of permanent Proposed Project features such as new steel poles and support structures.

Indirect impacts to preserve lands would occur by impacts that could occur to vegetation communities, special-status plant and animal species and local wildlife movement (including local species home ranges and dispersal) that could result during construction of the Proposed Project from increased human presence, construction-generated noise and nighttime lighting. These indirect impacts may result in avoidance of the site vicinity during local movements, such as home range and dispersal, due to artificial light, noise, degraded surrounding habitat, and other anthropogenic influences.

Overall, impacts to preserves and to habitat conservation plan lands would be minimal, using existing roads and occurring on disjoint features that would not permanently adversely interfere with drainages, topography, jurisdictional features, wildlife corridors, wildlife movement or preserve assembly. Implementation of these Standard Operating Procedures, and Section 7.1 (including the NCCP *Operational Protocols*) and Section 7.2 of the NCCP would ensure potential impacts on preserve lands remain *less than significant.*

4.8 WILDLIFE MIGRATION CORRIDORS

Significant impacts to wildlife movement would occur if a wildlife movement corridor is interrupted by a feature that physically blocks wildlife movement (i.e., a roadway) or if habitat suitable to support wildlife in the movement corridor is directly removed during construction or indirectly affected by construction noise or dust. As discussed in Section 3.7, Habitat Connectivity and Wildlife Corridors, the Proposed Project is located within the Pacific Flyway and contains connectivity for both terrestrial and aquatic animals.

No permanent features would be installed that would result in a physical barrier to large-scale wildlife movement, and no permanent direct impacts to wildlife movement corridor would occur because the Proposed Project is within an existing utility corridor. Only a minor additional ROW is required. Permanent impact areas would be minor and discontinuous, with breaks of natural habitat between them. Construction activities associated with the Proposed Project may result in temporary impacts to normal animal movement due to construction equipment and materials, excavations associated with the pole removals and new pole locations, increased human presence, increased noise levels, and increased vehicular traffic along access roads. However, construction activities would not occur in all areas simultaneously, resulting in minor impacts on wildlife movement at any point in time and at any given location. Construction would occur in segments which would minimize the overall disruption to animals; in addition, trenching operations would also be staged in intervals so that only a maximum of 500 feet of trench would be left open at any one time. This would allow terrestrial wildlife to move throughout most of the Proposed Project impact area during construction. Temporary restrictions on wildlife movement would also be localized to only a portion of the potential wildlife movement area that animals can use at any one time because wildlife can use areas outside of the proposed construction areas.

Significance Determination: Permanent and temporary direct and indirect impacts resulting from the Proposed Project would not create a substantial barrier for wildlife movement, and would not adversely affect home range and dispersal due to the minimal area impacted; and implementation of these Standard Operating Procedures, and Section 7.1 (including the NCCP *Operational Protocols*) and Section 7.2 of the NCCP would ensure potential impacts on therefore, impacts on habitat linkages and wildlife migration corridors would be *less than significant*.

4.9 USFWS CRITICAL HABITAT AREAS

Critical habitat for coastal California gnatcatcher overlaps both the temporary and permanent impact areas associated with the Proposed Project (Appendix A, Figure 3: Preserves and Critical Habitat). The Proposed Project would result in 0.7 acre of permanent and 3.4 acres of temporary impacts on critical habitat for coastal California gnatcatcher at multiple locations throughout the alignment due to vegetation clearing and ground disturbance.

The Proposed Project may result in permanent impacts on critical habitat if non-native invasive weeds are spread during construction; if allowed to establish and spread, non-native invasive weeds may change the species composition of critical habitat. Additionally, construction vehicles and equipment may cause temporary indirect impacts such as increase in sedimentation, erosion, and trampling, and an increase in the amount of fugitive dust, which would decrease the photosynthetic vigor of plants that coastal California gnatcatcher may rely upon within these critical habitat areas.

Consistent with the SDG&E Subregional NCCP, the Proposed Project has been designed to avoid sensitive habitat areas when possible, by not placing new poles in drainage areas; using existing access roads where feasible; and placing any new facilities, staging areas, stringing sites, guard structures, and helicopter landing zones outside sensitive habitats when feasible. Where avoidance of sensitive habitat areas is not possible, or where sensitive habitat areas exist adjacent to the Proposed Project work areas, implementation of the measures in Sections 7.1 and 7.2 of the SDG&E Subregional NCCP would further minimize impacts in sensitive natural communities. Specifically, SDG&E will demarcate the boundaries of work limits and sensitive habitats and resources that will be avoided in accordance with Operational Protocol #14. Operational Protocols #1 and #39 would reduce fugitive dust resulting from construction vehicles by requiring that vehicles drive at speeds of 15 mph or less, and that regular watering occurs, respectively.

Significance Determination: Implementation of these Standard Operating Procedures, and Section 7.1 (including the NCCP *Operational Protocols*) and Section 7.2 of the NCCP would ensure potential permanent and temporary direct and indirect impacts on USFWS Critical Habitat areas would be *less than significant.*

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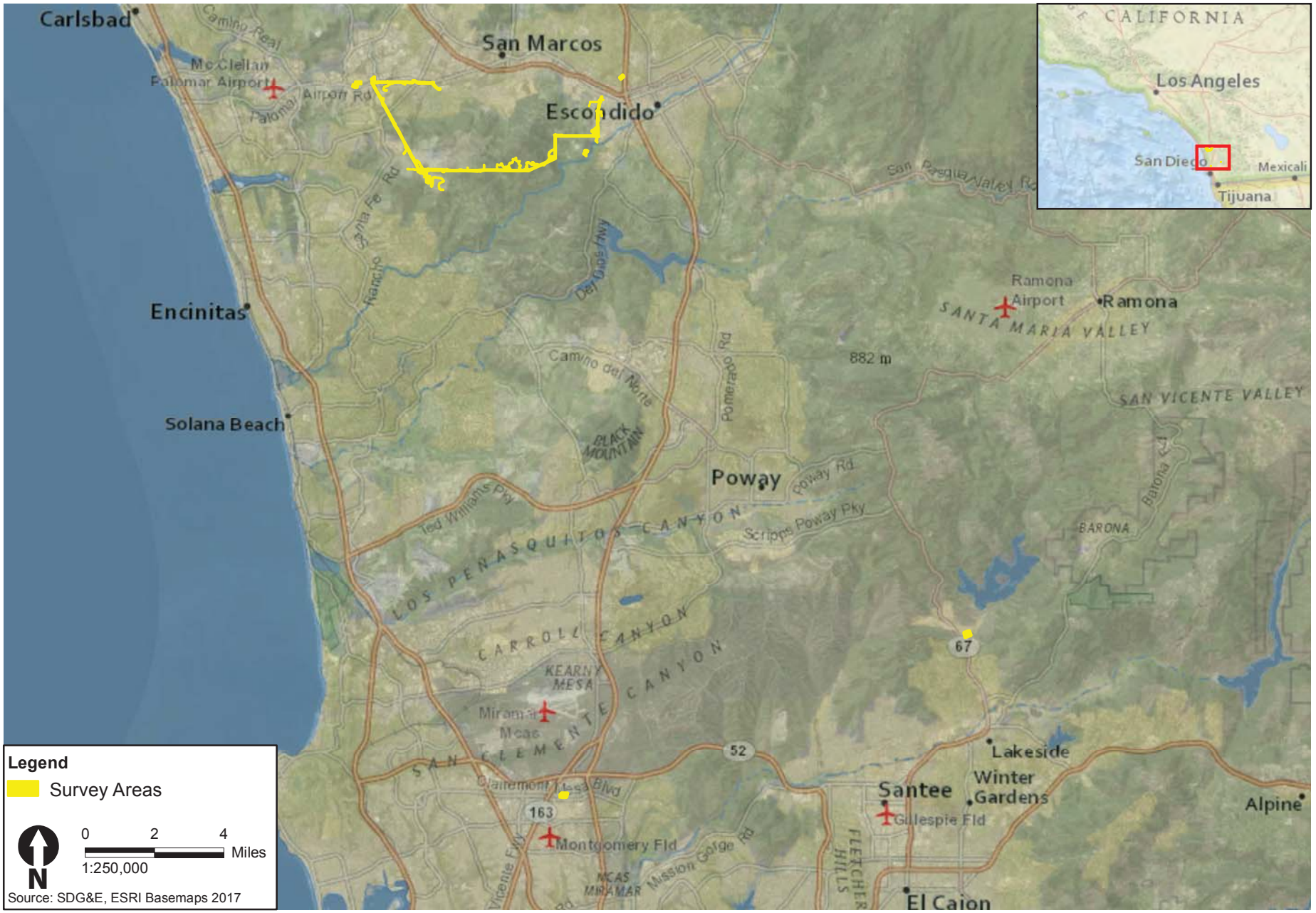
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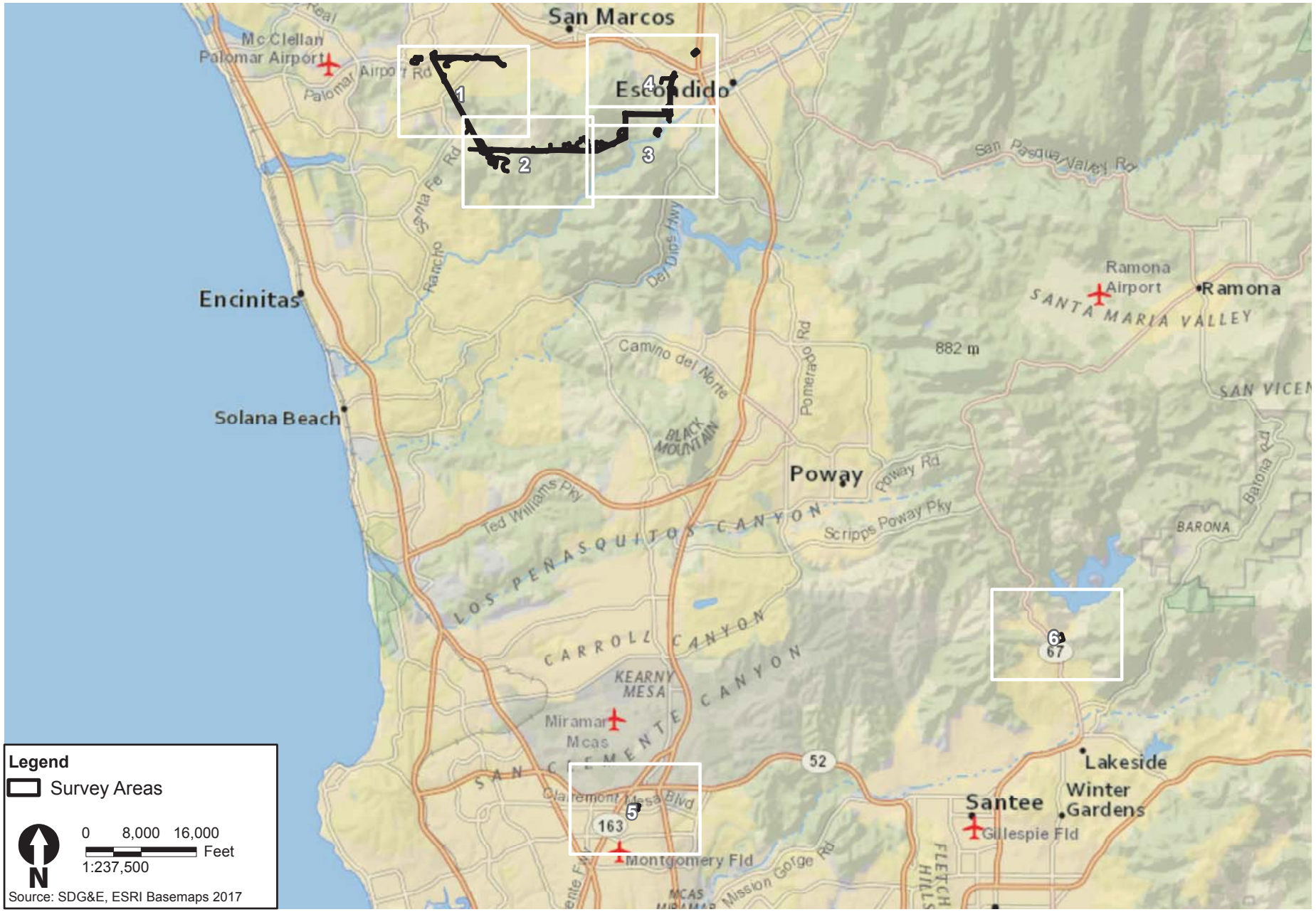
Appendix A
Figures



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Figure 1
Project Location
SDG&E Tie-Line 6975 Project

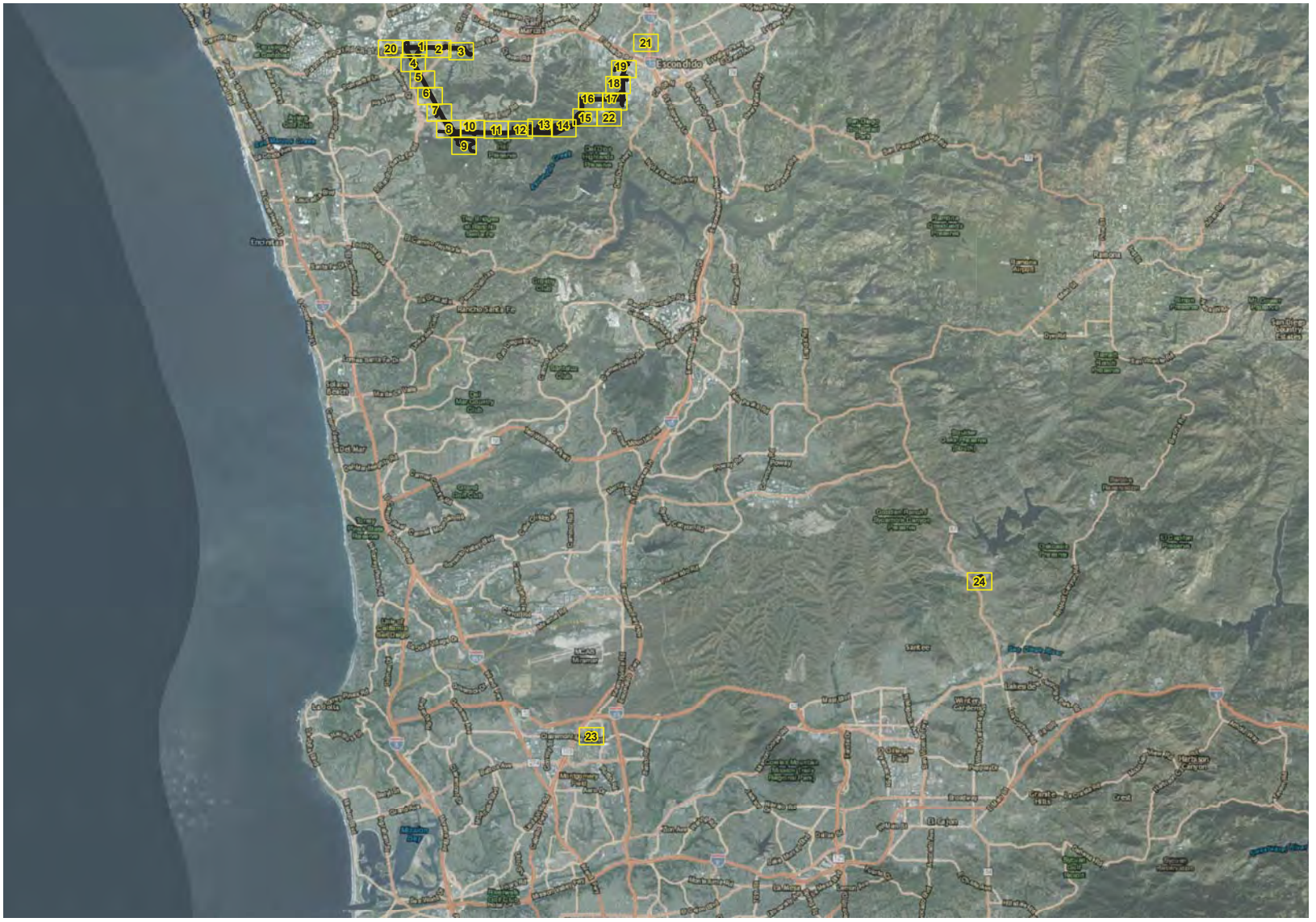
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Figure 2 - Overview
Project Vicinity
SDG&E Tie-Line 6975 Project

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Legend

- Survey Area
- Detail Map Sheets

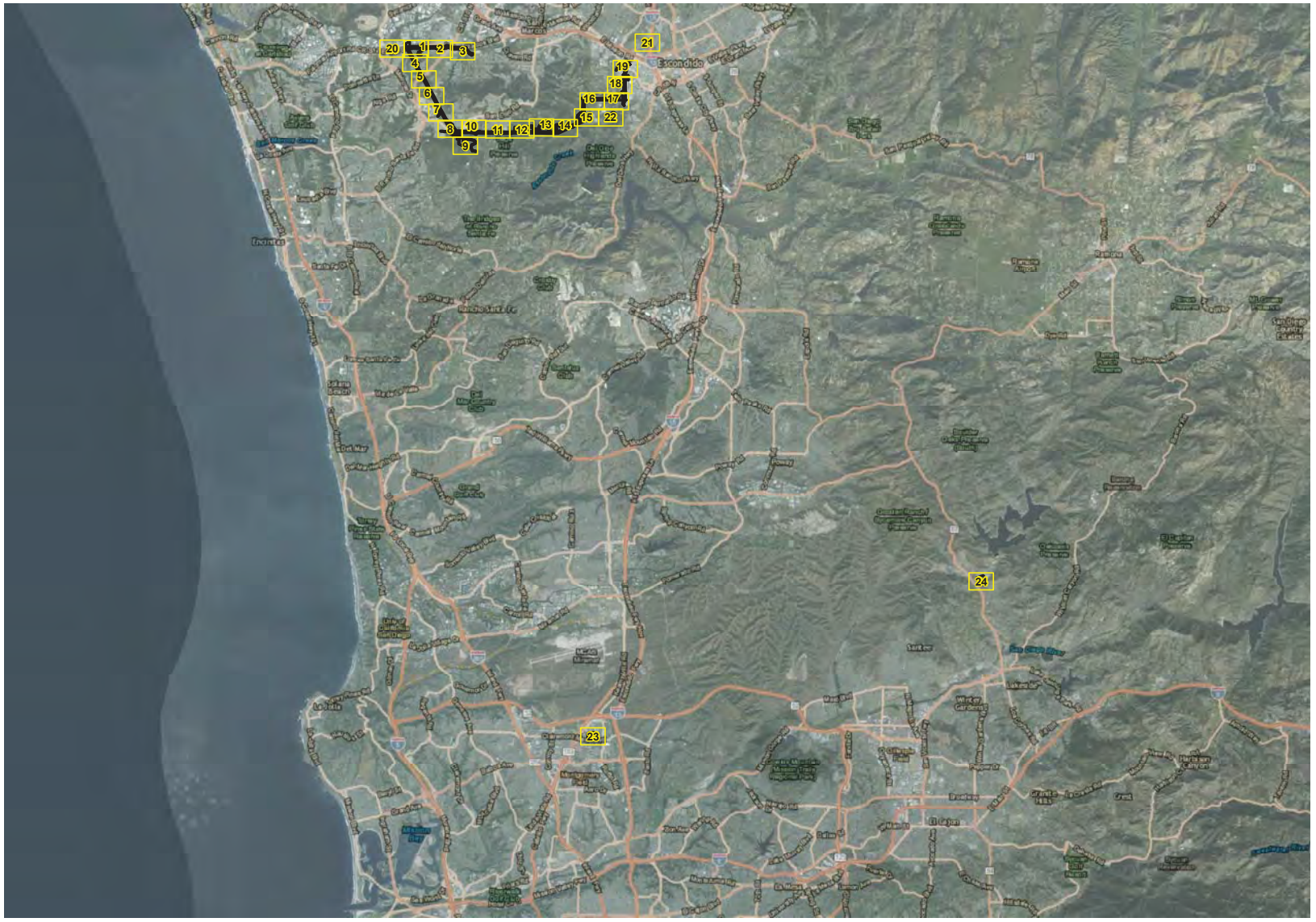
Source:ICF; KP; SDG&E; ESRI 2017

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Figure 3
TL6975 Preserves and Critical Habitat
SDG&E Tie-Line 6975 Project

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Legend

- Survey Area
- Detail Map Sheets

Source:ICF; KP; SDG&E; ESRI 2017

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Figure 4
Vegetation and Special-Status Species
SDG&E Tie-Line 6975 Project

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Appendix B

2016 Coastal California Gnatcatcher, Least Bell's Vireo, and Southwestern Willow Flycatcher Survey Report

2016 Coastal California Gnatcatcher, Least Bell's Vireo and Southwestern Willow Flycatcher Surveys: TL 6975, San Diego County, California

Prepared for:

SDG&E

Prepared by:

ICF International
525 B Street, Suite 1700
San Diego, California 92101

August 2016

ICF International. 2016. Coastal California Gnatcatcher, Least Bell's Vireo and Southwestern Willow Flycatcher Surveys: TL 6975, San Diego County, California. August. (ICF 00191.16) Prepared for San Diego Gas and Electric, San Diego, California.

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1.0 Introduction

This report documents the results of the protocol presence/absence surveys conducted by ICF International (ICF) in 2016 for Coastal California Gnatcatcher (*Polioptila californica californica*), Least Bell's Vireo (*Vireo bellii pusillus*) and Southwestern Willow Flycatcher (*Empidonax traillii extimus*) for TL 6975 in San Marcos and Escondido, San Diego County, California (Figure 1 and Figure 2).

Project Description

San Diego Gas and Electric (SDG&E) proposes to construct and operate a new, approximately 12-mile 69kV transmission line (TL 6975) between the existing SDGE&E Escondido and San Marcos Substations. The reliability project would provide a second circuit in order to

- Achieve 137 MVA continuous/emergency rating
- Eliminate real time 69kV Congestion at San Marcos
- Increase reliability at San Marcos Substations
- Eliminate potential Category B violations

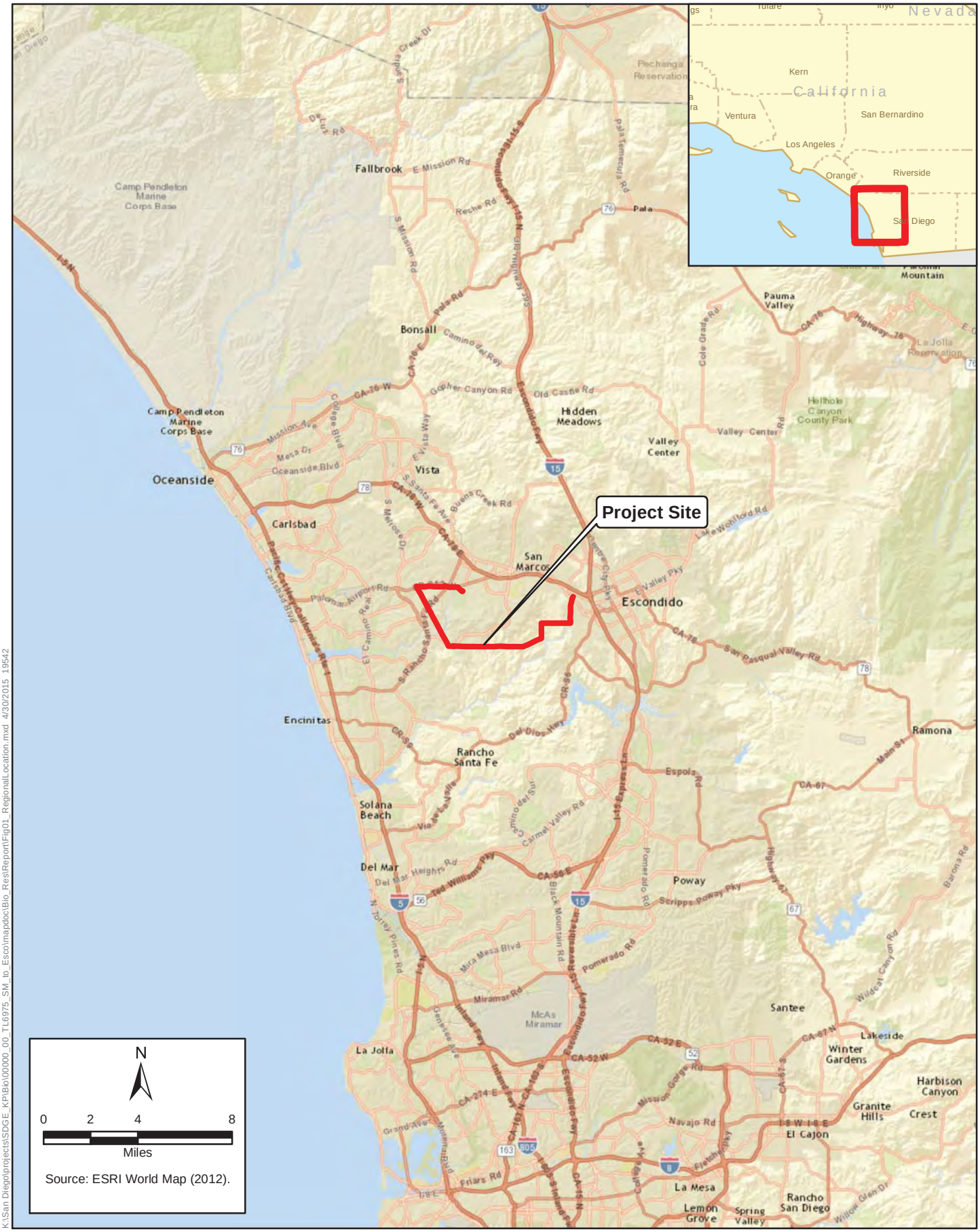
The proposed project includes the reconductoring (with potential replacement of some structures) of an existing de-energized 138 kV transmission line (TL 99911) from Escondido Substation to Meadowlark Junction; the construction of a new transmission line parallel to an existing 138 kV transmission line (TL13825) from Meadowlark Junction to and along County Highway S12; and the intercept and double circuiting of TL 680C at San Marcos Boulevard/County Highway S12 to San Marcos Substation. A portion of the TL 680C double circuit may be underground from structure Z114431 to San Marcos Boulevard. Figure 2 shows the proposed project alignment.

Project Location

TL 6975 is located in northern San Diego County, California, within the City of San Marcos, City of Escondido and the unincorporated community of Harmony Grove. The powerline is located east of Interstate 15 (I-15), south of California Highway 78 (HWY-78) and north of Elfin Forest Recreational Area and can be found on the USGS San Marcos, Rancho Santa Fe, and Escondido 7.5-minute quadrangles (Figure 2).

Geographical Setting

TL 6975 is in the coastal hills of San Diego County's northern valley. It traverses through developed, residential, and naturally vegetated areas through steep slopes, canyons and drainages. Surrounding land use consists of residential, commercial, recreational, and undeveloped. TL 6975 ranges in elevation from ~335 to 1,050 feet above mean sea level (AMSL).



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Figure 1
SDG&E TL6975 Regional Location

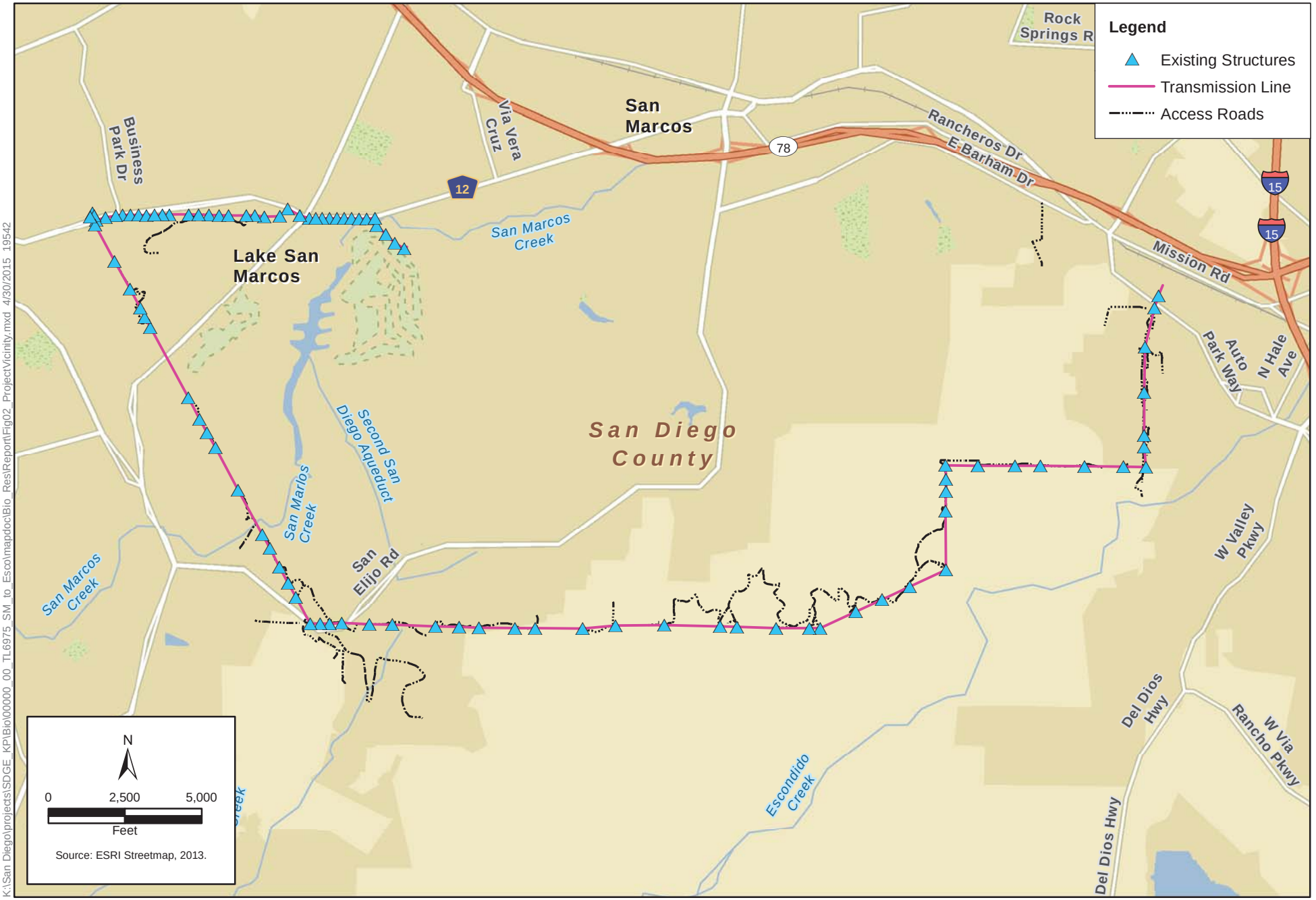


Figure 2
SDG&E TL6975 Project Vicinity

Species Account

Coastal California Gnatcatcher

The Coastal California Gnatcatcher (*Polioptila californica californica*) is a small resident insectivorous species whose occurrence is strongly associated with sage scrub habitats found throughout southern California into northern Baja California, Mexico. Although Coastal California Gnatcatchers have a close association with sage scrub, this species has also been documented using coastal sage-chaparral scrub, chamise chaparral, and other habitat types (Campbell et al. 1998, Bontrager 1991). The USFWS listed this species as threatened in 1993. It is considered a California Department of Fish and Wildlife Species of Special Concern. Critical habitat was designated for this species in 2000 and revised in 2007 (USFWS 2000, USFWS 2007).

Historically, Coastal California Gnatcatchers range extended from southern Ventura County southward through Los Angeles, Orange, Riverside, San Bernardino, and San Diego counties, and into Baja California, Mexico, to approximately 30 degrees north latitude near El Rosario (Atwood 1990). Habitat destruction, fragmentation and modification have led to this species' decline (USFWS 1993). Loss to agriculture and urban development were leading causes until 2003 when the Cedar Fire destroyed almost 28% of the remaining habitat that the USFWS believed to be suitable for the Coastal California Gnatcatcher (Bond and Bradley 2003). In October 2007, several fires burned approximately 369,000 acres in San Diego County. The extent of damage to habitat types and listed species is currently being analyzed by the USFWS.

Least Bell's Vireo

The Least Bell's Vireo (*Vireo bellii pusillus*) breeds in southern California and northwestern Baja California, with the majority of the population located in San Diego County. The Least Bell's Vireo is a small, migratory insectivore that prefers dense riparian vegetation for foraging and nesting. The California Department of Fish and Wildlife (CDFW) listed the Least Bell's Vireo as endangered in 1980. The U. S. Fish and Wildlife Service (USFWS) followed suit in 1986. Critical habitat was designated for this subspecies in 1994 along the southwestern coastline of California below Santa Barbara (USFWS 1994).

Historically, Least Bell's Vireo was a common to locally abundant species found in lowland riparian habitats between northern California and coastal southern California. However, loss of riparian habitats and Brown-Headed Cowbird (*Molothrus ater*) parasitism led to a large population decline. When USFWS first listed the bird in 1986, the population was estimated to be just 300 pairs. The latest Five Year Review, dated September 2006, reported a 10-fold increase in population size since the time of its listing to an estimated 2,968 territories (USFWS 2006). The vireo population increase is largely attributed to cowbird control and habitat restoration and preservation (Kus 1999, Kus and Whitfield 2005).

Least Bell's Vireos typically begin to arrive on their breeding grounds by mid to late March. Males tend to arrive first and establish territories; females arrive a few days later. Site fidelity is high among adult Least Bell's Vireo, with many birds returning to the same territory each year and even using the same shrub as previous years (Salata 1983, Kus 2002). Nests are typically placed within 1 meter of the ground in dense shrubby riparian habitat, and a diverse canopy height is required for foraging, with willows often dominating the canopy layer (Salata 1983). Nesting lasts from early April through July, at which some vireos may begin to depart; however most adults and juvenile birds remain on the breeding grounds into late September/early October. In southern California, Least Bell's Vireo nest sites were most frequently located in riparian stands between 5 and 10 years old (SANDAG and RECON 1990). Based on rigorous statistical analysis of Least Bell's Vireo habitat structure and

composition, this species appears to preferentially select sites with large amounts of shrub and tree cover, a large degree of vertical stratification, and small amounts of aquatic and herbaceous cover (SANDAG and RECON 1990).

Southwestern Willow Flycatcher

The Southwestern Willow Flycatcher (*Empidonax traillii extimus*) is one of four subspecies of willow flycatcher in the United States that breeds in southern California and was listed as an endangered species by CDFW in 1991 (CDFW 2015) and the USFWS in 1995 (USFWS 1995). Critical habitat for this species was revised by the USFWS in 2013 (USFWS 2013). The other three willow flycatcher subspecies are not listed as sensitive by the federal or state governments.

This small, insectivorous, migratory bird is usually found in dense riparian vegetation occurring along streams or other wetlands (Sogge et al. 2010). The structure of these habitats typically consists of a dense midstory and understory and can also include a dense canopy (USFWS 1995). However, suitable vegetation is not uniformly dense and typically includes interspersed patches of open habitat. Typical plant species associated with their habitat include willow, mule-fat, box-elder (*Acer negundo*), stinging nettle (*Urtica* spp.), cottonwood (*Populus* spp.), tamarisk (*Tamarix* spp.), and Russian olive (*Elaeagnus angustifolia*). Plant species composition does not seem as important as a dense twig structure and an abundance of live, green foliage (Sogge et al. 2010). Within the habitat structure parameters discussed above, Southwestern Willow Flycatcher does demonstrate adaptability in that it can occupy riparian habitats composed of native broadleaf species, a mix of native and exotic species, or monotypic stands of exotics (Sogge et al. 2010).

The Southwestern Willow Flycatcher is known to breed in southern California, Arizona, New Mexico, extreme southern portions of Nevada and Utah, far western portions of Texas, possibly in southwestern Colorado, and in extreme northwestern Mexico (USFWS 1995). When listed by the USFWS in 1995, only 577 individuals were known to exist. The decline of this species was mostly due to disturbance and removal of riparian vegetation; water diversions and groundwater pumping; limited food availability and nesting sites; mismanagement of livestock; recreational development; and brood parasitism by the Brown-Headed Cowbird (USFWS 1995).

Southwestern Willow Flycatchers usually arrive on their breeding grounds in southern California in early-May and remain through late-July. Timing of departure of locally breeding birds is difficult to determine because of their extremely secretive behavior at that time, coupled with more abundant migrants of the three other willow flycatcher subspecies passing through the area. Migrants of subspecies other than Southwestern Willow Flycatcher, such as the northwestern subspecies (*E. t. brewsteri*), are widespread as they pass through southern California. Other subspecies occurrences are mainly from late-May through mid-June, when generally uncommon, and from late-July through September, when fairly common. In light of these migration windows, definitive identification of a willow flycatcher as the southwestern subspecies usually occurs between June 14 and July 17 (Sogge et al. 2010).

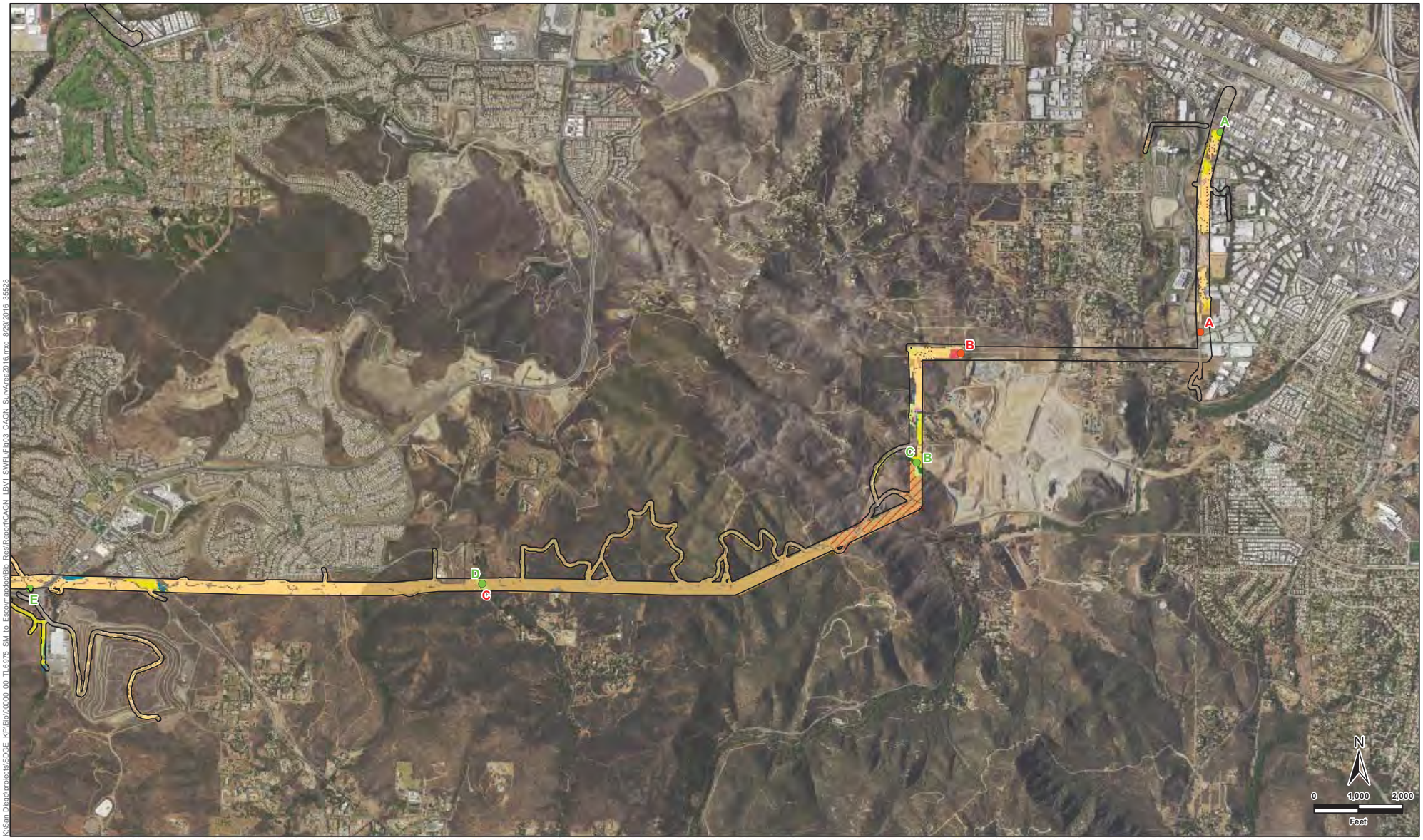
2.0 Methods

Coastal California Gnatcatcher surveys were conducted at the study area between March 15 and June 12, 2016 (Table 1). Six protocol surveys were conducted at least 1 week apart and in accordance to USFWS protocol (USFWS 1997). All potentially suitable gnatcatcher habitat including coastal sage scrub, chaparral, and grassland vegetation communities was surveyed during the first survey of the entire span of TL 6975. After the initial survey, six survey areas were determined to contain suitable habitat and were included for the remaining 5 surveys (Table 2, Figure 3). Habitat determined to be unsuitable was excluded from further surveys. Pre-recorded audiotape playback was used to determine presence of Coastal California Gnatcatcher. Surveys were performed during morning hours prior to 1200, when gnatcatchers are most active. Some surveys finished between 1200 and 1300 when weather conditions were good (<70°F) and birds were observed to be active.

Methods for the Least Bell's Vireo surveys adhered to the recommended guidelines provided by the USFWS for presence/absence surveys (USFWS 2001). After the initial survey of all riparian habitat within TL 6975, one area was identified and determined to contain suitable vireo habitat (Figure 4). All other areas of riparian were excluded because they were either not suitable or too small to support a vireo territory (< 0.1 acres). ICF biologists conducted 8 presence/absence surveys for Least Bell's Vireo between May 9 and July 30, 2016 (Table 1). All visits were performed during morning hours prior to 1130, when vireos are most active, and included frequent stops to look for individuals and listen for vocalizations (songs and/or scolds).

Five protocol Southwestern Willow Flycatcher surveys of the same survey area as the Least Bell's Vireo were conducted following the amended survey methodology between May 21 and July 5, 2015 (Sogge et al. 2010; U.S. Fish and Wildlife Service 2000) (Figure 4, Table 1). One survey occurred within the first survey period (May 15–31), 3 within the second survey period (June 1–24), and 1 within the third survey period (June 25–July 17). Each survey was conducted at least 5 days apart and was concluded by 1130. Surveys included thorough coverage of all potentially suitable habitats, which consisted of slowly walking with frequent stops to look, listen, and play recordings of flycatcher vocalizations. Recordings were played at distance intervals of approximately 75–100 feet, and only while stationary and after first looking and listening for any potential flycatchers.

For all three species, surveys were not conducted during inclement weather such as extreme hot or cold temperatures, fog, high winds, or rain (Table 1). For each bird encountered, biologists recorded age (adult of juvenile), sex, and breeding status (paired, single, undetermined, or transient). Vireo and flycatchers were considered transients if they were detected once during the season. All surveys were led by Kimberly Ferree (USFWS Permit No. TE-122632), with assistance from Courtney Casey, Camilla Estes, Ryan Layden, Nicole Salas, and Julia Vandergardner. In conjunction with protocol gnatcatcher, vireo and flycatcher surveys, all other bird species that were detected during the survey were recorded. In addition, bird species on the County of San Diego Sensitive Animal List (County of San Diego 2010) were plotted on a map. A species list and map of the sensitive county birds that were detected are provided (Appendix B and Figure 7).



SurveyArea
Survey Area Begin Point
Survey Area End Point

Vegetation Communities

Diegan Coastal Sage Scrub
Diegan Coastal Sage Scrub-Disturbed
Diegan Coastal Sage Scrub-Burned
Southern Maritime Chaparral
Southern Maritime Chaparral-Burned
Coastal Sage-Chaparral Transition
Non-Native Grassland
Coast Live Oak Woodland
Southern Coast Live Oak Riparian Forest
Non-Native Woodland
Eucalyptus Woodland

Figure 3-1
California Gnatcatcher Survey Areas
SDG&E TL6975

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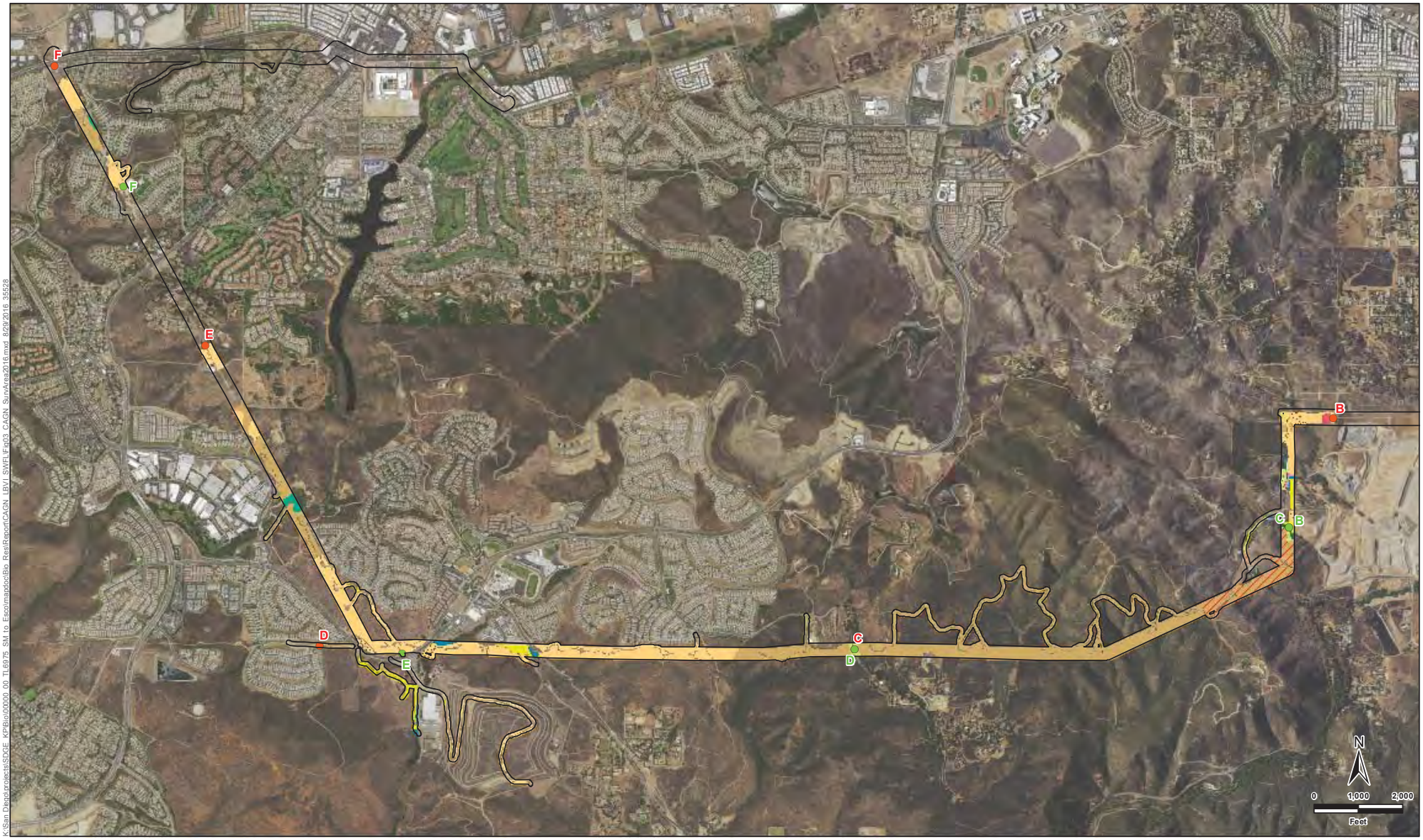


Figure 3-2
California Gnatcatcher Survey Area
SDG&E TL6975



Figure 4
Least Bell's Vireo and Southwestern Flycatcher Survey Area
SDG&E TL6975

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3.0 Results

Coastal California Gnatcatcher

A total of 33 Coastal California Gnatcatcher territories were identified during the 2016 focused surveys (Figure 5, Table 3). Nine territories were located in Survey Area C, 9 in Survey Area D, 13 in Survey Area D, and 2 in Survey Area F (Figure 5). No territories were observed in Survey Areas A and B. Of the 33 Coastal California Gnatcatcher territories detected, 22 were confirmed as paired; 3 were detected with nests, 1 was detected with nestlings, and 3 were detected with fledglings. Gnatcatcher territory status and observations are included in Appendix C.

Least Bell's Vireo

Two Least Bell's Vireo transients were detected on June 13 and July 5, 2016 (Figure 6, Table 4). It is possible this was a single individual detected during the three-week span. On both occasions the male was extremely responsive to playback and was observed singing high and moving around frequently in the vegetation for approximately 30 minutes. No female was detected. The survey area supports foraging and nesting habitat for Least Bell's Vireos and has high potential to support breeding Least Bell's Vireo.

Southwestern Willow Flycatcher

No Southwestern Willow Flycatchers were detected during the 2016 focused surveys. Suitable Southwestern Willow Flycatcher habitat typically consists of a dense mid-story and understory and can also include a dense canopy (USFWS 1995). The study area supports foraging and nesting habitat for Southwestern Willow Flycatchers. At this time, the survey area has moderate potential to support breeding Southwestern Willow Flycatchers.



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Figure 5 Index
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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SurveyArea

Figure 5-1
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



SurveyArea

Figure 5-2
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975

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SurveyArea

Figure 5-3
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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SurveyArea

Figure 5-4
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



Figure 5-5
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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Figure 5-6
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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SurveyArea

California Gnatcatcher Territories

Pair

Undetermined Status

Figure 5-7
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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SurveyArea **California Gnatcatcher Territories**

Pair

Figure 5-8
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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SurveyArea **California Gnatcatcher Territories**

Pair

Figure 5-9
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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SurveyArea

California Gnatcatcher Territories

Pair

Undetermined Status

Figure 5-10
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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SurveyArea **California Gnatcatcher Territories**

Pair

Figure 5-11
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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SurveyArea **California Gnatcatcher Territories**

Pair

Undetermined Status

Figure 5-12
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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Figure 5-13
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



SurveyArea **California Gnatcatcher Territories**

Pair

Figure 5-14
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975

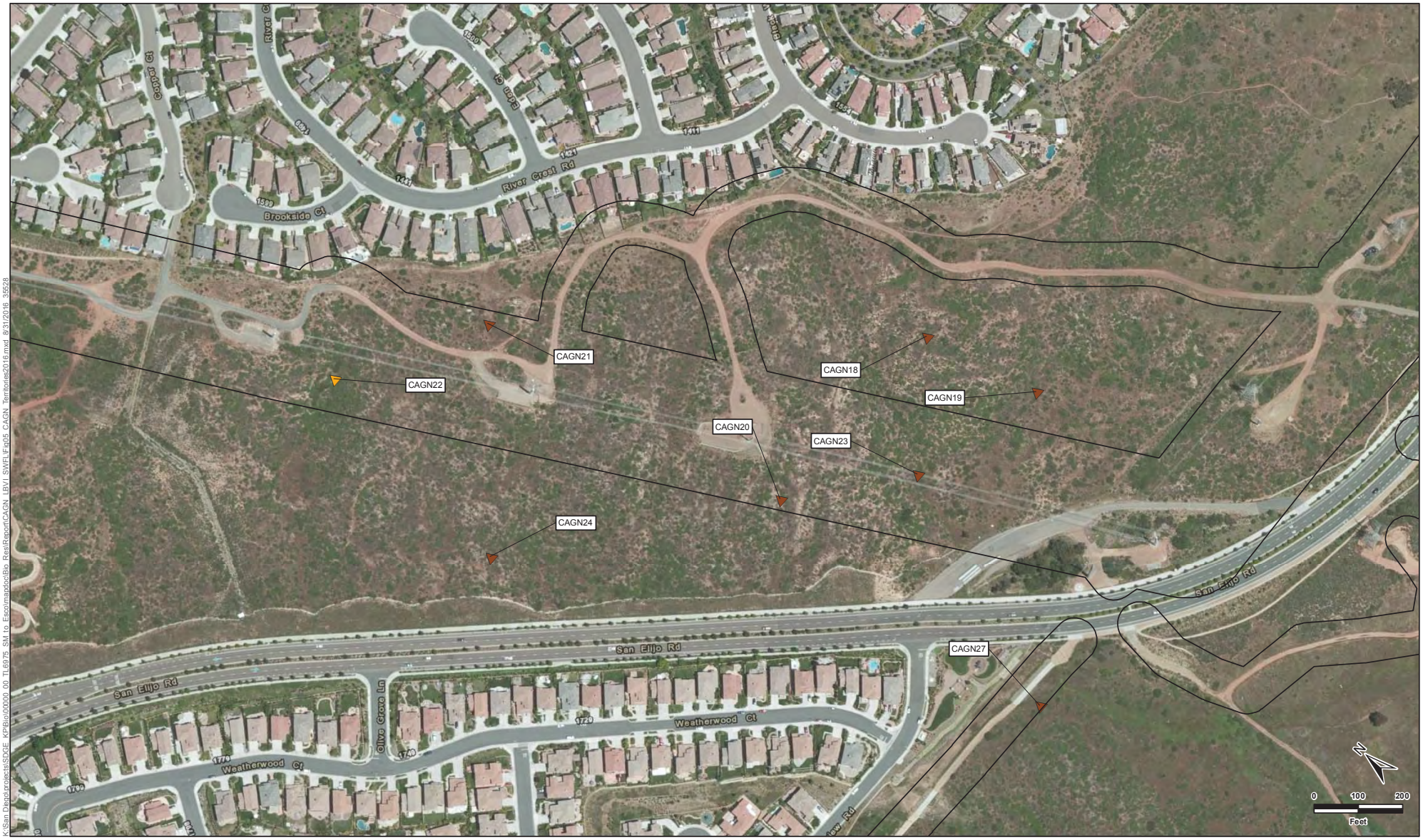
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SurveyArea **California Gnatcatcher Territories**
Pair
Undetermined Status

Figure 5-15
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



SurveyArea **California Gnatcatcher Territories**
Pair
Undetermined Status

Figure 5-16
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975

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SurveyArea

California Gnatcatcher Territories

Pair

Undetermined Status

Figure 5-17
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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SurveyArea **California Gnatcatcher Territories**

Undetermined Status

Figure 5-18
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



SurveyArea

Figure 5-19
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975

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SurveyArea **California Gnatcatcher Territories**

Pair

Figure 5-20
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



SurveyArea **California Gnatcatcher Territories**

Undetermined Status

Figure 5-21
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975

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Figure 5-22
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



SurveyArea

Figure 5-23
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975

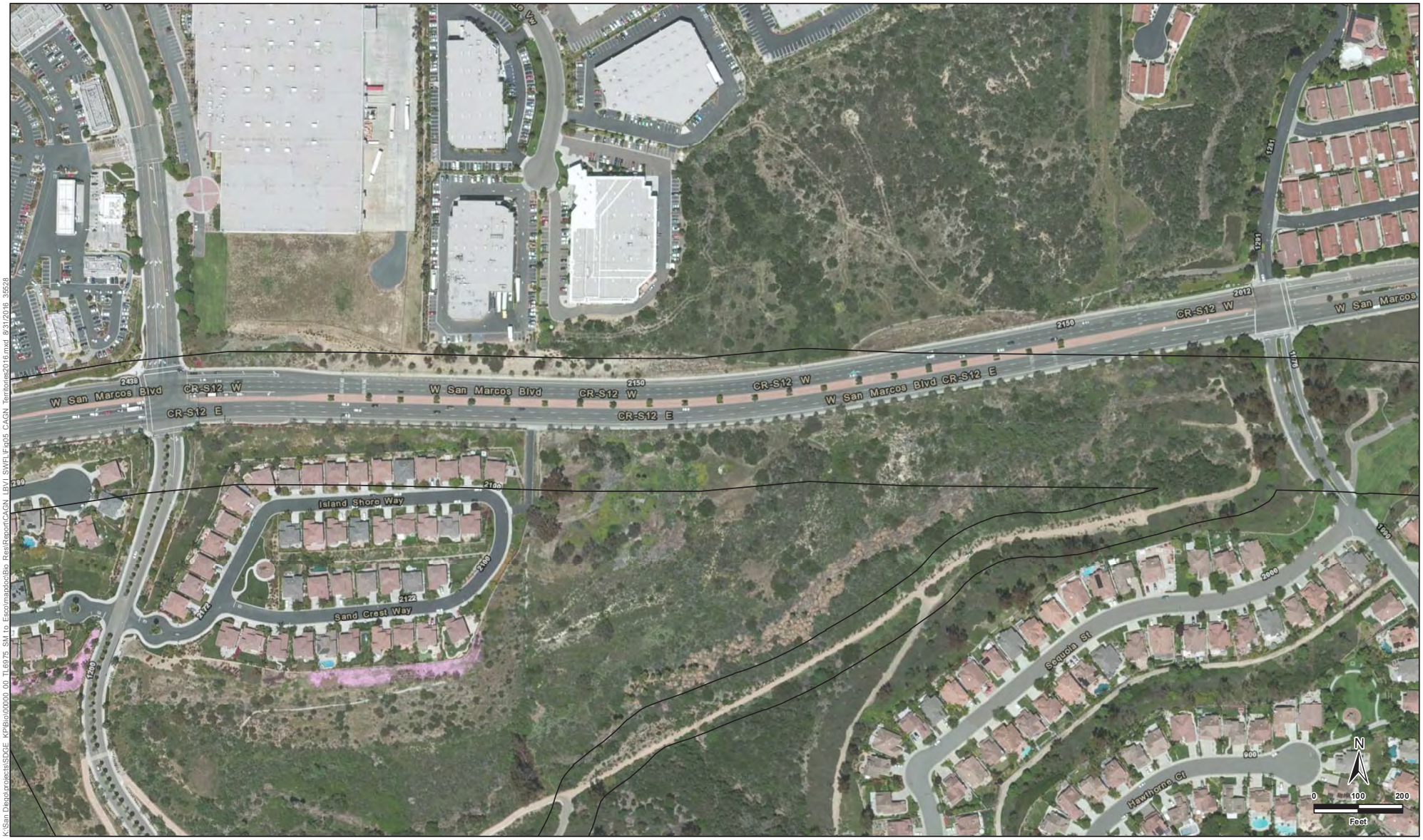
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SurveyArea

Figure 5-24
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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Figure 5-25
Locations of 2016 California Gnatcatcher Territories
SDG&E TL6975



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Survey Area **California Gnatcatcher Territories**

Individual(s)

Figure 6
Least Bell's Vireo Transient Locations
SDG&E TL6975

Table 1. Survey dates and weather conditions for Coastal California Gnatcatcher (CAGN), Least Bell's Vireo (LBVI) and Southwestern Willow Flycatcher (SWFL) protocol presence/absence surveys conducted for TL 6975, San Diego County, California, in 2016.

Survey Date	Survey Type/ Number	Survey Area (s)[1]	Start–End Time	Temperature (Start–Stop, °F)	Wind Speed (mph)	% Cloud Cover (Start–Stop)	Surveyors	Species Detected?
March 15	CAGN 1	A, B, F	0715-1235	53-60	0-3	100-80	K. Ferree	No
March 17	CAGN 1	D, E	0720-1245	52-61	1-6	100-50	K. Ferree	Yes
March 22	CAGN 1	C, D	0730-1210	55-63	1-6	95-60	K. Ferree	Yes
March 29	CAGN 2	A, B, F	0730-1310	48-61	1-6	10-80	K. Ferree	Yes
March 30	CAGN 2	C	0740-1045	45-61	0-6	0-80	K. Ferree	Yes
April 1	CAGN 2	D, E	0630-1220	52-66	0-3	80-0	K. Ferree R. Layden	Yes
April 12	CAGN 3	D	0625-1305	46-65	1-6	100-0	K. Ferree C. Estes N. Salas	Yes
April 13	CAGN 3	C, E	0807-1200	57-66	0-0	100-75	K. Ferree J. Vandergardner R. Layden	Yes
April 14	CAGN 3	A, B, F	0900-1225	63-68	1-10	90-10	K. Ferree	No
April 16	CAGN 3	E	0620-1005	52-75	0-6	0-0	K. Ferree	Yes
April 25	CAGN 4	D	0720-1230	55-64	0-6	100-95	K. Ferree J. Vandergardner R. Layden	Yes
April 27	CAGN 4	E	0615-1145	52-62	1-6	100-90	K. Ferree	Yes
April 28	CAGN 4	A, B	0610-1155	55-66	0-0	50-0	K. Ferree	Yes
May, 3	CAGN 4	C	0605-1050	55-68	0-0	25-0	K. Ferree R. Layden	Yes
May 9	CAGN 5/LBVI 1	B, E, LBVI/SWFL	0605-1210	57-67	0-0	100-0	K. Ferree C. Estes	No

Survey Date	Survey Type/ Number	Survey Area (s)[1]	Start–End Time	Temperature (Start–Stop, °F)	Wind Speed (mph)	% Cloud Cover (Start–Stop)	Surveyors	Species Detected?
May 10	CAGN 5	A, D, F	0550-1200	57-70	0-0	100-0	K. Ferree N. Salas	Yes
May 12	CAGN 5	C	0600-1145	61-68	0-0	100-0	K. Ferree C. Casey	Yes
May 21	LBVI 2/SWFL 1	LBVI/SWFL	1005-1100	68-72	0-0	0-0	K. Ferree	No
June 1	LBVI 3/ SWFL 2	LBVI/SWFL	0730-815	61	0-0	100-100	K. Ferree	No
June 5	CAGN 6	A, B	0530-1125	55-68	1-6	75-25	K. Ferree	No
June 7	CAGN 6	E, F	0545-1145	61-68	0-0	100-0	K. Ferree C. Casey	Yes
June 8	CAGN 6	C	0610-1050	61-72	0-3	100-0	K. Ferree N. Salas	Yes
June 12	CAGN 6	D, F	0550-1115	58-67	1-3	100-0	K. Ferree	No
June 13	LBVI 4/SWFL 3	LBVI/SWFL	0614-0715	61-62	0-0	100	K. Ferree	Yes (LBVI)
June 24	LBVI 5/SWFL 4	LBVI/SWFL	1040-1130	77-79	1-3	0-0	K. Ferree	No
July 5	LBVI 6/SWFL 5	LBVI/SWFL	0555-0655	60-61	0-0	95-100	K. Ferree	Yes (LBVI)
July 16	LBVI 7	LBVI/SWFL	0845-0940	69	0-0	0-0	K. Ferree	No
July 30	LBVI 8	LBVI/SWFL	0530-0620	65-67	0-1	0-0	K. Ferree	No

[1]Survey Areas are shown in Figures 3 and 4.

Table 2. Coastal California Gnatcatcher Survey Areas for TL 6975, San Diego County, California, in 2016.

Survey Area	Location Description	Begin Latitude	Begin Longitude	End Latitude	End Longitude
A	Auto Parkway to S. Andreasen Drive.	33° 7'24.32"N	117° 7'2.85"W	33° 6'39.76"N	117° 7'7.72"W
B	From oak riparian north to power line road, (west of Wilgen Road), adjacent to Harmony Grove development.	33° 6'9.99"N	117° 8'22.66"W	33° 6'34.40"N	117° 8'11.16"W
C	From oak riparian west to Questhaven Road.	33° 6'9.99"N	117° 8'22.66"W	33° 5'41.98"N	117°10'17.60"W
D	From Questhaven Road to end of small section west of San Elijo Road.	33° 5'41.98"N	117°10'17.60"W	33° 5'41.68"N	117°12'39.40"W
E	From locked gate on San Elijo Road to Via Del Corvo.	33° 5'40.06"N	117°12'17.63"W	33° 6'48.58"N	117°13'10.60"W
F	Water tower to Palomar Airport Road.	33° 7'23.77"N	117°13'32.72"W	33° 7'50.59"N	117°13'51.23"W

Table 3. Number of Coastal California Gnatcatcher territories identified during presence/absence surveys conducted for TL 6975, San Diego County, California, in 2016.

Survey Area	Known Pairs	Status Undetermined[1]	Number of CAGN Territories
A	0	0	0
B	0	0	0
C	7[2]	2	9
D	6[3]	3	9
E	8[4]	5	13
F	1[5]	1	2
Total	**22**	**11**	**33**

[1]Breeding pair was not confirmed; only a male or female was detected in the territory.
[2]Of the 7 pairs confirmed in Survey Area C, 1 pair was detected with a nest and 1 pair was detected with fledglings.
[3]Of the 6 pairs confirmed in Survey Area D, 1 pair was detected with a nest.
[4]Of the 8 pairs confirmed in Survey Area E, 1 pair was detected with a nest and 2 pairs were detected with fledglings.
[5]The pair confirmed in Survey Area F was detected with nestlings.

Table 4. Survey results for Least Bell's Vireo protocol presence/absence surveys conducted for TL 6975, San Diego County, California, in 2016.

Survey Date	Survey Type and Number	# Individual Males	# Individual Females	# Unknown	# Pairs	# Total Transients
May 8	LBVI 1					0
May 21	LBVI 2					0
June 1	LBVI 3					0
June 13	LBVI 4	1				1
June 24	LBVI 5					0
July 5	LBVI 6	1				1
July 16	LBVI 7					0
July 30	LBVI 8					0

Other Special-Status Bird Species

In total, 46 bird species were detected. A complete list of bird species detected during the surveys is presented in Appendix C.

Southern California Rufous-Crowned Sparrow (*Aimophila ruficeps canescens)*, a County of San Diego Group 2 species was detected in the study area (Figure 7).

4.0 References

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5.0 Certification

I certify that the information in this survey report and attached exhibits fully and accurately represent my work.



August 31, 2016

Kimberly Ferree (Permit No. TE-122632) Date
Wildlife Biologist
Author and Surveys

Appendix A
USFWS Survey Notification

February 11, 2016

Stacey Love
Recovery Permit Coordinator
Department of Interior
Carlsbad Fish and Wildlife Office
2177 Salk Avenue, Suite 250
Carlsbad, California 92008

Subject:15-Day Pre-Survey Notification of Focused Surveys for California Gnatcatcher (*Polioptila californica californica*) for SDG&E proposed project Transmission Line (TL 6975) Escondido to San Marcos New 69kV TL

Dear Stacey:

The intent of this letter is to inform you that we plan to conduct Coastal California Gnatcatcher (*Polioptila californica californica*) protocol surveys along the proposed project area that contain suitable habitat for SDG&E Transmission Line (TL 6975) Escondido to San Marcos New 69kV TL in Escondido and San Marcos, San Diego County, California (Figure 1). The proposed project includes the reconductoring (with potential replacement of some structures) of an existing de-energized 138 kV transmission line (TL 99911) from Escondido Substation to Meadowlark Junction (Map book Overview Green Line); the construction of a new transmission line parallel to an existing 138 kV transmission line (TL13825) from Meadowlark Junction to and along County Highway S12 (Map book Overview Blue Line); and the intercept and double circuiting of TL 680C at San Marcos Boulevard/County Highway S12 (Map book Overview Orange Line) to San Marcos Substation. (Figure 2). Surveys will be conducted along the transmission line route within a 300-foot corridor.

The surveys have been tentatively scheduled to occur on 2/25, 3/3, 3/10, 3/17, 3/18, and 3/25 2016 and will be conducted according to the survey methodology (U.S. Fish and Wildlife Service 1997). Surveys will be conducted by myself (TE-095896-2.1) and Monica Alfaro (TE-051242). An additional biologist may be present during one or all of the surveys to accrue survey hours. Please do not hesitate to contact me at (858) 444-3926 or kimberly.ferree@icfi.com with any questions.

Sincerely,

Kimberly Ferree

Kimberly Ferree
TE-095896-2.1

Senior Wildlife Biologist

525 B Street, Suite 1700 ▪ San Diego, CA 92101 USA ▪ +1.858.578.8964 ▪ +1.844.545.2301 fax ▪ icfi.com

USFWS. 1997. Coastal California Gnatcatcher Presence/Absence Survey Guidelines. Report from Carlsbad Field Office, 28 July 1997. http://www.fws.gov/pacific/ecoservices/endangered/recovery/documents/CCalGnatcatcher.1997.protocol.pdf

March 23, 2016

Stacey Love
Recovery Permit Coordinator
Department of Interior
Carlsbad Fish and Wildlife Office
2177 Salk Avenue, Suite 250
Carlsbad, California 92008

Subject:15-Day Pre-Survey Notification of Focused Surveys for Least Bell's Vireo (*Vireo bellii pusillus*) and Southwestern Willow Flycatcher (*Empidonax traillii extimus)* for SDG&E proposed project Transmission Line (TL 6975) Escondido to San Marcos New 69kV TL

Dear Stacey:

The intent of this letter is to inform you that we plan to conduct Least Bell's Vireo (*Vireo bellii pusillus*) and Southwestern Willow Flycatcher (*Empidonax traillii extimus)* protocol surveys along the proposed project area that contain suitable habitat for SDG&E Transmission Line (TL 6975) Escondido to San Marcos New 69kV TL in Escondido and San Marcos, San Diego County, California (Figure 1). Surveys are to be conducted in support of operations and maintenance along TL6975 to improve system reliability. Surveys will be conducted along the transmission line route within a 300-foot corridor.

The surveys have been tentatively scheduled to occur from April 15 – July 31, 2016 for Least Bell's Vireos and from May 15 – July 17, 2016 for Southwestern Willow Flycatchers and will be conducted according to the survey methodology (U.S. Fish and Wildlife Service 1997). Surveys will be conducted by myself (TE-095896-2.1) and Monica Alfaro (TE-051242). An additional biologist may be present during one or all of the surveys to accrue survey hours. Please do not hesitate to contact me at (858) 444-3926 or kimberly.ferree@icfi.com with any questions.

Sincerely,

Kimberly Ferree
TE-095896-2.1

Senior Wildlife Biologist

525 B Street, Suite 1700 ▪ San Diego, CA 92101 USA ▪ +1.858.578.8964 ▪ +1.844.545.2301 fax ▪ icfi.com

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Appendix B
Species List

Appendix B. Avian Species Detected

Scientific Name	Common Name	Special Status
VERTEBRATES		
Birds		
Callipepla californica	California Quail	
Buteo jamaicensis	Red-tailed Hawk	
Zenaida macroura	Mourning Dove	
Geococcyx californianus	Greater Roadrunner	
Aeronautes saxatalis	White-throated Swift	
Calypte anna	Anna's Hummingbird	
Calypte costae	Costa's Hummingbird	
Selasphorus sasin	Allen's Hummingbird	
Picoides nuttallii	Nuttall's Woodpecker	
Colaptes auratus	Northern Flicker	
Contopus sordidulus	Western Wood-Pewee	
Empidonax difficilis	Pacific-slope Flycatcher	
Sayornis nigricans	Black Phoebe	
Sayornis saya	Say's Phoebe	
Myiarchus cinerascens	Ash-throated Flycatcher	
Tyrannus vociferans	Cassin's Kingbird	
Vireo bellii pusillus	Least Bell's Vireo	FE, SE
Vireo huttoni	Hutton's Vireo	
Vireo gilvus	Warbling Vireo	
Aphelocoma californica	Western Scrub-Jay	
Corvus brachyrhynchos	American Crow	
Corvus corax	Common Raven	
Stelgidopteryx serripennis	Northern Rough-winged Swallow	
Psaltriparus minimus	Bushtit	
Salpinctes obsoletus	Rock Wren	
Catherpes mexicanus	Canyon Wren	
Troglodytes aedon	House Wren	
Thryomanes bewickii	Bewick's Wren	
Polioptila caerulea	Blue-gray Gnatcatcher	
Polioptila californica	California Gnatcatcher	FT, CSC

Scientific Name	Common Name	Special Status
Chamaea fasciata	Wrentit	
Toxostoma redivivum	California Thrasher	
Mimus polyglottos	Northern Mockingbird	
Geothlypis trichas	Common Yellowthroat	
Setophaga coronata	Yellow-rumped Warbler	
Pipilo maculatus	Spotted Towhee	
Aimophila ruficeps canescens	Southern California Rufous-crowned Sparro	
Melozone crissalis	California Towhee	
Melospiza melodia	Song Sparrow	
Zonotrichia leucophrys	White-crowned Sparrow	
Pheucticus melanocephalus	Black-headed Grosbeak	
Passerina caerulea	Blue Grosbeak	
Passerina amoena	Lazuli Bunting	
**Molothrus ater*	Brown-headed Cowbird	
Haemorhous mexicanus	House Finch	
Carduelis psaltria	Lesser Goldfinch	

Legend

*= Non-native or invasive species

Special Status:

Federal:
FE = Endangered
FT = Threatened

State:
SE = Endangered
ST =Threatened
CSC = California Species of Special Concern
CFP = California Fully Protected Species



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Figure 7 Index
Avian Resources
SDG&E TL6975



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Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

Figure 7-1
Avian Resources
SDG&E TL6975



Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

Figure 7-2
Avian Resources
SDG&E TL6975

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Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

Figure 7-3
Avian Resources
SDG&E TL6975

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Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

Figure 7-4
Avian Resources
SDG&E TL6975



Figure 7-5
Avian Resources
SDG&E TL6975



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Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

Figure 7-6
Avian Resources
SDG&E TL6975



Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

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Figure 7-7
Avian Resources
SDG&E TL6975



Figure 7-8
Avian Resources
SDG&E TL6975



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Figure 7-9
Avian Resources
SDG&E TL6975



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Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

Figure 7-10
Avian Resources
SDG&E TL6975



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Figure 7-11
Avian Resources
SDG&E TL6975



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Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

Figure 7-12
Avian Resources
SDG&E TL6975



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Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

Figure 7-13
Avian Resources
SDG&E TL6975



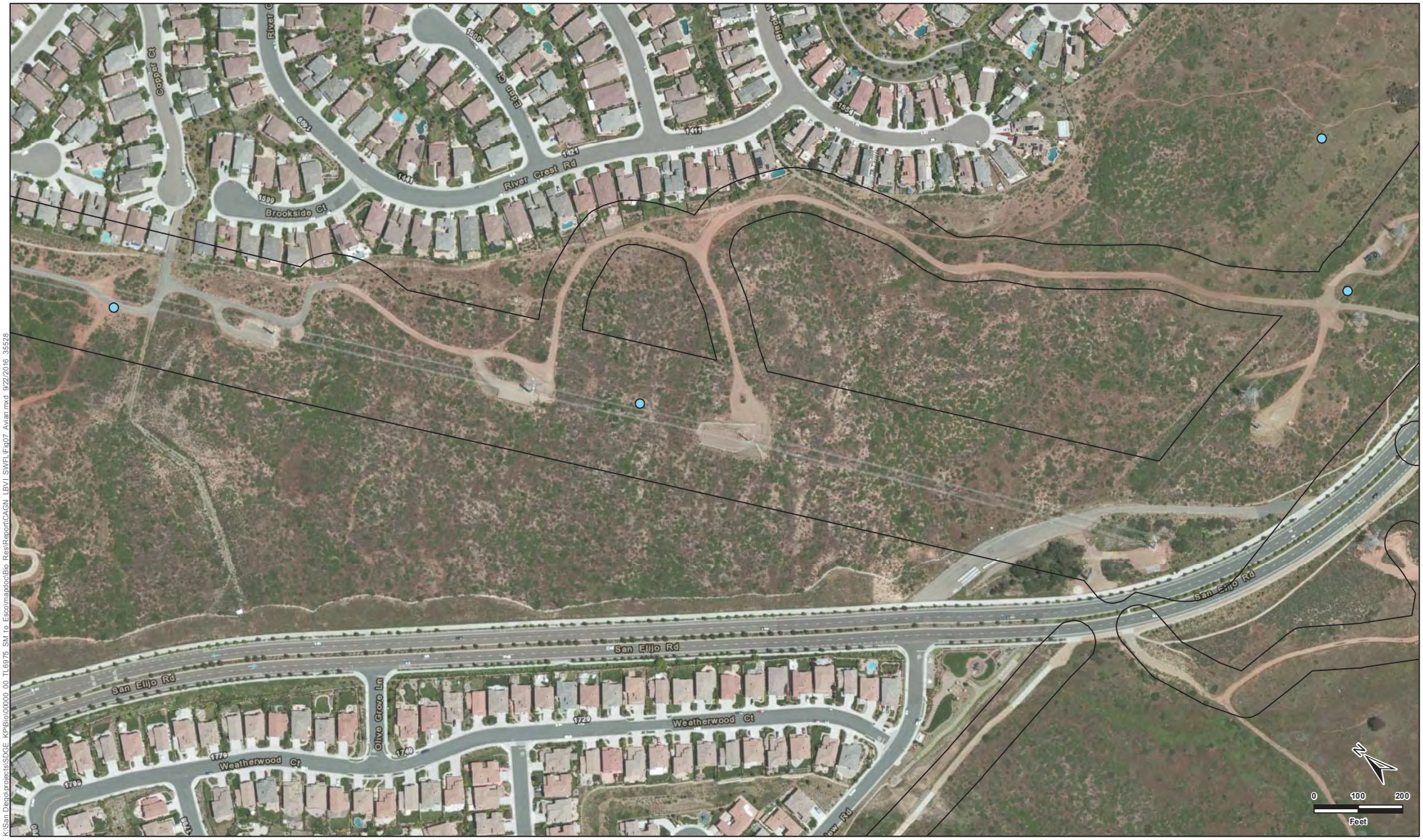
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Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

Figure 7-14
Avian Resources
SDG&E TL6975



Figure 7-15
Avian Resources
SDG&E TL6975



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Figure 7-16
Avian Resources
SDG&E TL6975

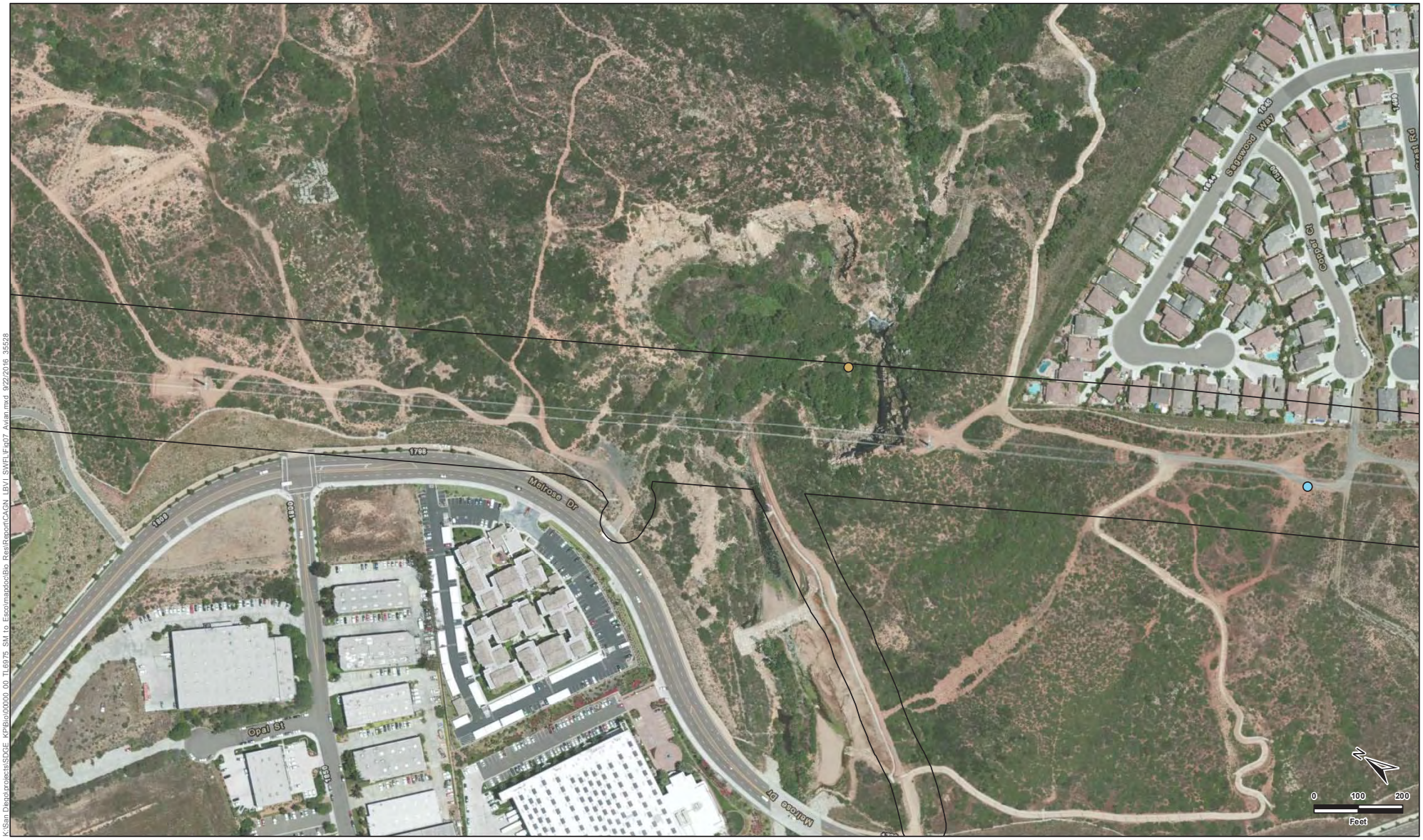


Figure 7-17
Avian Resources
SDG&E TL6975



Figure 7-18
Avian Resources
SDG&E TL6975



Figure 7-19
Avian Resources
SDG&E TL6975



Figure 7-20
Avian Resources
SDG&E TL6975



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Figure 7-21
Avian Resources
SDG&E TL6975



Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

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Figure 7-22
Avian Resources
SDG&E TL6975



Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

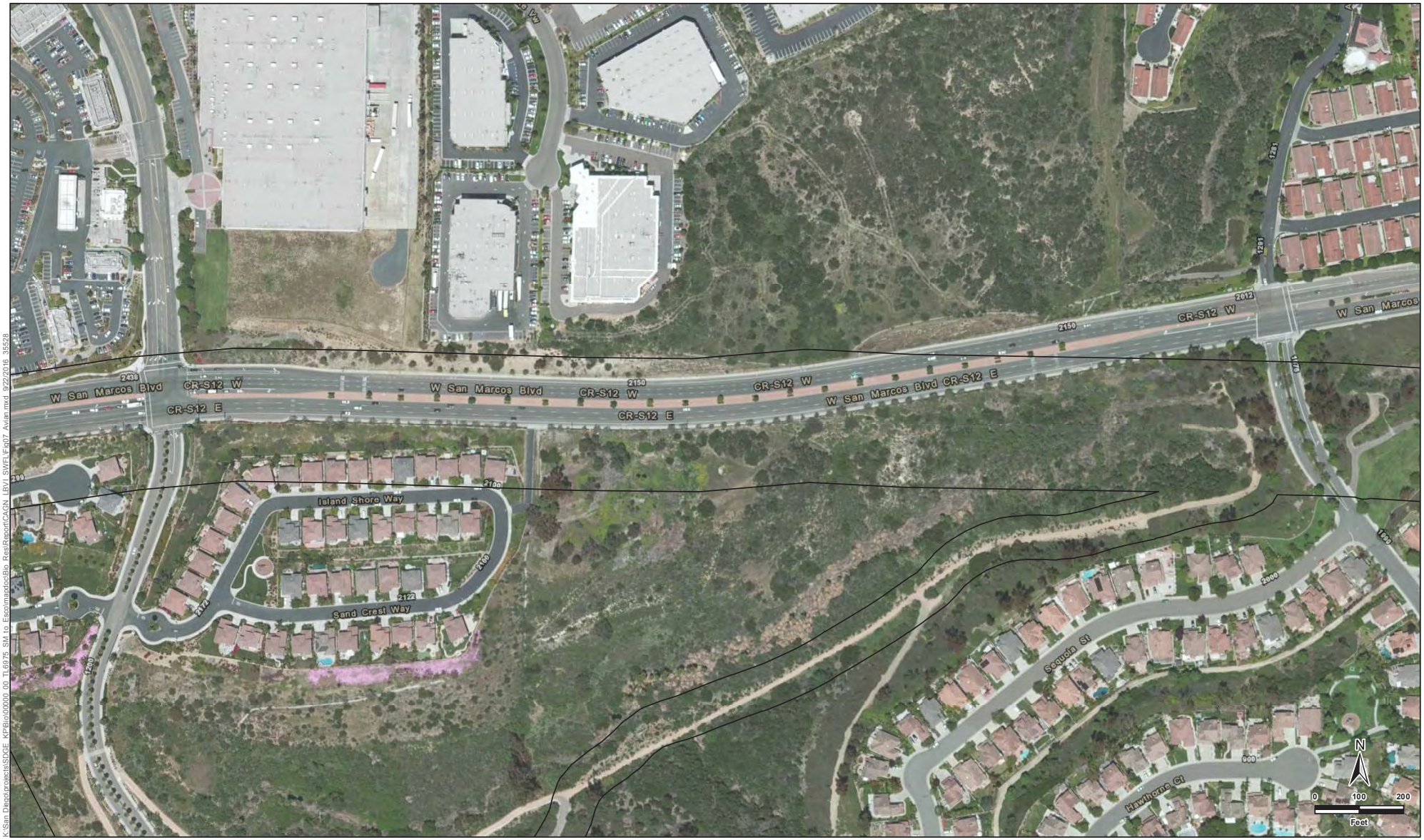
Figure 7-23
Avian Resources
SDG&E TL6975

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Figure 7-24
Avian Resources
SDG&E TL6975



Survey Area
American Kestrel (AMKE)
Common Raven (CORA)
Greater Roadrunner (GRRO)
Southern California Rufous-crowned Sparrow (RCSP)
Red-tailed Hawk (RTHA)
Yellow Warbler (YWAR)

Figure 7-25
Avian Resources
SDG&E TL6975

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Appendix C
Coastal California Gnatcatcher Territory Status and Observations

Appendix C. Coastal California Gnatcatcher Territory Status and Observations for TL 6975, San Diego County, California, in 2016.

Survey Area	Territory ID	Status	Map Number	Date	Comments
C	CAGN01	PAIR WITH FLEDGLINGS	5-7	4/14/2016	Responded to playback immediately. Downslope from road 30 m. Can hear second bird upslope drainage from road 20 m.
C	CAGN01	PAIR WITH FLEDGLINGS	5-7	5/12/2016	Responded to playback. Flew at me and scolded. Then quiet but nearby.
C	CAGN01	PAIR WITH FLEDGLINGS	5-7	6/8/2016	Pair with at least 3 recently fledged flegs. Nest within 1 m.
C	CAGN02	PAIR	5-7	4/14/2016	Can hear 2nd bird calling 100 m upslope, west different than east bird. Need to move both points on map.
C	CAGN02	PAIR	5-7	5/3/2016	Heard calling upslope 50 m.
C	CAGN02	PAIR	5-7	5/12/2016	Observed calling downslope 20 m from road.
C	CAGN03	UNDETERMINED	5-7	4/14/2016	Can hear at least 1 bird calling way upslope 100 m across slope. Same as first detected bird?
C	CAGN03	UNDETERMINED	5-7	5/3/2016	Calling.
C	CAGN04	PAIR	5-8	3/30/2016	Observed male calling; heard about 5 min after playback. Can hear second bird calling. *Sambucus mexicana* dominated, laurel sumac, *Artemisia californica,* agave. 3rd bird present?
C	CAGN04	PAIR	5-8	4/13/2016	Downslope 100 m calling.
C	CAGN04	PAIR	5-8	5/12/2016	Can hear scolding downslope 25 m; flew up to tower.
C	CAGN05	PAIR	5-7, 5-8	4/13/2016	Heard first. Pair together near road and down slope.
C	CAGN05	PAIR	5-7, 5-8	5/3/2016	Calling downslope 30 m.
C	CAGN06	PAIR	5-8	3/30/2016	Male responded to playback. Female also observed. Downslope. Lemonade berry, black sage, *Eriogonum fasiculatum*, dense.
C	CAGN07	UNDETERMINED	5-10	4/13/2016	Male scolding.
C	CAGN08	PAIR WITH NEST	5-10, 5-11	3/22/2016	Observed male go into black sage several times, likely building. Female nearby calling back. Upslope from road, and west of gate.
C	CAGN08	PAIR WITH NEST	5-10, 5-11	3/30/2016	Heard calling 30 m from detection last visit.
C	CAGN08	PAIR WITH NEST	5-10, 5-11	5/3/2016	Male responded to playback, female called several minutes later. Best likely upslope.
C	CAGN08	PAIR WITH NEST	5-10, 5-11	5/12/2016	Heard calling upslope from road.
C	CAGN08	PAIR WITH NEST	5-10, 5-11	6/8/2016	Responded to playback. Perched closeby calling.
D	CAGN09	PAIR	5-11, 5-12	4/1/2016	Heard when got out of car at gate. One near gate and one calling to west.
D	CAGN10	PAIR WITH NEST	5-12	5/10/2016	Nest.
D	CAGN10	PAIR WITH NEST	5-12	5/10/2016	Responded to playback. Called several times.

Appendix C. Coastal California Gnatcatcher Territory Status and Observations for TL 6975, San Diego County, California, in 2016.

Survey Area	Territory ID	Status	Map Number	Date	Comments
D	CAGN11	UNDETERMINED	5-12	4/1/2016	Heard calling in response to playback, south of first bird.
D	CAGN11	UNDETERMINED	5-12		Heard calling from opposite hill approximately 75 m away, move point.
D	CAGN12	UNDETERMINED	5-12, 5-13	3/22/2016	Heard calling 20 m between trails at junction.
D	CAGN13	UNDETERMINED	5-13	3/22/2016	Heard calling downslope 50 m.
D	CAGN13	UNDETERMINED	5-13	4/25/2016	Heard scolding, Western Scrub-Jay nearby.
D	CAGN14	PAIR	5-13	4/1/2016	Responded to playback after one call, popped up, then silent, circled around us, crossed access road then back to first spot, agitated call. No female
D	CAGN14	PAIR	5-13	4/12/2016	Pair.
D	CAGN14	PAIR	5-13	4/25/2016	Responded to playback. Silent flew in from north side of trail.
D	CAGN14	PAIR	5-13	5/10/2016	Responded to playback, silent. Then flew downslope west 75 m in gully. Called a few times.
D	CAGN15	PAIR	5-14	5/10/2016	Responded to playback. Observed pair flying downslope 75 m.
D	CAGN16	PAIR	5-14	4/1/2016	Calling near trail.
D	CAGN16	PAIR	5-14	5/10/2016	Foraging silent. Returned from long flight.
E	CAGN17	UNDETERMINED	5-15	4/1/2016	Observed silent female foraging along trail. No male detected.
E	CAGN18	PAIR WITH FLEDGLINGS	5-16	4/27/2016	Responded to playback.
E	CAGN18	PAIR WITH FLEDGLINGS	5-16	5/9/2016	Pair feeding at least 3 flegs along road.
E	CAGN18	PAIR WITH FLEDGLINGS	5-16	5/9/2016	Female brooding 4 2-3 day old nestlings. Male closeby feeding. Nest in Black sage, 0.75 m. Look for flag. 278 degrees, 12 m.
E	CAGN18	PAIR WITH FLEDGLINGS	5-16	6/7/2016	Observed silent female.
E	CAGN19	PAIR WITH FLEDGLINGS	5-15, 5-16	5/9/2016	Responded to playback, quiet.
E	CAGN19	PAIR WITH FLEDGLINGS	5-15, 5-16	6/7/2016	Pair with at least 2 flegs. Flegs flying well, begging heard.
E	CAGN20	PAIR	5-16	5/9/2016	Responded to playback, quiet. Foraging then gone. Nest near here?
E	CAGN20	PAIR	5-16	6/7/2016	Responded to playback. Fresh plumage. Foraging nearby.
E	CAGN21	PAIR WITH NEST	5-16	3/17/2016	Pair foraging together, male observed calling occasionally. Full cap.

Appendix C. Coastal California Gnatcatcher Territory Status and Observations for TL 6975, San Diego County, California, in 2016.

Survey Area	Territory ID	Status	Map Number	Date	Comments
E	CAGN21	PAIR WITH NEST	5-16	4/1/2016	Observed male with nesting mat, went into *Sambucus mexicana* to nest, dropped mat here, along trail. No female detected.
E	CAGN21	PAIR WITH NEST	5-16	6/7/2016	Responded to playback. Foraging, called occasionally.
E	CAGN22	UNDETERMINED	5-16	4/13/2016	Unknown.
E	CAGN22	UNDETERMINED	5-16	4/27/2016	Responded to playback then back downslope.
E	CAGN22	UNDETERMINED	5-16	5/9/2016	
E	CAGN23	PAIR	5-16	4/27/2016	Responded to playback, saw male, heard female.
E	CAGN23	PAIR	5-16	6/7/2016	Observed calling above coyote.
E	CAGN24	PAIR	5-16	6/7/2016	Male responded to playback. Flew to female.
E	CAGN25	PAIR	5-17	5/9/2016	Responded to playback, silent. 5 min later, observed with female. Together foraging. No flegs detected. Could be building.
E	CAGN26	UNDETERMINED	5-17	4/13/2016	
D	CAGN27	PAIR	5-16	3/17/2016	Along trail. Calling to one another moving around.
E	CAGN28	PAIR	5-17	6/7/2016	Responded to playback. First time detected. 2nd bird calling upslope.
E	CAGN29	UNDETERMINED	5-17, 5-18	4/16/2016	Responded to playback, calling for 2 min, flew around me. Then flew north of trail.
E	CAGN29	UNDETERMINED	5-17, 5-18	5/9/2016	Heard calling from transmission lines to south. Heard 2nd time from trail to east.
E	CAGN30	UNDETERMINED	5-18	6/7/2016	Responded to playback in bowl.
E	CAGN30	UNDETERMINED	5-18		Heard calling in bowl on northwest slope. Blue-Gray Gnatcatcher nearby.
F	CAGN31	PAIR WITH NESTLINGS	5-20	3/29/2016	Responded to tape, silent.
F	CAGN31	PAIR WITH NESTLINGS	5-20	5/10/2016	Observed male feeding 4 nestlings hatched today. Female also feeding. Nest 1.5 ft up in *Artemisia californica*. Off trail 10 m.
F	CAGN33	UNDETERMINED	5-21	3/29/2016	Heard calling. Did not respond to tape.
C	CAGN34	PAIR	5-9	3/30/2016	Male responded to tape. Upslope. Flew across canyon. Calling occasionally.
C	CAGN34	PAIR	5-9	4/13/2016	Responded to playback. Female observed foraging upslope of road.
C	CAGN34	PAIR	5-9	5/3/2016	Heard calling.
C	CAGN34	PAIR	5-9	6/8/2016	Heard call once in response to playback. Then silent.

Appendix D
SWFL Survey Form

Willow Flycatcher (WIFL) Survey and Detection Form (revised April, 2010)

Site Name: **SDG&E TL6975** State: **California** County: **San Diego**

USGS Quad Name: **San Marcos** Elevation: **150** (meters)

Creek, River, or Lake Name: **San Marcos Creek**

Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? ***Yes*** **X** ***No*** ____

Survey Coordinates: Start: E **33.10292** N **-117.21255** UTM Datum: ____ (See instructions)

Stop: E **33.10384** N **-117.21337** UTM Zone: ____

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

*****Fill in additional site information on back of this page*****

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, *Diorhabda* spp.]). If *Diorhabda* found, contact USFWS and State WIFL coordinator.	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Survey # 1	Date:						# Birds	Sex	UTM E	UTM N
Observer(s):	5/21/2016									
Kimberly Ferree	Start: 10:05									
	Stop: 11:00	0	0	0	N					
	Total hrs: 1.0									
Survey # 2	Date:						# Birds	Sex	UTM E	UTM N
Observer(s):	6/1/2016									
Kimberly Ferree	Start: 7:30									
	Stop: 8:15	0	0	0	N					
	Total hrs: 0.8									
Survey # 3	Date:						# Birds	Sex	UTM E	UTM N
Observer(s):	6/13/2016									
Kimberly Ferree	Start: 6:15									
	Stop: 7:15	0	0	0	N					
	Total hrs: 1.0									
Survey # 4	Date:						# Birds	Sex	UTM E	UTM N
Observer(s):	6/24/2016									
Kimberly Ferree	Start: 10:40									
	Stop: 11:30	0	0	0	N					
	Total hrs: 1.0									
Survey # 5	Date:						# Birds	Sex	UTM E	UTM N
Observer(s):	7/5/2016									
Kimberly Ferree	Start: 5:55									
	Stop: 6:55	0	0	0	N					
	Total hrs: 1.0									
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total survey hrs: 4.8		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any WIFLs color-banded? Yes ____ No **x** If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		0	0	0	0					

Reporting Individual: **Kimberly Ferree** Date Report Completed: **8/31/2016**

US Fish & Wildlife Service Permit #: **TE-122632** State Wildlife Agency Permit #: **SC-8808**

Submit ***form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.***

Fill in the following information completely. Submit form by September 1 st. Retain a copy for your records.

Reporting Individual **Kimberly Ferree** Phone # **7605791454**

Affiliation **ICF International** E-mail kimberly.ferree@gmail.com, ki

Site Name **SDG&E TL6975** Date report Completed **8/31/2016**

Was this site surveyed in a previous year? Yes____ No____ Unknown __X__

Did you verify that this site name is consistent with that used in previous yrs? Yes ____ No **X** Not Applicable ____

If name is different, what name(s) was used in the past? ____

If site was surveyed last year, did you survey the same general area this year? Yes ____ No ____ If no, summarize below.

Did you survey the same general area during each visit to this site this year? Yes **X** No ____ If no, summarize below.

Management Authority for Survey Area: Federal ____ Municipal/County **X** State **CA** Tribal ____ Private ____

Name of Management Entity or Owner (e.g., Tonto National Forest) **City of San Marcos**

Length of area surveyed: **1.0** (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

x Native broadleaf plants (entirely or almost entirely, > 90% native)

____ Mixed native and exotic plants (mostly native, 50 - 90% native)

____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name.

Salix lasiolepis,Salix Gooddingii, Populus spp., Bacharis salisifolia

Average height of canopy (Do not include a range): **8** (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections;
2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests;
3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features. Attach additional sheets if necessary.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Attach additional sheets if necessary

Appendix C

Jurisdictional Delineation Report for the SDG&E TL 6975 Escondido to San Marcos New 69 kV Project

TL 6975 Escondido To San Marcos New 69 kV Project, San Diego County, California

JURISDICTIONAL DELINEATION REPORT

Prepared for:

San Diego Gas & Electric
8315 Century Park Court
San Diego, CA 92123

Prepared by:

ICF
525 B Street, Suite 1700
San Diego, California 92101

August 2017

SDG&E. 2017. Jurisdictional Delineation Report for the SDG&E TL 6975 Escondido to San Marcos New 69 kV Project. August 2017.

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Acronyms and Abbreviations

AMSL	above mean sea level
BMPs	best management practices
CDFW	California Department of Fish and Game
CWA	Clean Water Act
DDE	dichlorodiphenyldichloroethylene
FAC	facultative
FACW	facultative wetland
FEMA	Federal Emergency Management Agency
GPS	global positioning systems
HA	hydrologic area
HAS	hydrologic subarea
kV	kilovolt
NHD	National Hydrography Dataset
NI	no indicator
NO	no occurrence
NRCS	Natural Resources Conservation Service
NWI	National Wetland Inventory
OBL	obligate
OHWM	Ordinary High Water Mark
Porter- Cologne Act	Porter-Cologne Water Quality Control Act
Project Area	TL 6975 Escondido to San Marcos New 69 kV Project
PSA	project survey area
RWQCB	Regional Water Quality Control Board
SDG&E	San Diego Gas and Electric
SSURGO	Soil Survey Geographic
SWRCB	State Water Resources Control Board
USACE.	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey

1. INTRODUCTION

This report discusses regulatory methods and provides the results of a formal delineation completed for the San Diego Gas and Electric (SDG&E) TL 6975 Escondido to San Marcos New 69 kilovolt (kV) Project (Proposed Project) in 2017. The report identifies the extent of federal and state jurisdiction within the project survey area (PSA) pursuant to Sections 401 and 404 of the Clean Water Act (CWA) as well as Section 13260 of the Porter-Cologne Water Quality Control Act (Porter-Cologne Act) and Section 1602 of the California Fish and Game Code.

Section 404 of the CWA covers waters of the United States as well as federal wetlands and is regulated by the U.S. Army Corps of Engineers (USACE). Under Section 401 of the CWA, the Regional Water Quality Control Board (RWQCB) regulates at the state level all activities that are regulated at the federal level by the USACE. The RWQCB or State Water Resources Control Board (SWRCB) may also regulate activities affecting non-federal waters and wetlands (e.g., isolated features) under the Porter-Cologne Act. Section 1602 of the California Fish and Game Code is regulated by the California Department of Fish and Wildlife (CDFW) and covers aquatic features, which include lakes or streambeds with a defined bed and bank plus any adjacent riparian vegetation.

The information and results presented herein document the investigation, best professional judgment, and conclusions of ICF. It is correct and complete to the best of its author's knowledge. However, all jurisdictional delineations should be considered preliminary until reviewed and approved/determined by the regulatory agencies.

1.1 PROJECT DESCRIPTION

The entire SDG&E TL 6975 Escondido to San Marcos New 69 kV Proposed Project was assessed for potential jurisdictional water.

1.2 PROJECT LOCATION

The Proposed Project is located in the cities of Escondido and San Marcos, San Diego County, California (Figure 1; Regional Vicinity Map, all figures are included as Appendix A: Figures). The Proposed Project survey area occurs within the U.S. Geological Survey (USGS) San Marcos, Rancho Santa Fe, and Escondido 7.5-minute topographical quadrangle maps (amended 2012). The center coordinates for the Proposed Project in decimal degree format (NAD 83) are 33.094°N and -117.1871°W. A project survey area (PSA) was established for the Proposed Project which consisted of a 300-foot survey corridor of the transmission centerline and 40-foot survey corridor of the access roads.

2. METHODOLOGY

2.1 PROJECT RESEARCH

Prior to the field visit, a 100-foot-scale (1 inch = 100 feet) aerial photograph of the site was obtained and compared with the USGS 7.5-minute topographic San Marcos, Rancho Santa Fe, and Escondido (USGS 2012) quadrangle maps and aerial imagery to observe vegetation types, topographic changes, and visible drainage patterns associated with the PSA. In addition, the National Wetland Inventory (NWI) (USFWS 2012) was reviewed to identify mapped wetlands that occur within the PSA. Maps depicting the PSA in relation to the Federal Emergency Management Agency (FEMA) 100-year flood zone, national hydrography dataset (NHD) drainages and watersheds are provided in Figures 3 (FEMA 100-Year Floodplain Map) and 4 (Watershed Map) respectively.

2.2 FIELD INVESTIGATION

An informal jurisdictional delineation was completed in the PSA by ICF biologists Lanika Cervantes, Amanda Parra, and Marissa Maggio in 2015. Prior to conducting the 2017 formal delineation, for this current effort, the results of the previous delineations were re-verified; formal wetland data forms were completed; new potential staging yards were assessed. Table 1, Survey Personnel and Dates, below provides the dates of the 2017 surveys.

Table 1: Survey Personnel and Dates

Date	Personnel
02/17/2017	Brett Bowen and Lance Woolley
03/16/2017	Brett Bowen and Lance Woolley
04/13/2017	Brett Bowen
04/24/2017	Brett Bowen and Lanika Cervantes

The PSA consisted of the entire SDG&E TL 6975 Escondido to San Marcos project area. Features within the 300-foot survey corridor of the transmission centerline and 40-foot survey corridor of the access roads were revaluated for potential state and federal jurisdiction. In 2015, the following information was recorded for each feature: feature type (e.g., ephemeral stream, swale, erosional feature, wetland, etc.), jurisdictional status, jurisdictional extent, ordinary high water mark (OHWM) indicators observed, and proximity to proposed project infrastructure. This information is provided in Table 1, Aquatic Features Evaluated within the PSA, in Appendix D: Summary Jurisdictional Delineation Table, and Table 2 Appendix E: Summary Constraints Table. The survey was conducted on foot, and jurisdictional limits were recorded using high-resolution aerial photographs (1 inch=100 feet) and sub-meter accuracy Trimble global positioning systems (GPS) unit. Existing conditions were documented as field notes and site photographs (Photographs included as Appendix B: Site Photographs, March 2017).

2.2.1 USACE Jurisdiction

Potential waters of the U.S. and wetlands were delineated using methods established in the Wetland Delineation Manual (Environmental Laboratory 1987), the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (USACE 2008a), and A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (USACE 2008b). Non-wetland waters were delineated based on the presence of OHWM indicators. The following three criteria must be fulfilled in order to classify an area as a wetland water: (1) a predominance of hydrophytic vegetation, (2) the presence of hydric soils, and (3) the presence of wetland hydrology. Details of the application of these techniques are described below.

- **Hydrophytic Vegetation:** The hydrophytic vegetation criterion is satisfied at a location if greater than 50 percent of all the dominant species present within the vegetation unit have a wetland indicator status of obligate (OBL), facultative wetland (FACW), or facultative (FAC) (Environmental Laboratory 1987). An OBL indicator status refers to plants that almost always occur in wetlands under natural conditions. A FACW indicator status refers to plants that usually occur in wetlands but are occasionally found elsewhere. A FAC indicator status refers to plants that are equally likely to occur in wetlands or elsewhere. An NI (no indicator) status designates that insufficient information was available to determine an indicator status. An NO (no occurrence) status indicates that the species does not occur in the region; when a plant with an NO status is found within a region, it usually indicates that the plant is ornamental. The wetland indicator status used for this report follows the *National Wetland Plant List* (Lichvar et al. 2016).

- **Hydric Soils:** The definition of a hydric soil is a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (USDA/NRCS 1994). This determination is made based on various field indicators detailed in the *Arid West Supplement* and the *Field Indicators of Hydric Soils in the United States (Version 8.0)* (USDA/NRCS 2016).

- **Wetland Hydrology:** Wetland hydrology is determined using indicators of inundation or saturation (flooding, ponding, or tidally influenced) detailed in the *Wetland Delineation Manual* (Environmental Laboratory 1987) and the *Arid West Supplement* (USACE 2008a).

Within the PSA, soil pits were dug to examine soil color and texture and determine the wetland boundary. Wetland Determination Forms are included as Appendix C: Wetland Determination Forms. A paired-pit technique was used (one sample point with wetland results paired with one sample point with non-wetland results, used to identify a wetland boundary).

2.2.2 RWQCB/SWRCB Jurisdiction

Evaluation of state jurisdiction followed guidance from Section 401 of the CWA and typically follows the same jurisdictional areas as USACE. In addition, the PSA was reviewed for resources potentially regulated under Porter-Cologne Act (i.e., isolated features). Isolated vernal

pools, isolated wetlands, or other aquatic features not normally subject to federal regulation did not occur within the PSA: no further evaluation was necessary.

2.2.3 CDFW Jurisdiction

CDFW jurisdiction typically includes water features with a defined bed and bank. Evaluation of potentially jurisdictional areas followed the guidance of standard practices by CDFW personnel. Briefly, CDFW jurisdiction was delineated by measuring outer width and length boundaries of potentially jurisdictional areas (lakes or streambeds), consisting of the greater of either the top of bank measurement or the extent of associated riparian or wetland vegetation.

3. ENVIRONMENTAL SETTING

The following section describes the topography and land use, hydrology, and soils associated with the PSA.

3.1 TOPOGRAPHY & LAND USE

The PSA is in the coastal hills of San Diego County's northern valley. It traverses through developed, residential, and naturally vegetated areas through steep slopes, canyons and drainages. Surrounding land uses consist of residential, commercial, recreational, and undeveloped. TL 6975 ranges in elevation from approximately 370 feet above mean sea level (AMSL) to the west at feature 004 approximately 1,200 feet AMSL to the east adjacent to feature 085.

3.1.1 Precipitation

Based on the San Miguel weather station located 0.5 mile northeast of the PSA, total estimated precipitation within the last year was approximately 16.93 inches (Table 2, Rainfall Data Summary for the Project Survey Area [in inches]).

Table 2: Rainfall Data Summary for the Project Survey Area (in inches)

	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Total	0.23	0	0	0	.8	0.03	1.33	4.43	6.61	5.72	0.19	0
*Data source: Western Regional Climate Control Center, http://www.raws.dri.edu ; Accessed April 2017. Located approximately 8 miles northwest from the center of the PSA.												

3.2 WATERSHED

The project area is located within the USGS San Marcos Creek and Escondido Creek hydrologic unit code (HUC 10: 1807030305 and 1807030304) (Figure 4, Watershed Map). The project area is also within the Carlsbad HU, San Marcos and Escondido Creek hydrologic area (HA 904.50 and 904.60); and San Elijo and Escondido hydrologic subarea (HSA 904.61 and 904.62).

General information on this major watershed is provided below.

3.2.1 Carlsbad

The Carlsbad HU encompasses 210 square miles, and is drained by Buena Vista, Agua Hedionda, San Marcos, and Escondido Creeks and their tributaries, which eventually drain into the Pacific Ocean. The dominant land uses in the Carlsbad watershed are urban, open space, agriculture, undeveloped, and wildlife sanctuaries.

Two-thirds of the land area categorized as urban is composed of residential communities, occupied by approximately 250,000 people. The most important watershed issues for Carlsbad

HU are related to the protection of municipal water supplies and the protection and restoration of sensitive wetland and wildlife habitats (Project Clean Water 2017).

Of the delineated features within the PSA, none is considered to be a 303(d) listed waterbody; however, receiving waters upstream, including the San Luis Rey-Escondido watershed (Dichlorodiphenyldichloroethylene [DDE], Phosphorus, Sediment Toxicity, Selenium, Ammonia, and Nutrients), are listed.

3.3 SOILS

3.3.1 Soil Series

The Natural Resources Conservation Service (NRCS) has mapped the soil series: Altamont, Cieneba, Escondido, Exchequer, Fallbrook, Friant, Gaviota, Grangeville, Gravel Pits, Huerhuero, Las Flores, Las Posas, Placentia, Ramona, Redding, Riverwash, San Miguel, Tujunga, Visalia, Vista, and Wyman, as occurring within the delineated jurisdictional waters based on the Soil Survey Geographic (SSURGO) database (USDA/NRCS 2006) (Figure 5, Soils Map). No soils within the PSA are identified as hydric soils for San Diego County (USDA/NRCS 2011).

A description of this soil series included within the SSURGO mapping units is provided below based on the official soil descriptions provided by USDA (USDA/NRCS 2012):

3.3.1.1 Altamont

The Altamont soil series consists of well-drained, deep clays derived from fine-grained sandstone and shale. Altamont soils are extensive in central and southern Coast Ranges of California and the Sutter Buttes. The soils occur on uplands, hills, and mountains at elevations of 100 to 4,480 feet, with slopes of 0 to 75 percent. The typical soil texture is that of clay, clay loam, or silty clay, with medium to very high runoff after the soil cracks swell shut, and slow permeability.

3.3.1.2 Cieneba

The Cieneba soil series consists of somewhat excessively drained soils, from very shallow to shallow loams derived from weathered granite rock. Cieneba soils are extensive throughout the Coastal mountain ranges from central and southern California and the foothills of the Sierra Nevada and occur on hills and mountains at elevations of 150 to 1,220 feet, with slopes of 9 to 85 percent. The typical soil texture is that of loam with low to high runoff and moderately rapid permeability in the soil and much slower in the weathered bedrock.

3.3.1.3 Escondido

The Escondido series consists of well-drained, moderately deep, very fine sandy loams. Escondido soils are extensive, mainly occurring in southern California in San Diego and Western Riverside Counties and occur on gently rolling to hilly topography in foothills at elevations of

400 to 2,800 feet. The typical soil texture is that of very fine sandy loams with medium runoff and moderate permeability.

3.3.1.4 Exchequer

The Exchequer soil series consists of excessively drained soils, shallow rocky silt loams that are derived from weathered hard andesitic breccia, schist, and metamorphosed volcanic rocks. Exchequer soils occur on undulating to steep uplands at elevations of 400 to 2,000 feet. The typical soil texture is that of rocky silt loams with medium to rapid runoff and moderate permeability. Exchequer soils are extensive and occur in the lower foothills of the western Sierra Nevada of central and north-central California and coastal hills of southern California.

3.3.1.5 Fallbrook

The Fallbrook soil series consists of well-drained soils, deep sandy loam soils that are derived from weathered granite rocks. Fallbrook soils are extensive and occur on the foothills on the east side of the San Joaquin valley and foothills in the west part of southern California. The typical soil texture is that of sandy loam with medium to very rapid runoff and moderate slow permeability. Fallbrook soils occur on gently rolling to very steep round hills at elevations 200 to 3,000 feet or as high as 3,500 feet on south-facing slopes, and have slopes of 5 to 75 percent.

3.3.1.6 Friant

The Friant soil series consists of well-drained soils: shallow, rocky, fine, sandy loam that is derived from weathered mica schist, quartz schist, and gneiss. Friant soils are moderately extensive and occur on the foothills along the east side of the San Joaquin Valley and the southwestern part of California. The typical soil texture is that of loam, sandy loam, or fine sandy loam with medium to very rapid runoff and moderately rapid permeability. Friant soils occur on hilly and mountainous uplands at elevations of 500 to 3,500 feet and have slopes of 9 to 75 percent.

3.3.1.7 Gaviota

The Gaviota soil series consists of well- and excessively drained soils, very shallow or shallow loam that is derived from weathered hard sandstone or meta-sandstone. Gaviota soils are extensive and occur mostly in the California Coast Ranges. The soil texture throughout ranges from fine sandy loam to gravelly fine sandy loam with very low to very high runoff and moderately rapid permeability. Gaviota soils occur on hills and mountains at elevations of 200 to 4,400 feet and have slopes of 2 to 100 percent.

3.3.1.8 Grangeville

The Grangeville soil series consists of somewhat poorly drained soils, very deep loam that is derived from moderate coarse textured alluvium, dominantly from granite rock sources. Grangville soils occur on the east side of the San Joaquin Valley and intermountain valleys in the western part of southern California. The typical soil texture is that of fine sandy loam with

negligible to very low runoff and rapid permeability with moderate permeability in saline-sodic phases. Grangeville soils occur on alluvial fans and floodplains at elevation of 0 to 1800 feet and have slopes ranging from 0 to 2 percent.

3.3.1.9 Gravel Pits

There are no specific descriptions for this soil mapping unit provided by NRCS Soil Survey. The gravel pit soil series occurs in a quarried area along San Marcos Creek adjacent to feature 49.

3.3.1.10 Huerhuero

The Huerhuero soil series consists of moderately well- to somewhat poorly drained loam. Huerhuero soils are moderately extensive and occur along the central and southern Coast Range valleys in California. The soil texture is that of loam and clay loam with slow to medium runoff and very slow permeability. Huerhuero soils occur on nearly level to strongly sloping alluvial fans and terraces at elevations of less than 1,100 feet and have slopes that are typically less than 3 percent.

3.3.1.11 Las Flores

The Las Flores soil series consists of moderately well-drained loamy sand. Las Flores soils are moderately extensive and occur in the coastal plains of southern California. The typical soil texture is that of loamy sand with medium to rapid runoff and very slow permeability. Las Flores soils occur on gently to strongly sloping areas and on marine terraces at elevations of less than 700 feet having slopes.

3.3.1.12 Las Posas

The Las Posas soil series consists of well-drained, moderately deep, fine loam derived from basic ingenious rock. Las Posas soils are moderately extensive and occur on the foothills of southern California and the Sierra Nevada. The typical soil texture is that of fine sandy loam with medium to rapid runoff and slow permeability. Las Posas soils occur on mountainous uplands with elevations from 200 to 3,000 feet having slopes of 5 to 50 percent.

3.3.1.13 Placentia

The Placentia soil series consists of well or moderately well-drained sandy loam. Placentia soils are extensive and occur mostly in Salinas Valley and coastal parts of southern California. The typical soil texture is that of sandy loam with slow to rapid runoff and very slow permeability. Placentia soils occur at nearly level to moderately sloping areas and are on fans and terraces at elevations of 50 to 2,500 feet.

3.3.1.14 Ramona

The Ramona soil series consists of well-drained fine sandy loam. Ramona soils are extensive and occur in the interior valleys of central and the western part of California. The typical soil texture is that of fine sandy loam with slow to rapid runoff and moderately slow permeability.

Ramona soils occur at nearly level to moderately steep areas and are on terraces and fans at elevations of 250 to 3,500 feet.

3.3.1.15 Redding

The Redding soil series consists of well- or moderately well- drained, moderately deep to duripan gravelly loam derived from alluvium from mixed sources. Redding soils are extensive and occur in high terraces along the northern and eastern edge of the Central Valley in California. The typical soil texture is that of gravelly loam with very low to high runoff, except with the local ponding in intermound areas, and very slow to slow permeability. Redding soils occur at nearly level or dissected and undulating to hilly high terraces with elevations of 40 to 2,000 feet with slopes of 0 to 30 percent. Vernal pools with relief that is greater than the intermound are common in areas that have slopes of 0 to 3 percent.

3.3.1.16 Riverwash

The Riverwash soil series consists of an excessively drained soil. The typical soil texture is that of sandy, gravelly, or cobbly soil with rapid permeability. Riverwash soils occur in intermittent streams and have barren areas with riparian habitats along the banks.

3.3.1.17 San Miguel

The San Miguel soil series consists of well-drained, shallow to moderately deep silt loams that have a clay subsoil. San Miguel soils occur in mountainous areas at elevations of 700 to 3,300 feet, with slopes of 9 to 30 percent. The typical soil texture is that of loams and clay with medium to very rapid runoff and very slow permeability. San Miguel soils have a moderate extent and are located on Southern California mountains.

3.3.1.18 Tujunga

The Tujunga soil series consists of somewhat excessively drained, very deep sand that are derived from alluvium sourced from granite. The typical soil texture is that of sand with negligible to low runoff and high saturated hydraulic conductivity. Tujunga soils are extensive and occur in the Central and southern coastal plains and valleys. Tujunga soils occur on alluvial fans and floodplains, including urban areas, with elevations of 6 to 2,000 feet with slopes ranging from 0 to 12 percent.

3.3.1.19 Visalia

The Visalia soil series consists of moderately well drained, very deep sandy loams that are derived from granitic alluvium. The typical soil texture is that of sandy loam with very low runoff. Visalia soils occur on alluvial fans and flood plains with elevations of 400 to 2,000 feet with slopes ranging from 0 to 15 percent.

3.3.1.20 Vista

The Vista soils series consists of well-drained, moderately deep soils that are derived from decomposed granite. The typical soil texture is that of coarse sandy loam with slow to rapid runoff and moderately rapid permeability. Vista soils are extensive and occur in Southern California mountains and in the Sierra Nevada foothills. Vista soils occur on hilly slopes with elevations of 400 to 3,900 feet in southern California and at less than 3,500 feet in elevation in central California. Slopes for Vista soils ranges from 2 to 75 percent.

3.3.1.21 Wyman

The Wyman soils consists of well-drained, deep soils that are derived from andesitic and basaltic rocks. The typical soil texture is that of loam with slow to medium runoff and moderately slow permeability. Wyman soils are moderately extensive and occur mostly along the eastern side of the San Joaquin Valley and small intermountain valleys of Southern California. Wyman soils occur on nearly level to strongly sloping terraces and alluvial fans with elevations of 300 to 2,500 feet and have slopes of 0 to 15 percent.

4. JURISDICTIONAL DELINEATION RESULTS

The following chapter describes the delineated features and expected jurisdictional status within the PSA. Detailed information, including maps of the delineated features within the PSA, Wetland Determination Forms, and photographs are provided in the following appendices:

- Appendix A: Figures, contains figures.
- Appendix B: Site Photographs, March 2017, contains photographs
- Appendix C: Wetland Determination Forms, contains Wetland Delineation Forms.
- Appendix D: Summary Jurisdiction Delineation Table, contains Jurisdictional Delineation Table
- Appendix E: Summary Constraints Table, contains Summary Constraints Table

4.1 DELINEATION RESULTS

A total of 157 features within the PSA were identified and evaluated for potential state and federal jurisdiction pursuant to the regulations described above. These features generally fell into one of seven categories. Four are considered potentially jurisdictional: wetlands and riparian habitats, ephemeral streams, intermittent streams, perennial streams. Three are considered non-jurisdictional: swales, erosional features, and concrete v-ditches constructed in uplands as best management practices (BMPs). Appendix D: Summary Jurisdictional Delineation Table, provides a brief description of each feature evaluated within the PSA.

4.1.1 Potentially Jurisdictional Resources

4.1.1.1 Wetlands/Riparian Vegetation

Wetlands and/or riparian vegetation was identified within PSA.

Wetlands were present within Feature ID Nos. 002, 004, 007, 010, 018, 020, 035, 042, 049, 060, 066, 070, 088, 090, 092, 094, 103, 104, 111, 113, 122, 123, 124, 126, 127, and 128. Wetlands vegetation was predominantly associated with intermittent and perennial streams and was dominated by black, red, and arroyo willows (*Salix* sp.), mulefat (*Baccharis salicifolia*), cattail (*Typha* sp.), and bulrush (*Schoenoplectus* sp.). Some wetlands were inundated at the time of the site visit.

CDFW riparian areas included the wetland features above as well as Feature ID Nos. 067 and 091, which occurred within ephemeral streams and supported patches of mulefat, tamarisk (*Tamarix* sp.), and/or coast live oaks (*Quercus agrifolia*).

4.1.1.2 Ephemeral Streams

A total of 59 ephemeral streams were identified within the PSA. These features had clear bed and bank, as well as multiple OHWM indicators. OHWM indicators commonly included: shelving, changes in particle size, water staining, changes in vegetation cover/species, and changes in slope from the active floodplain to the low terrace. The ephemeral streams in the PSA were variable in size and ranged from one to 15 feet (ft) wide measured from bank to bank.

4.1.1.3 Intermittent Streams

A total of four intermittent stream were identified within the PSA. The majority of the intermittent streams identified throughout the project alignment were associated with tributaries to San Marcos Creek and/or Escondido Creek. These features often supported riparian vegetation and wetlands and were associated with NHD streamlines. These features had a clearly distinguished bed and bank and exhibited evidence of OHWM indicators such as shelving, sediment sorting, destruction of terrestrial vegetation, and water staining. Intermittent streams were typically identified in conjunction with perennial streams and were variable in size, ranging from nine to 92 ft measured from bank to bank.

4.1.1.4 Perennial Streams

Twelve perennial streams were identified within the PSA. Perennial streams were associated with San Marcos Creek and associated unnamed tributaries. Each perennial stream had contained flowing waters, evidence of inundation, and always supported wetlands and riparian vegetation.

4.1.2 Non-Jurisdictional Resources

4.1.2.1 Swales

All swales surveyed exhibited bowl-like structure generated by surface run-off with no continuous bed and bank and no OHWM. Most abated at the access road and did not continue downslope. These features are not potentially jurisdictional and can be graded during road improvement activities. A permit is not required for discharges of fill associated with road improvement activities; however, proper BMPs shall be implemented to prevent impacts such as erosion and sedimentation to downstream receiving waters.

4.1.2.2 BMP Concrete Channels

Concrete v-ditches constructed wholly in the uplands (i.e., did not replace a natural feature) to serve as hillside BMPs to unnaturally convey flows from natural or human-made slopes were not considered potentially jurisdictional. Although some ditches exhibited water staining, these features were constructed features associated with an adjacent development to control and direct run-off flows in highly urbanized areas. A total of 64 non-jurisdictional concrete v-ditches were identified within the PSA.

4.1.2.3 Erosional Features

Erosional features were typically rills created by water run-off flowing from existing access roads or other existing disturbance. These features did not exhibit OHWM indicators or a defined bed and bank. These features therefore are not potentially jurisdictional and can be graded during road improvement activities. A permit is not required for discharges of fill associated with construction activities within non-jurisdictional resources; however, proper BMPs shall be implemented to prevent potential impacts to downstream receiving waters from erosion or sedimentation.

4.2 CONCLUSION

Table 3, Existing Jurisdictional Delineation Features Summary, contains jurisdictional summaries for potentially jurisdictional resources. All delineated jurisdictional features are either San Marcos Creek or unnamed tributaries to San Marcos Creek and Escondido Creek. Both are relatively permanent waterbodies, which eventually flow into the Pacific Ocean (a Traditional Navigable Water). Therefore, the delineated jurisdictional resources are subject to regulation under Sections 404 and 401 of the CWA and CDFW jurisdiction under Sections 1600–1616 of the California Fish and Game Code.

Table 3: Existing Jurisdictional Delineation Features Summary

Habitat Type	Stream Length	USACE/RWQCB	CDFW
	Linear Feet	Acres[1]	Acres[1]
Wetland	10,621	5.97	7.45
Non-wetland	17,291	1.74	2.54
Riparian	1,113	0.18	0.28
TOTAL	**29,025**	**7.89**	**10.27**

[1]Total acreage may not add up to the total shown; total is reflective of rounding GIS raw data in each category.
USACE: U.S. Army Corps of Engineers
RWQCB: Regional Water Quality Control Board
CDFW: California Department of Fish and Wildlife

4.2.1 Construction Constraints

Six poles (Location 7, 35, work area between 70 and 71, 72, 97, and 99) and five staging yard (shown on Sheets 9, 53, 68, 71) are located within 25 feet of jurisdictional resources. Additionally, several jurisdictional resources cross access roads unculverted. Work areas adjacent to jurisdictional resources should implement avoidance and minimization measures including flagging the impact limits and installing proper BMPs to avoid potential impacts to jurisdictional resources. A Summary Constraint Table that summarizes all the jurisdictional resources that occur within or adjacent to work areas are presented in Appendix E.

An aquatics monitor is recommended for all work activities occurring within the project areas identified within Appendix E (with the exception of the access road crossings).

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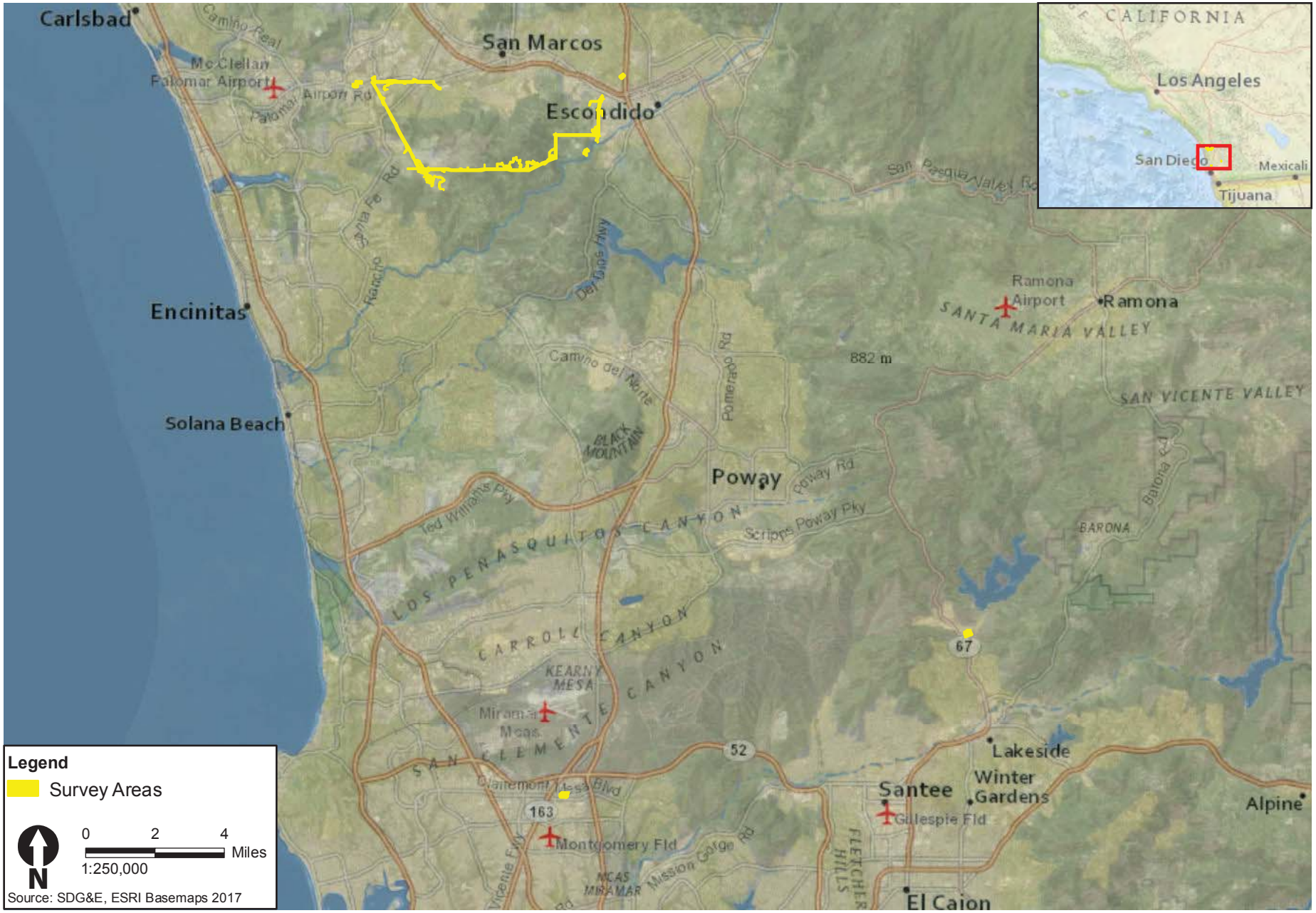
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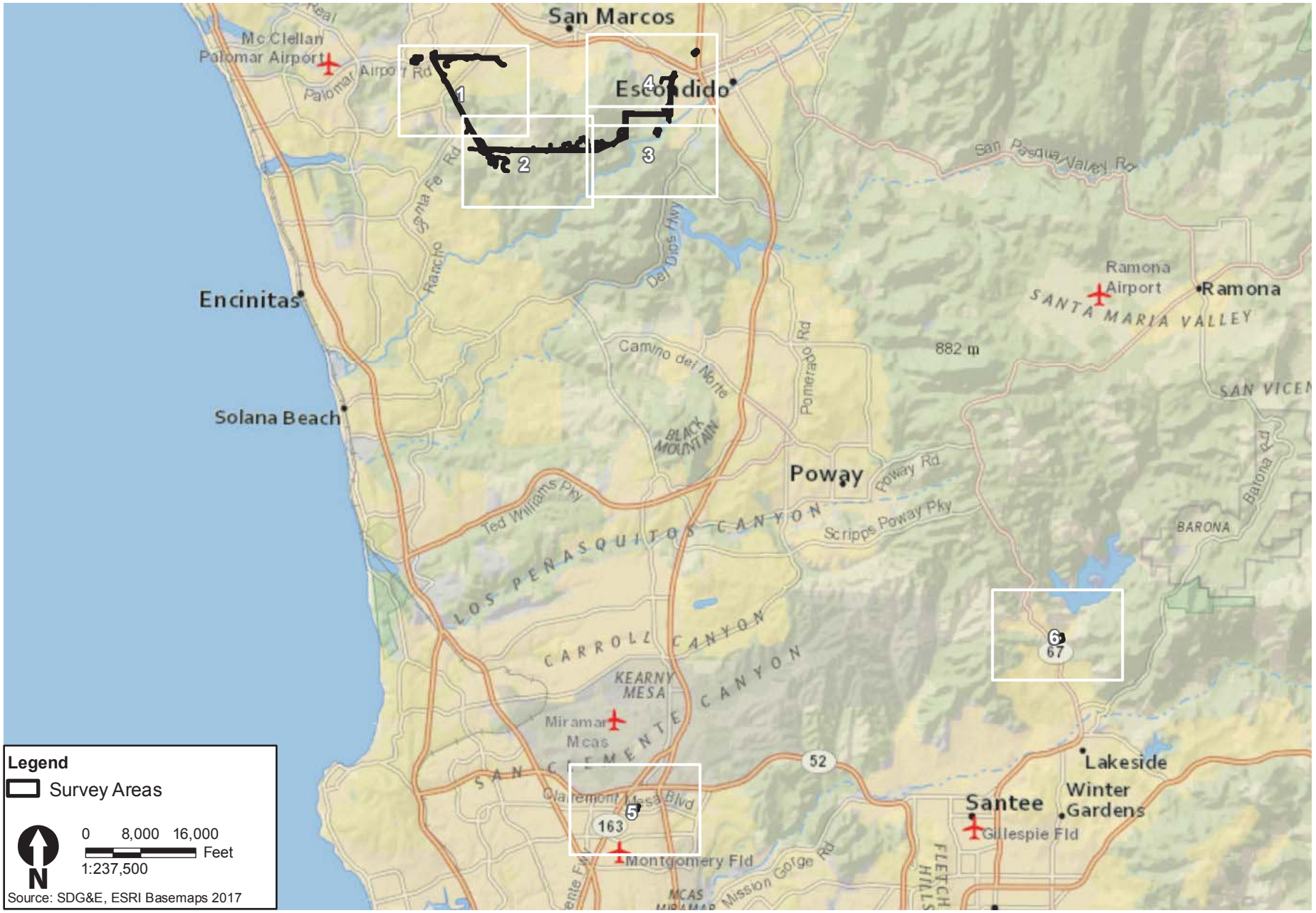
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Appendix A
Figures



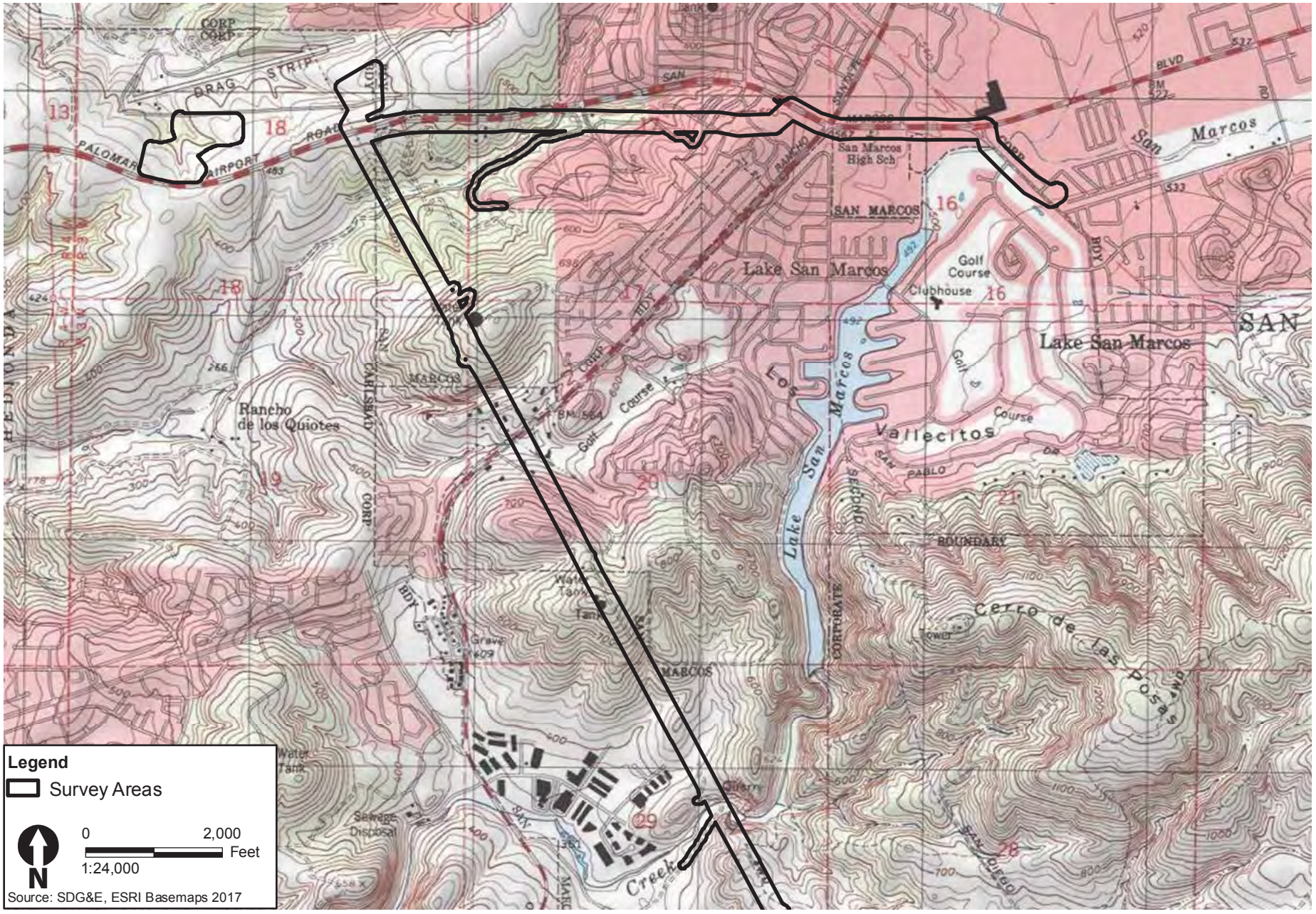
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Figure 1
Regional Vicinity Map



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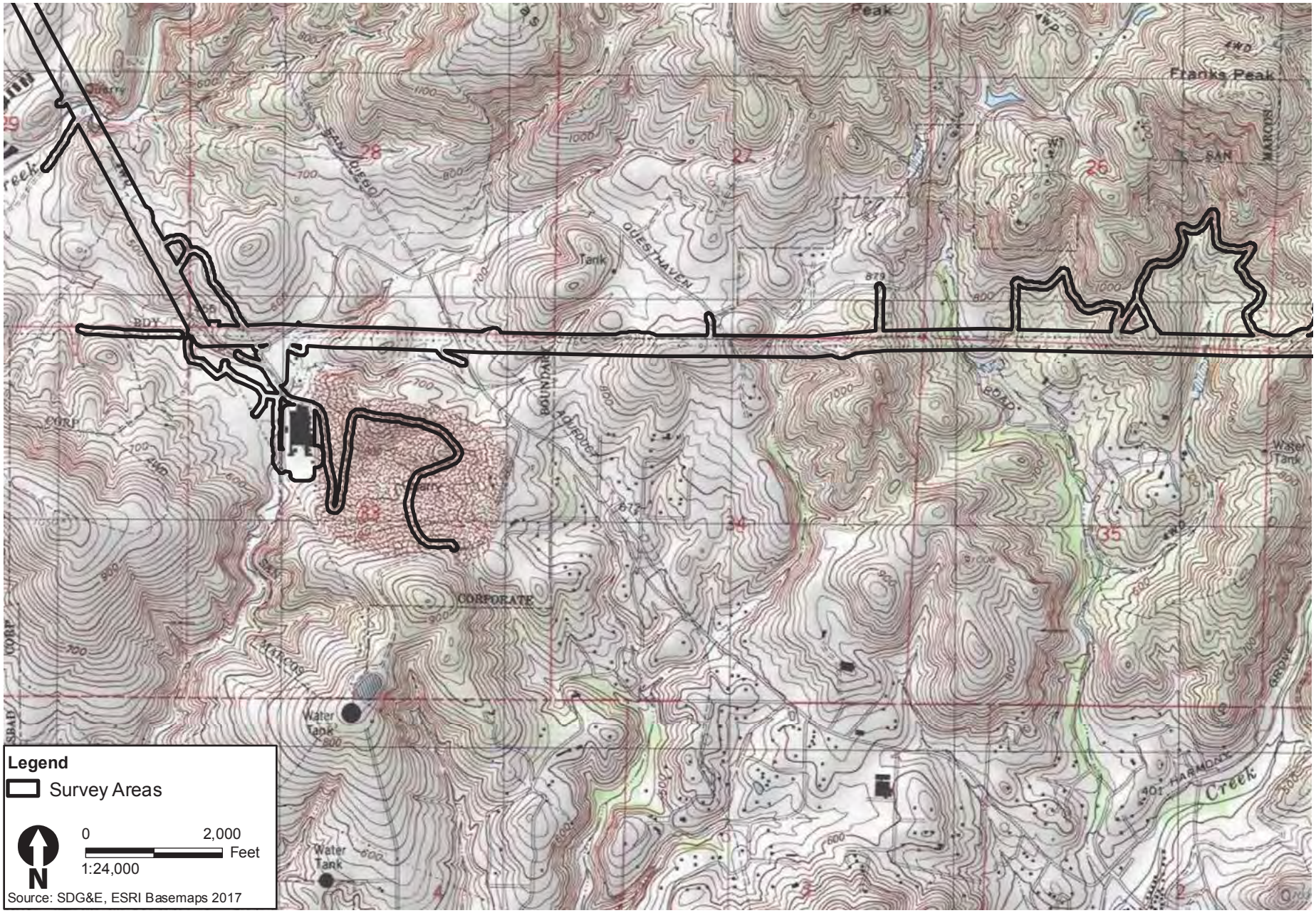
Figure 2 - Overview
Project Vicinity



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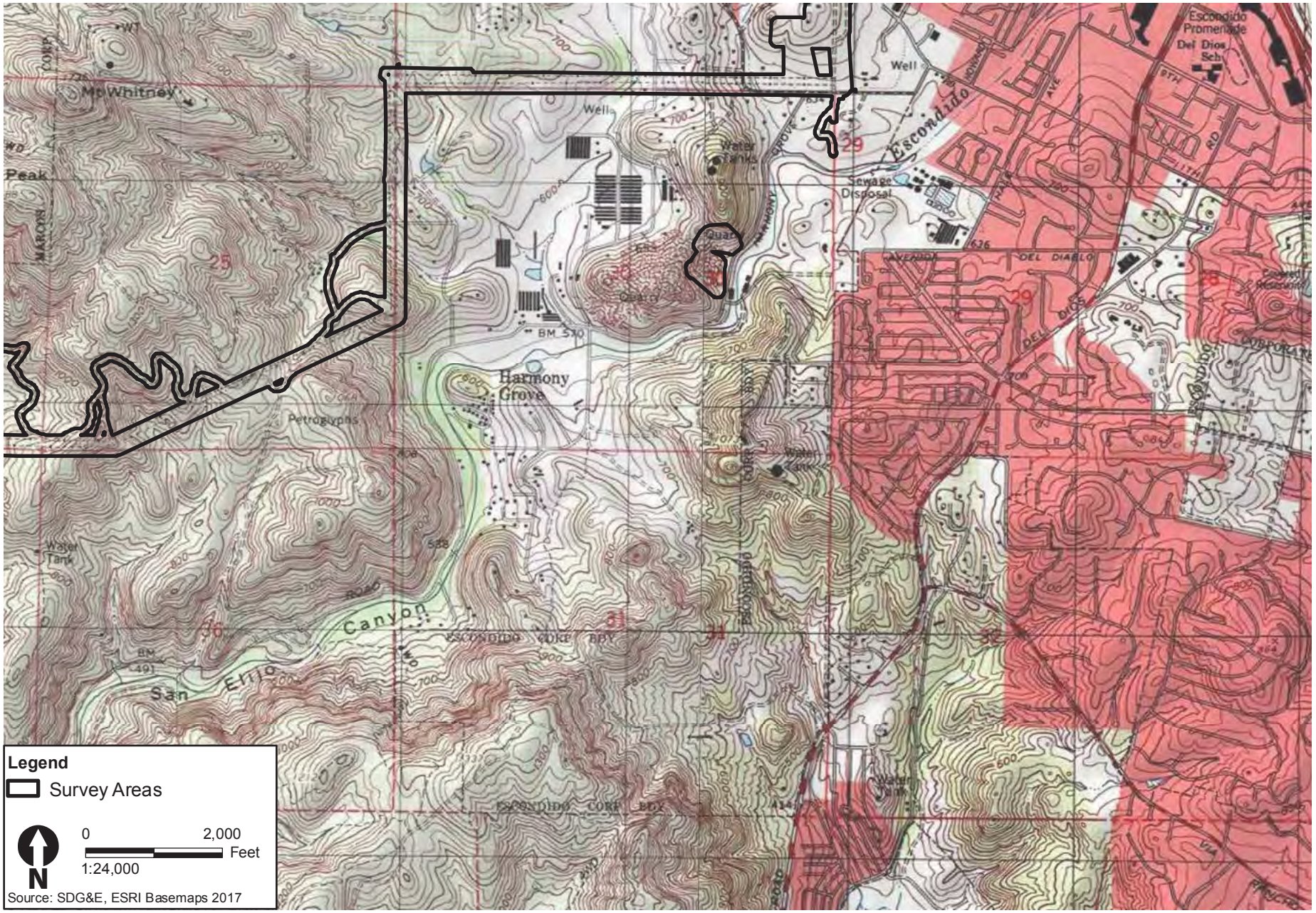
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Figure 2 - 1
Project Vicinity



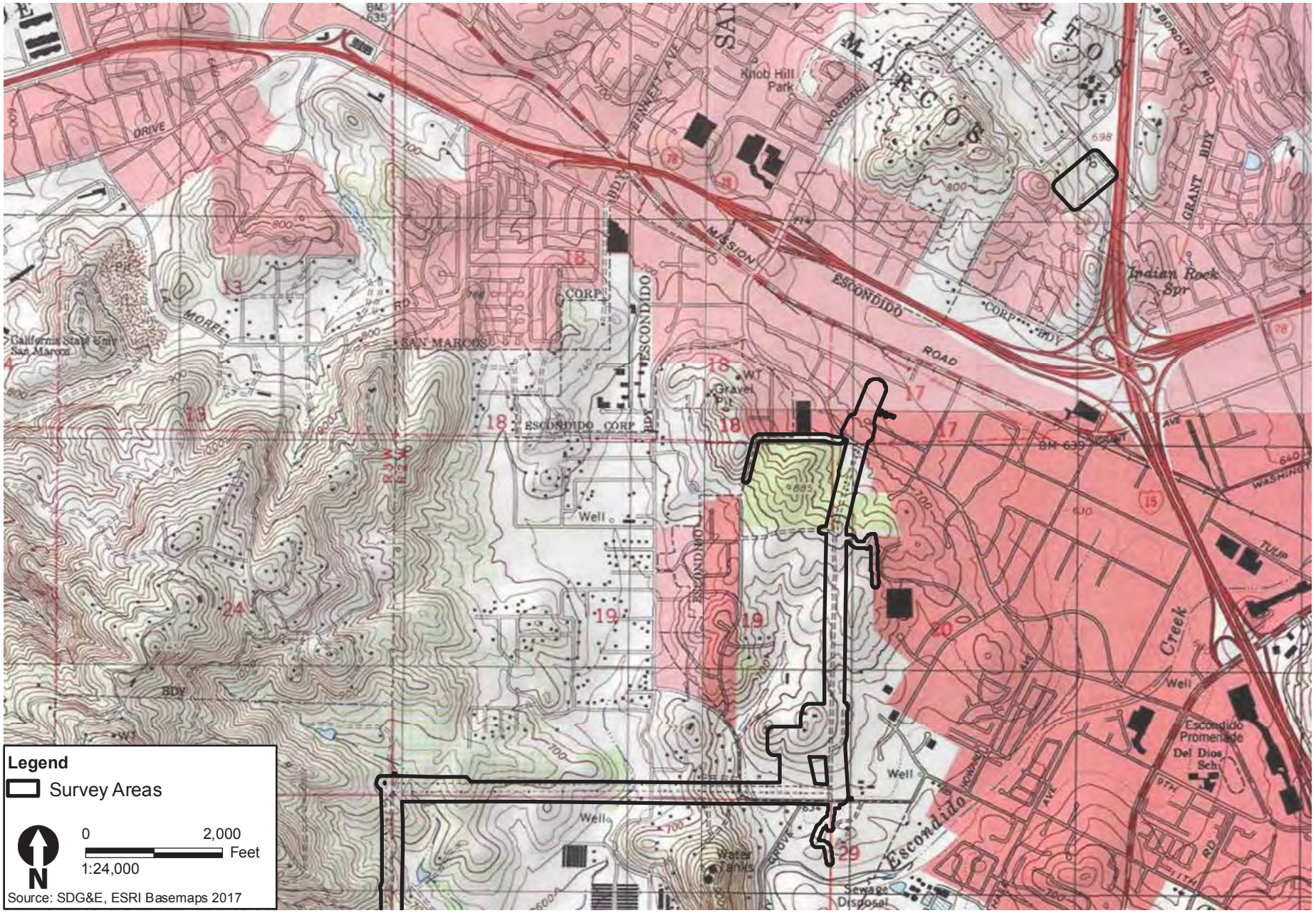
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Figure 2 - 2
Project Vicinity



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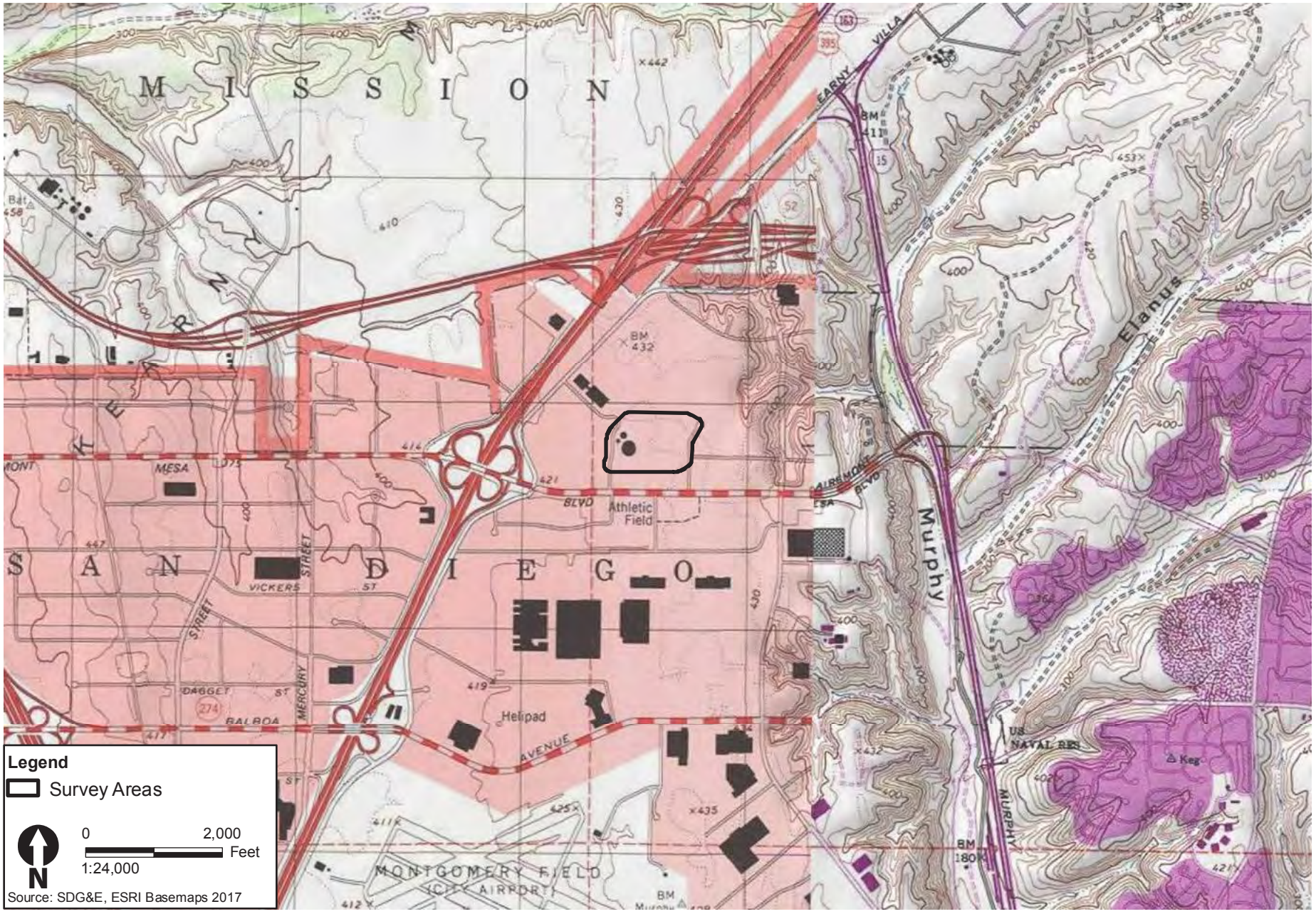
Figure 2 - 3
Project Vicinity



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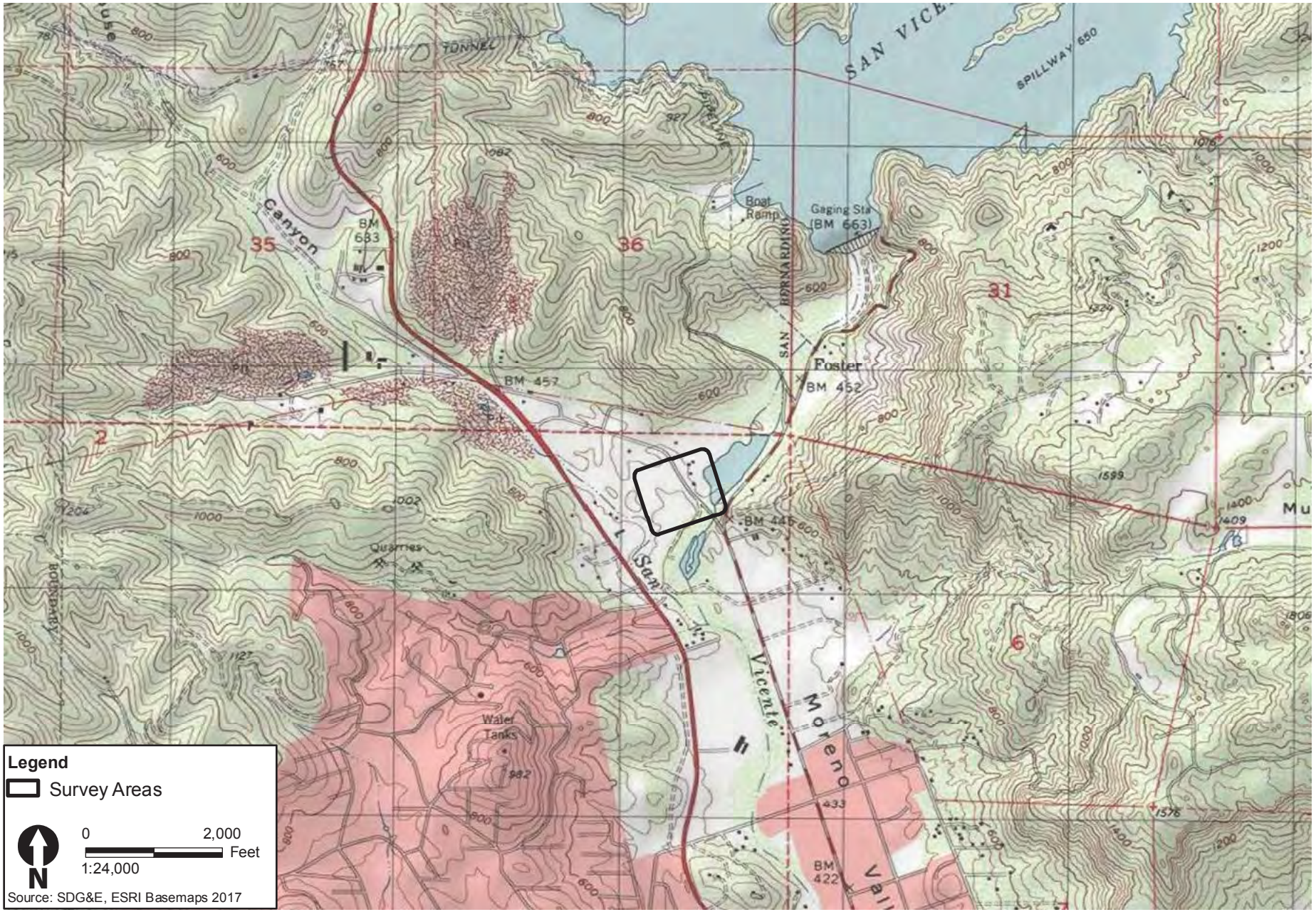
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Figure 2 - 4
Project Vicinity



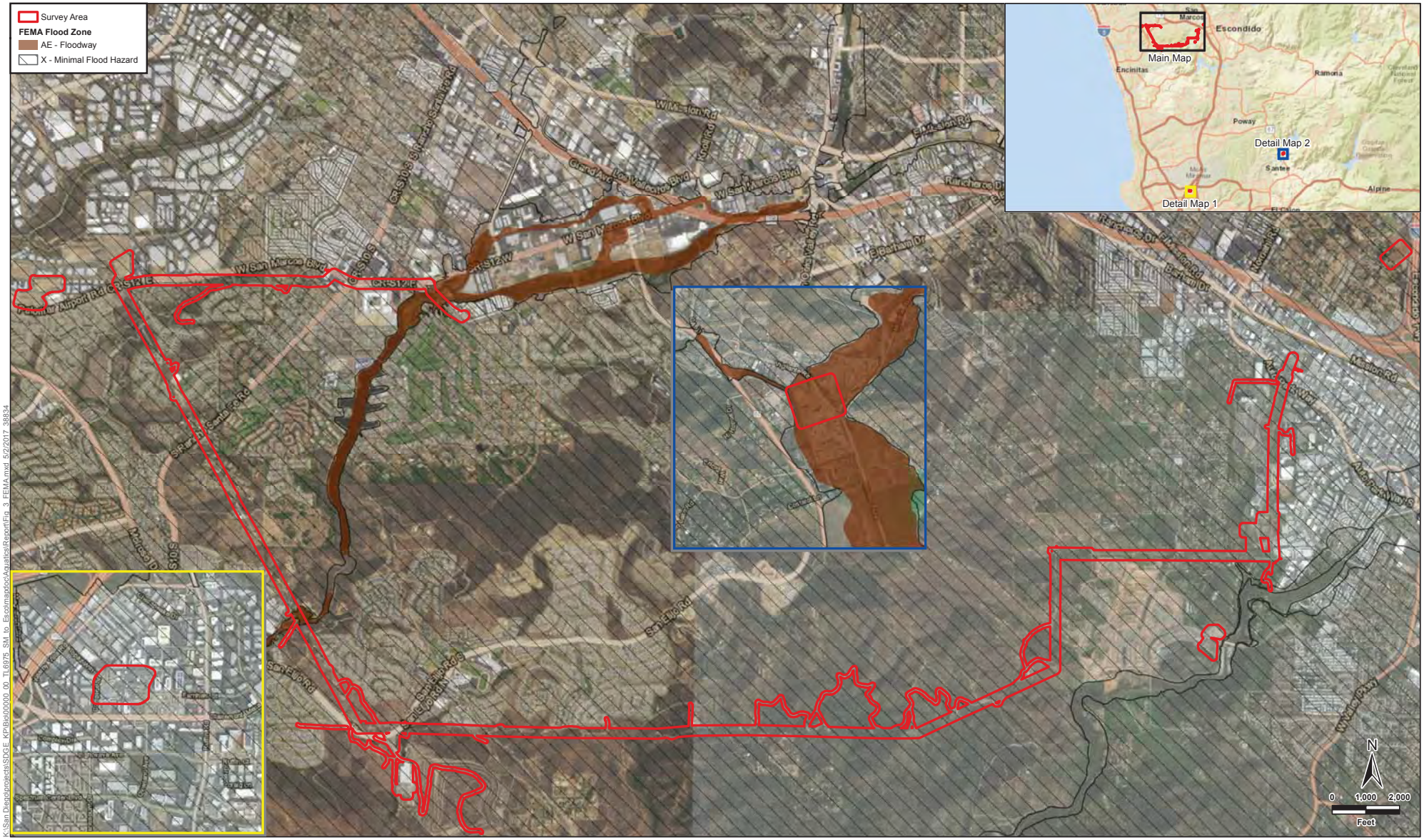
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Figure 2 - 5
Project Vicinity



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Figure 2 - 6
Project Vicinity



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Figure 3
FEMA 100-Year Floodplain
TL 6975 Escondido to San Marcos New 69kV Project

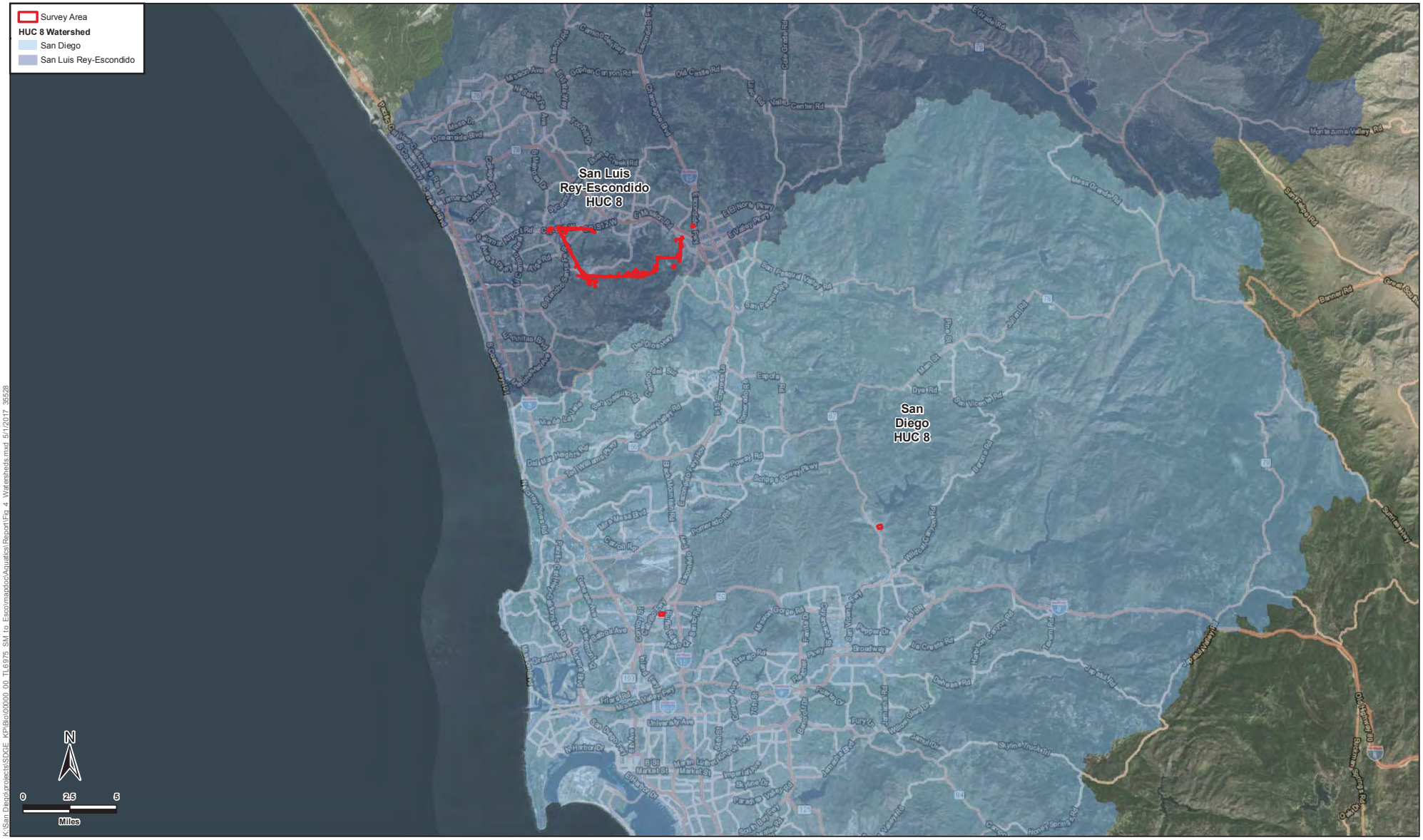
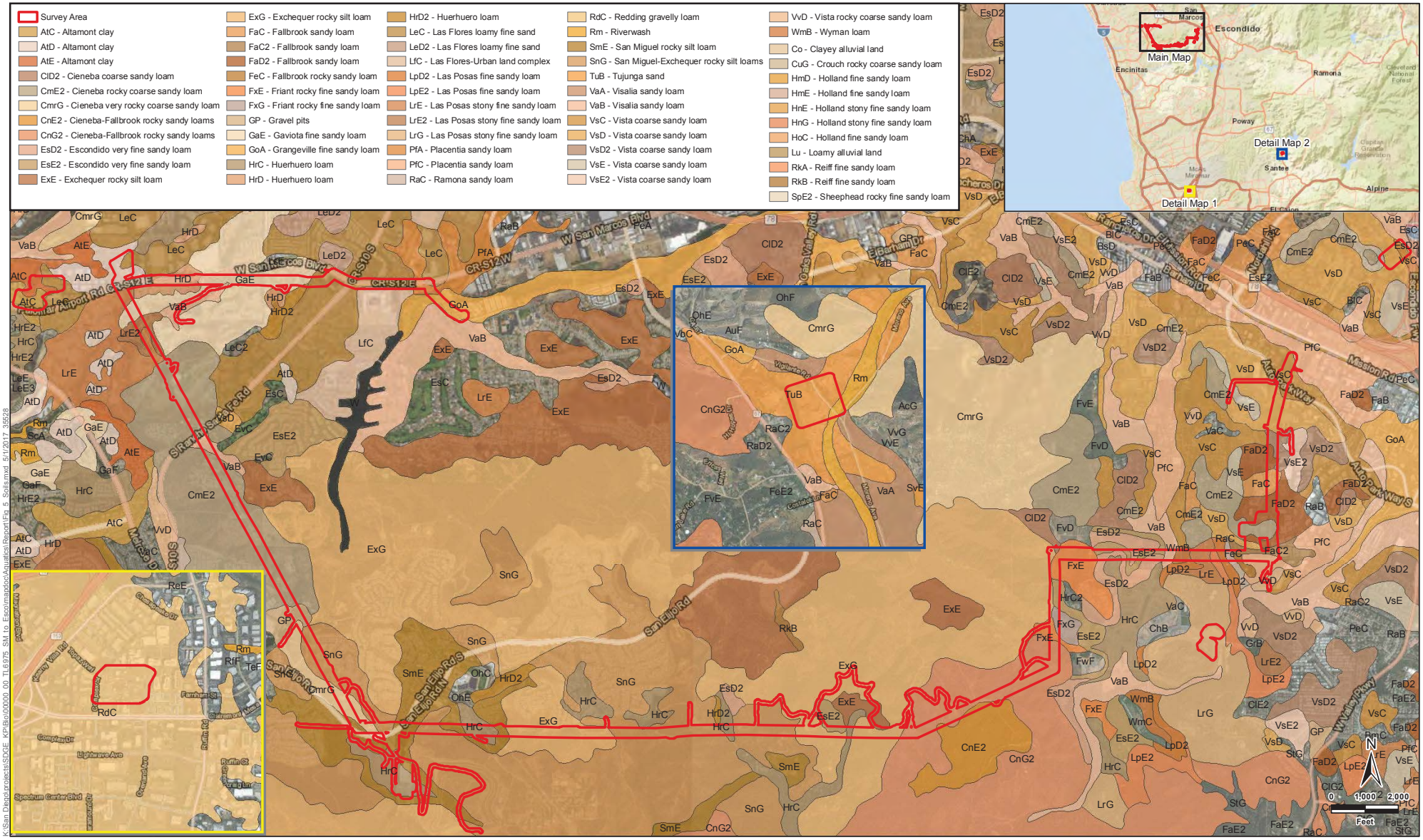


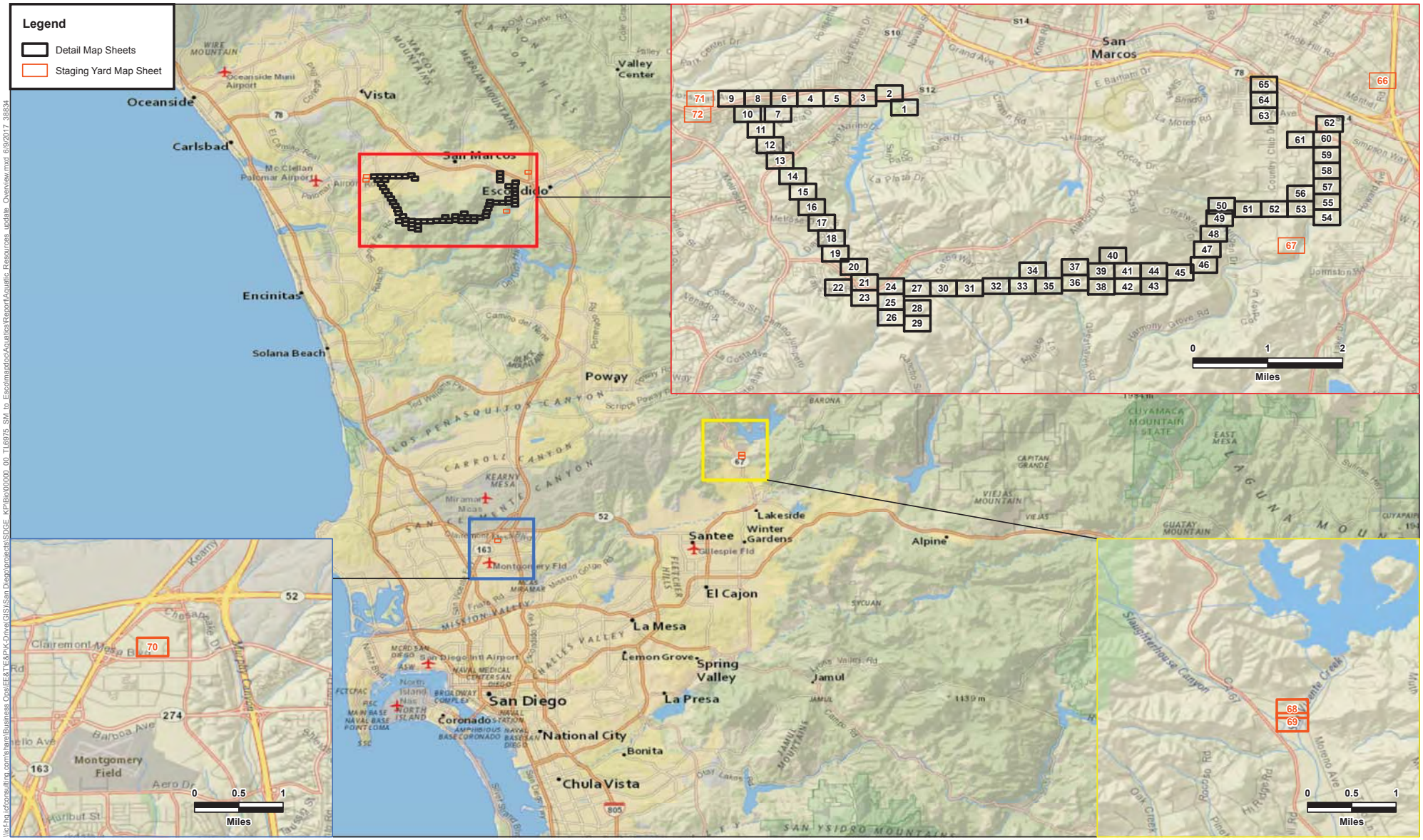
Figure 4
Watersheds
TL 6975 Escondido to San Marcos New 69kV Project



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Figure 5
Soils
TL 6975 Escondido to San Marcos New 69kV Project



Detail Map Sheets

Figure 6a
Jurisdictional Delineation Index
TL 6975 Escondido to San Marcos New 69kV Project



Figure 6b-01
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Wetland Data Points
Non-Jurisdictional Features
Concrete V-Ditch (BMP)
Jurisdictional Waters (USACE/RWQCB/CDFW)
Perennial stream
Wetland/Riparian
Project Components
Survey Area
Project Components
Permanent Impacts
Temporary Impacts
Poles
Transmission Line

N

0 65 130
Feet

Figure 6b-02
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Project Components
- Survey Area

Project Components
- Permanent Impacts
- Temporary Impacts

- Poles
- Transmission Line

N

0 65 130
Feet

Figure 6b-03
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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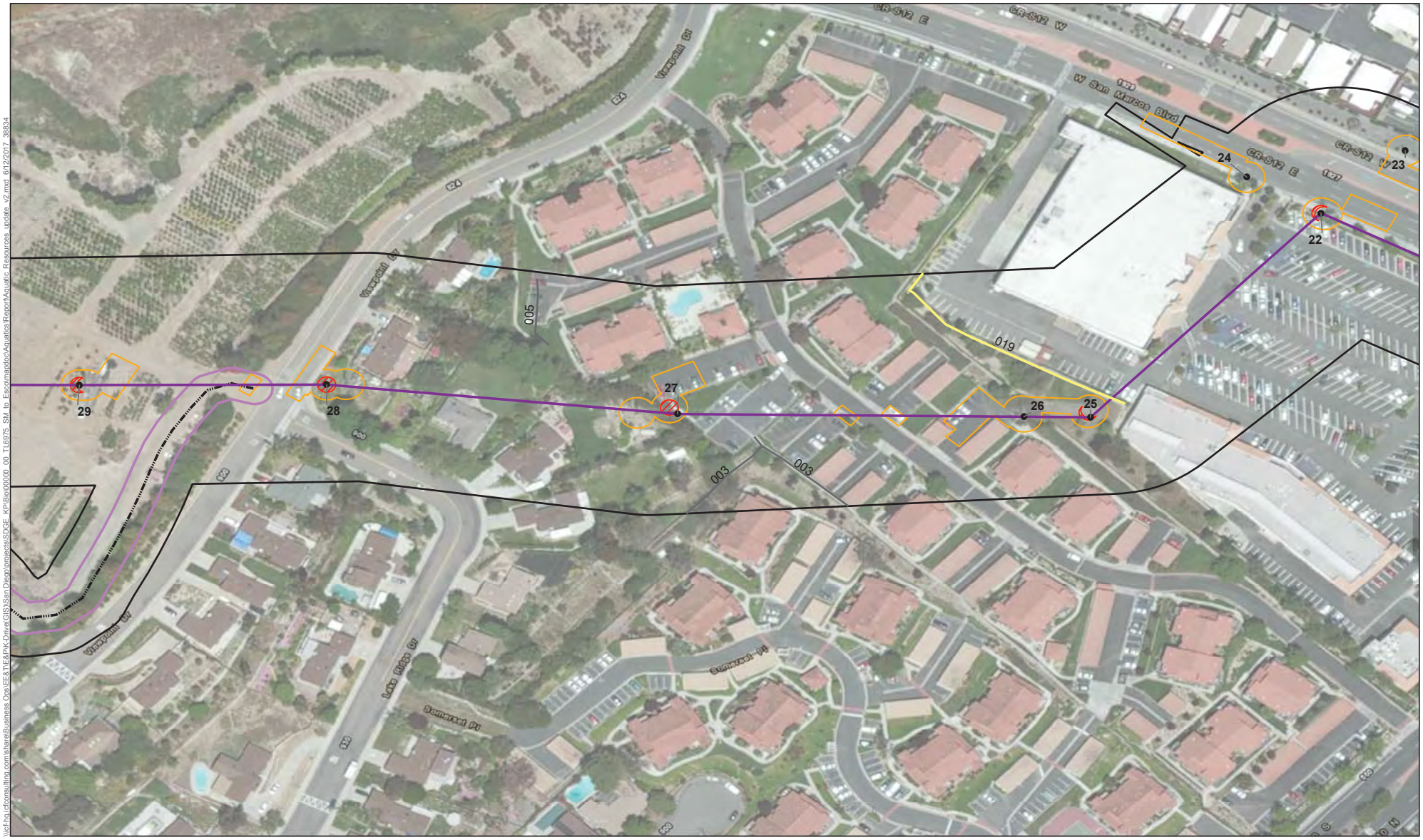
Culverts
Wetland Data Points
Jurisdictional Waters (USACE/RWQCB/CDFW)
Ephemeral stream
Concrete Lined Ephemeral Stream
Intermittent stream
Perennial stream
Swale
Wetland/Riparian
Project Components
Survey Area
Project Components
Permanent Impacts
Temporary Impacts
Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-04
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Jurisdictional Waters (USACE/RWQCB/CDFW)
- Concrete Lined Ephemeral Stream

Project Components
- Survey Area
- Permanent Impacts
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-05
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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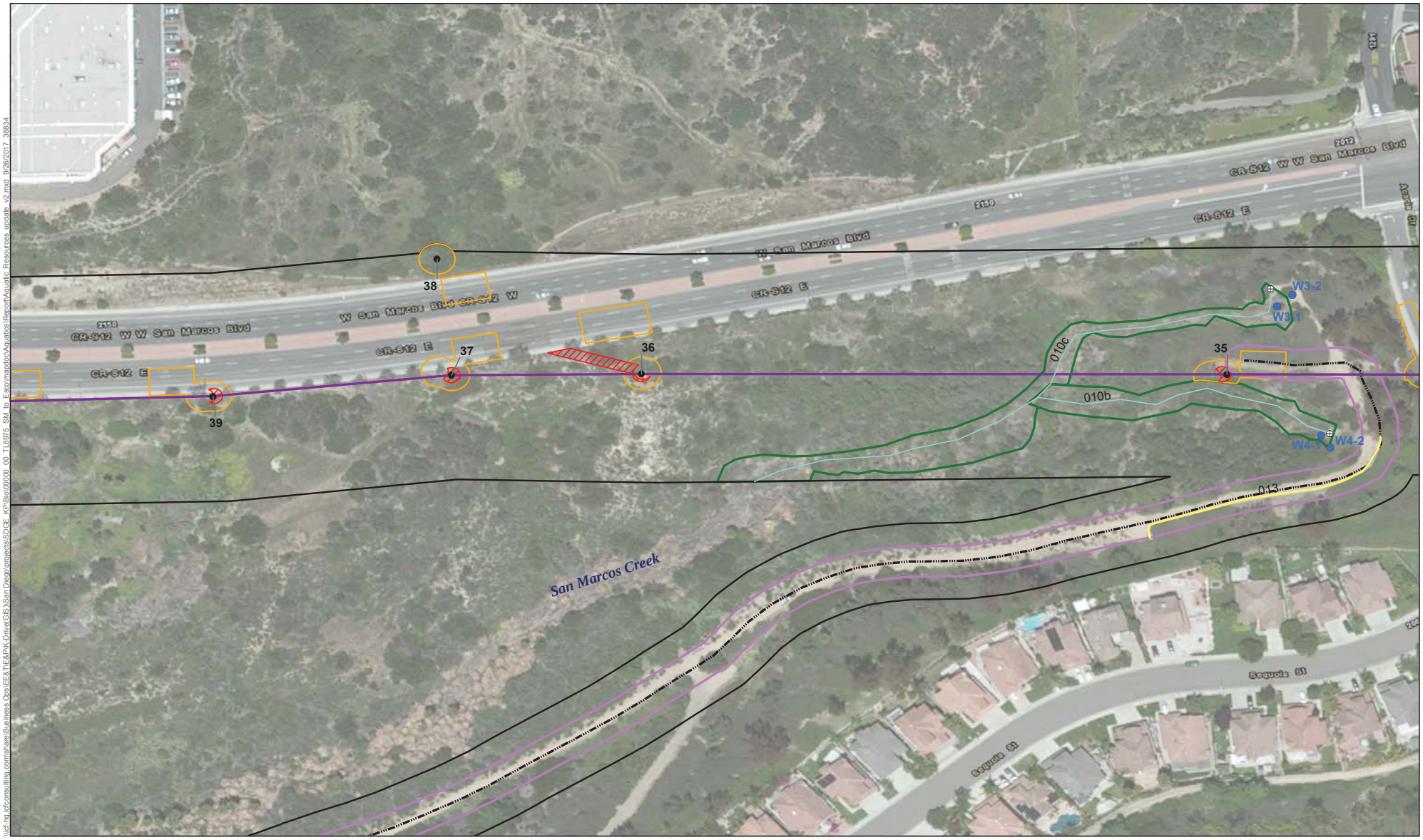


Figure 6b-06
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Figure 6b-07
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Project Components
- Survey Area
- Staging Yard
- Permanent Impacts
- Temporary Impacts
- Poles
- Transmission Line

N

0 65 130
Feet

Figure 6b-08
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Non-Jurisdictional Features
- Concrete V-Ditch (BMP)
- Wetland/Riparian

Project Components
- Survey Area

Project Components
- Permanent Impacts
- Temporary Impacts

- Poles
- Transmission Line
- Access Roads

- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-09
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Culverts
Wetland Data Points

Non-Jurisdictional Features
Concrete V-Ditch (BMP)

Jurisdictional Waters (USACE/RWQCB/CDFW)
Ephemeral stream
Intermittent stream
Perennial stream
Wetland/Riparian

Project Components
Survey Area

Project Components
Permanent Impacts
Temporary Impacts

Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

Figure 6b-10
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Culverts
Non-Jurisdictional Features
Concrete V-Ditch (BMP)
Jurisdictional Waters (USACE/RWQCB/CDFW)
Ephemeral stream
Project Components
Survey Area
Project Components
Permanent Impacts
Temporary Impacts
Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N
0 65 130
Feet

Figure 6b-11
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Culverts

Non-Jurisdictional Features

Concrete V-Ditch (BMP)

Project Components

Survey Area

Project Components

Permanent Impacts

Temporary Impacts

Poles

Transmission Line

Access Roads

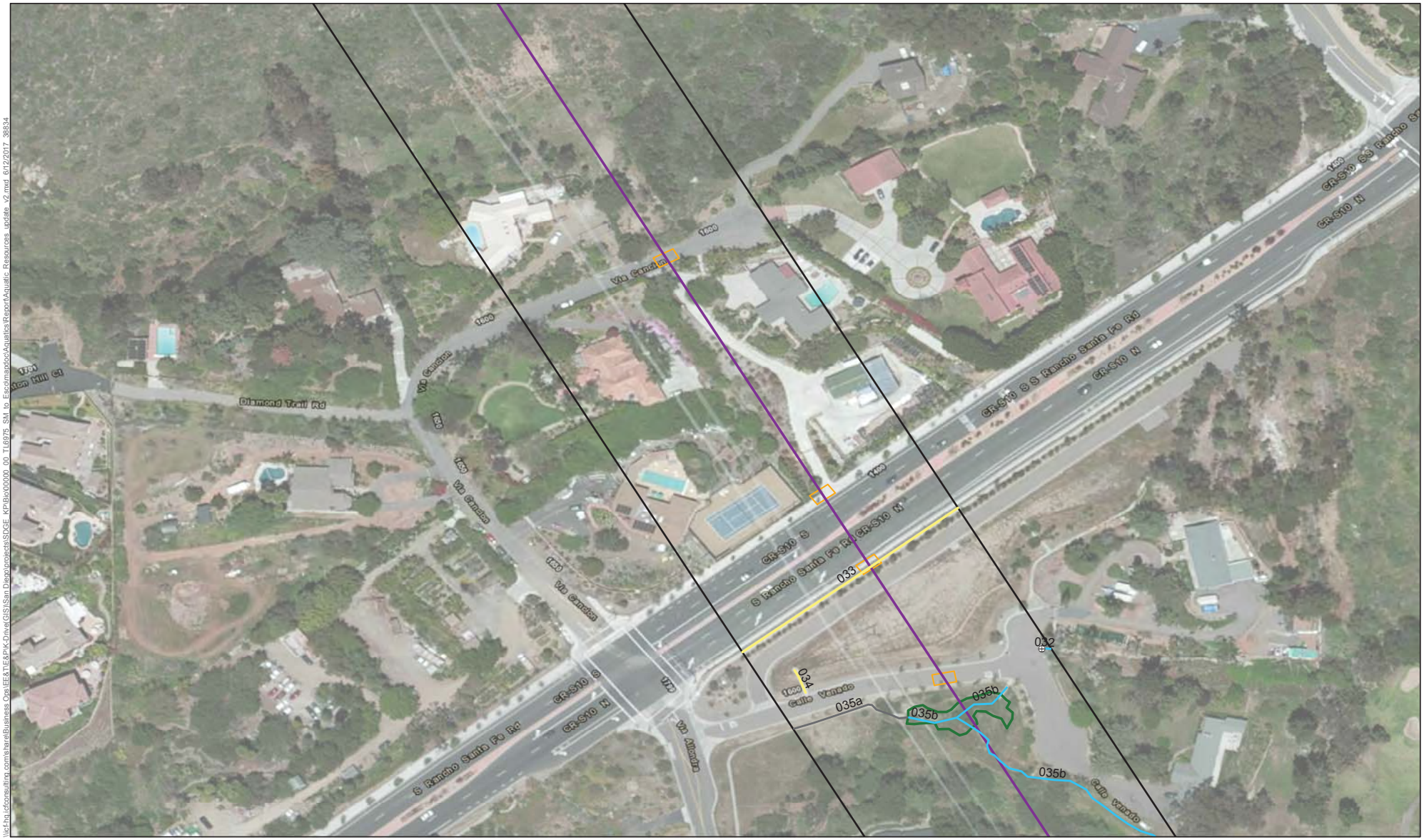
Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-12
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Wetland/Riparian

Temporary Impacts

Non-Jurisdictional Features

Ephemeral stream

Project Components

Transmission Line

Concrete V-Ditch (BMP)

Concrete Lined Ephemeral Stream

Survey Area

N

0 65 130

Feet

Figure 6b-13
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Swale

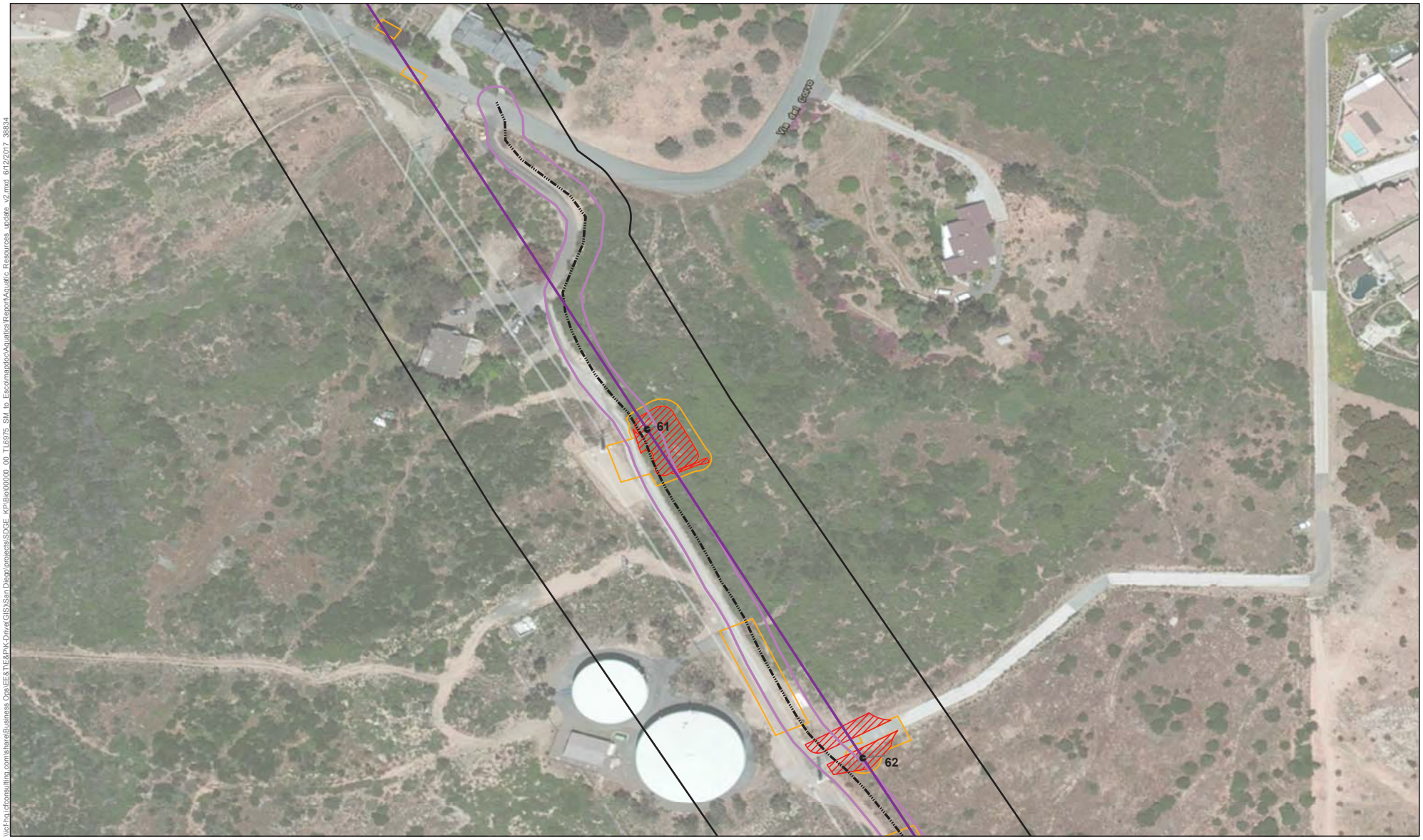
Project Components
- Survey Area
- Permanent Impacts
- Temporary Impacts
- Poles
- Transmission Line

N

0 65 130
Feet

Figure 6b-14
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Project Components
- Survey Area

Project Components
- Permanent Impacts
- Temporary Impacts

- Poles
- Transmission Line
- Access Roads

- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-15
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Erosional rill

Project Components
- Survey Area

Project Components
- Permanent Impacts
- Temporary Impacts

- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-16
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Culverts

Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Swale
- Wetland/Riparian

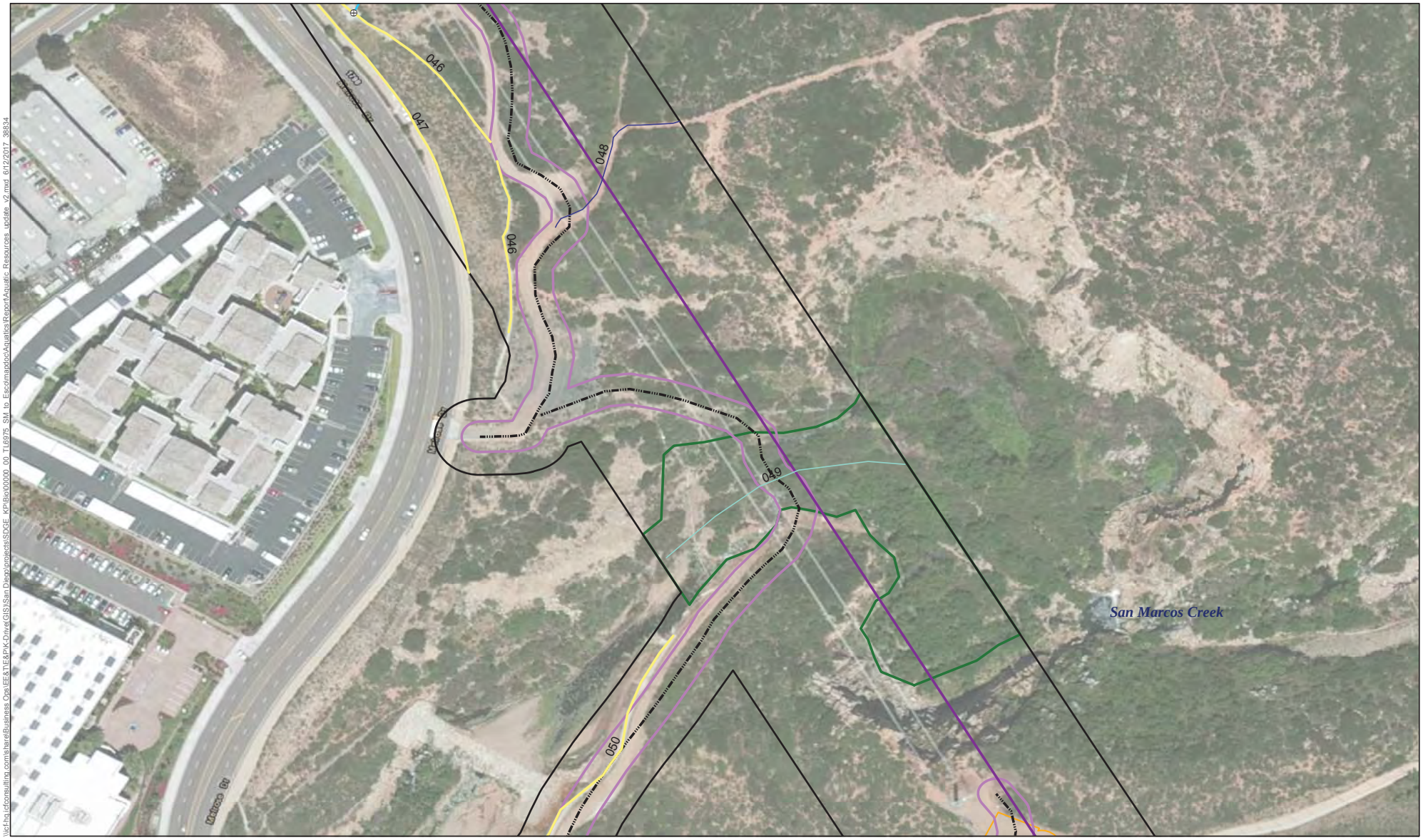
Project Components
- Survey Area

Project Components
- Permanent Impacts
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-17
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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ICF

- Culverts
- **Non-Jurisdictional Features**
  - Concrete V-Ditch (BMP)
- **Jurisdictional Waters (USACE/RWQCB/CDFW)**
  - Ephemeral stream
  - Erosional rill
  - Perennial stream
  - Wetland/Riparian
- **Project Components**
  - Survey Area
  - Temporary Impacts
  - Transmission Line
  - Access Roads
  - Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-18
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Wetland Data Points
Non-Jurisdictional Features
Concrete V-Ditch (BMP)
Jurisdictional Waters (USACE/RWQCB/CDFW)
Concrete Lined Ephemeral Stream

Project Components
Survey Area
Project Components
Permanent Impacts
Temporary Impacts

Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-19
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Figure 6b-20
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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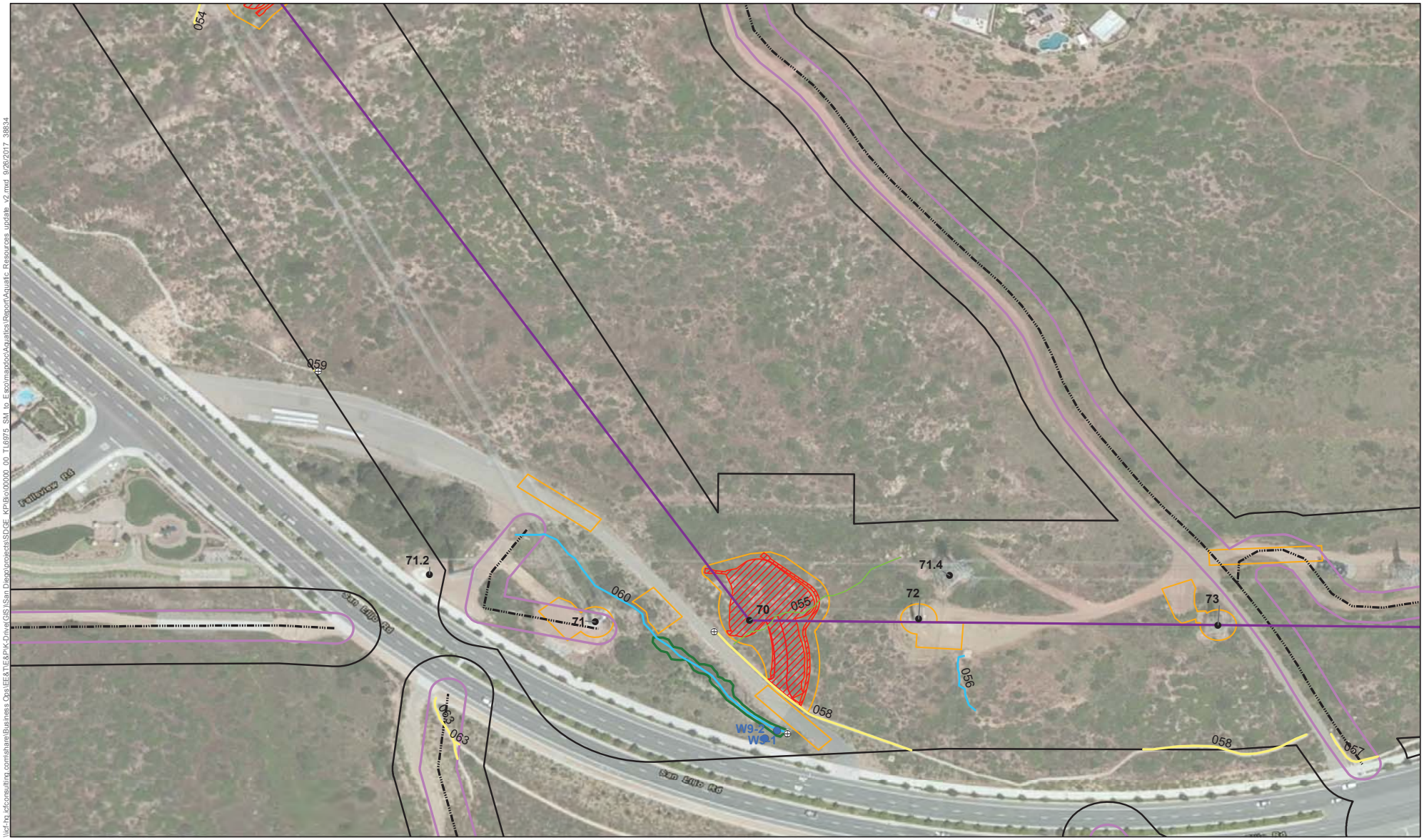
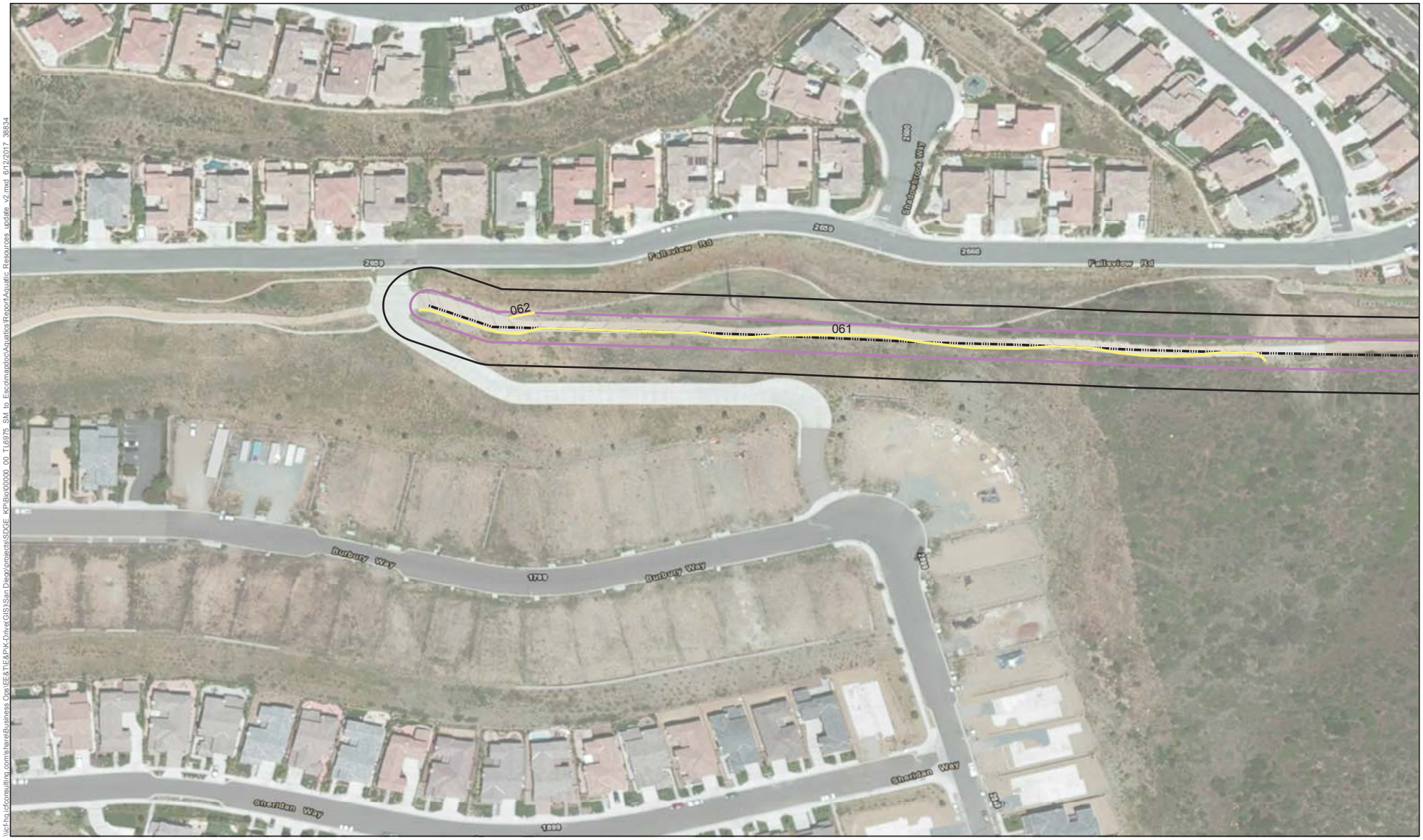


Figure 6b-21
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Non-Jurisdictional Features
Concrete V-Ditch (BMP)

Project Components
Survey Area
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-22
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Project Components

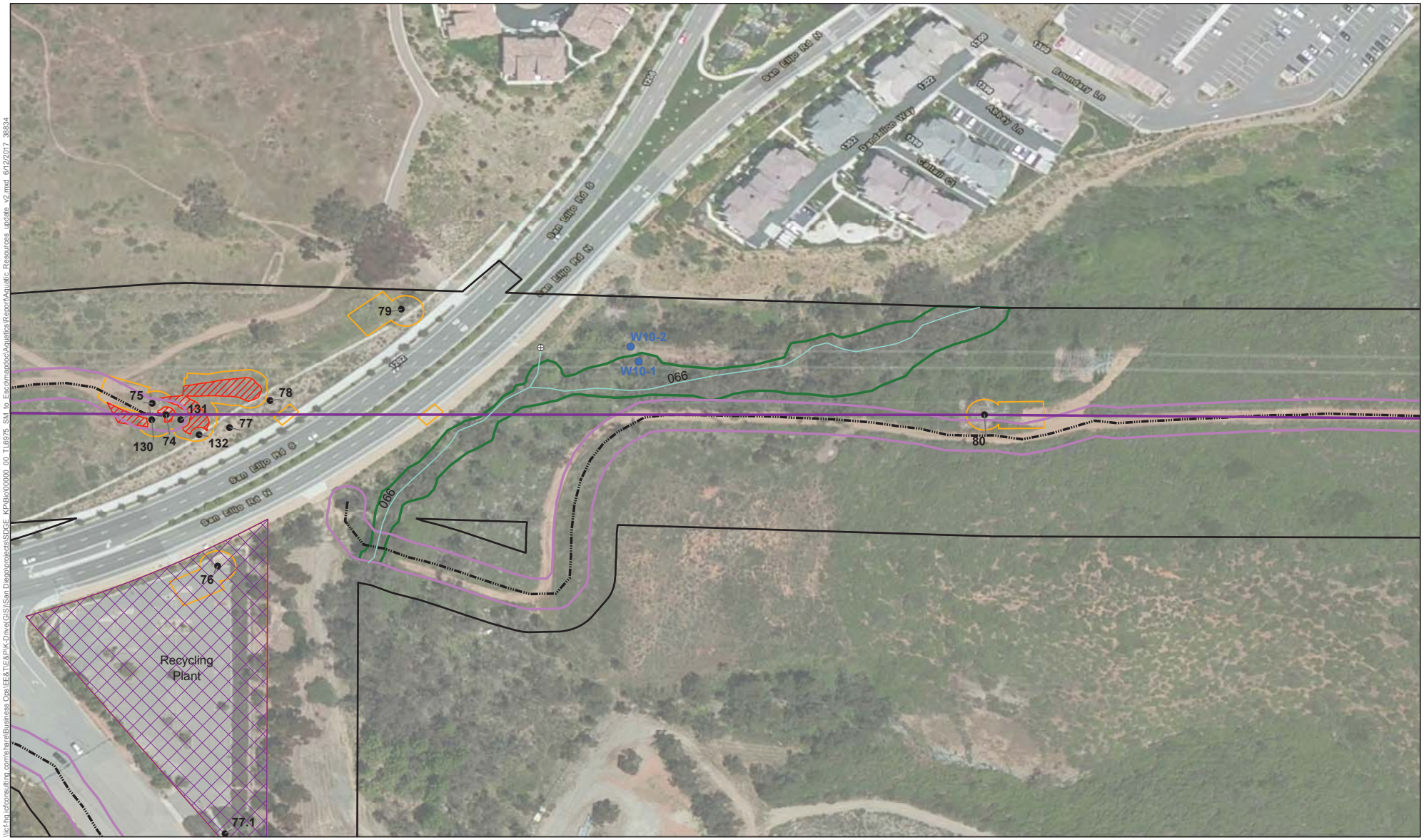
- Survey Area
- Poles
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-23
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project


Via Rancho Pkwy
Via Rancho Pkwy
Via Rancho Pkwy



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Jurisdictional Waters (USACE/RWQCB/CDFW)
Swale

Project Components
Survey Area
Staging Yard
Temporary Impacts
Poles
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-25
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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⊕ Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Swale

Project Components

Survey Area

Staging Yard

Temporary Impacts

Access Roads

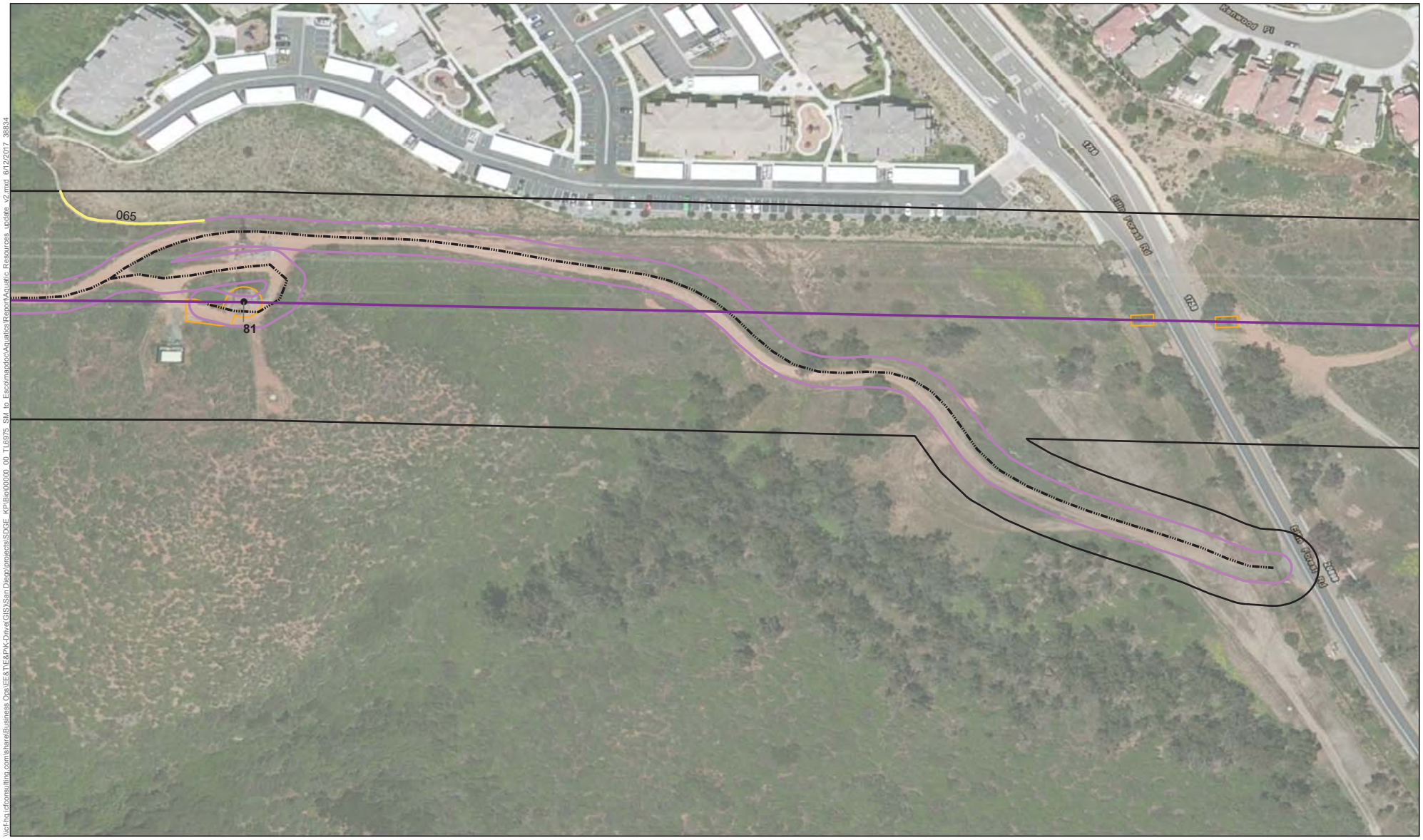
Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-26
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-27
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Project Components
- Access Roads-40ft Buffer
- Survey Area
- Access Roads

N

0 65 130
Feet

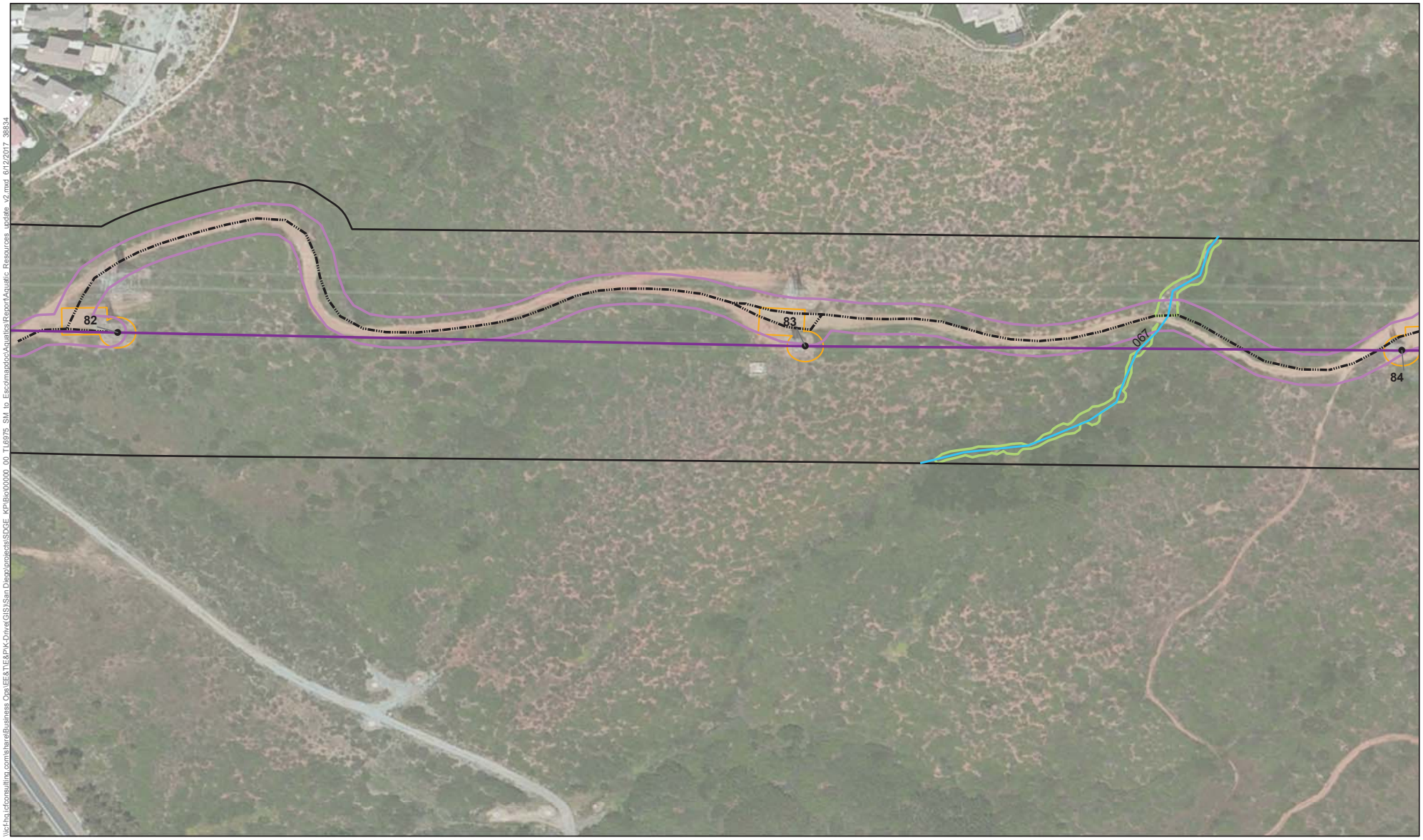
Figure 6b-28
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Project Components
Access Roads-40ft Buffer
Survey Area
Access Roads

N
0 65 130
Feet

Figure 6b-29
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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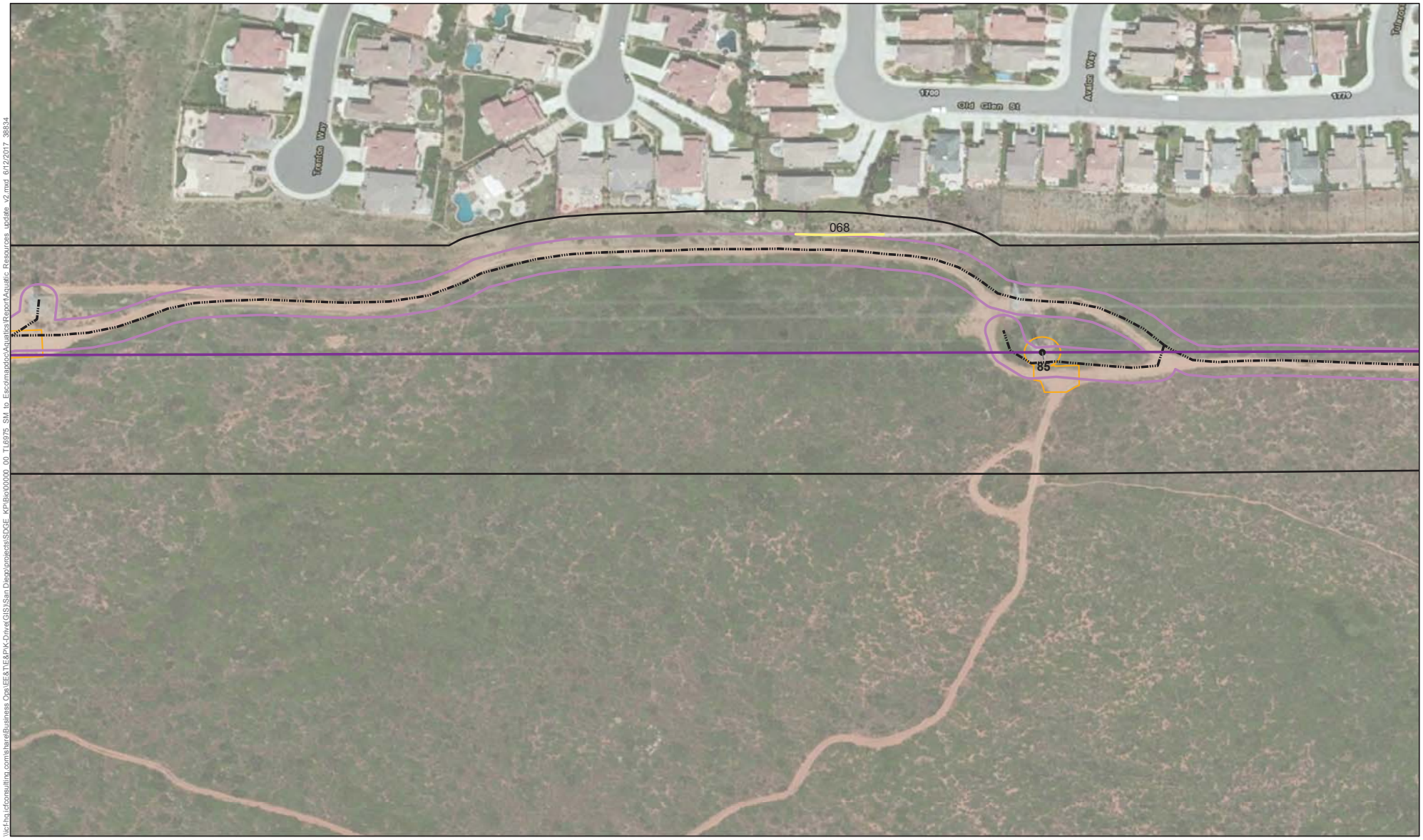
Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- CDFW Only Riparian

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-30
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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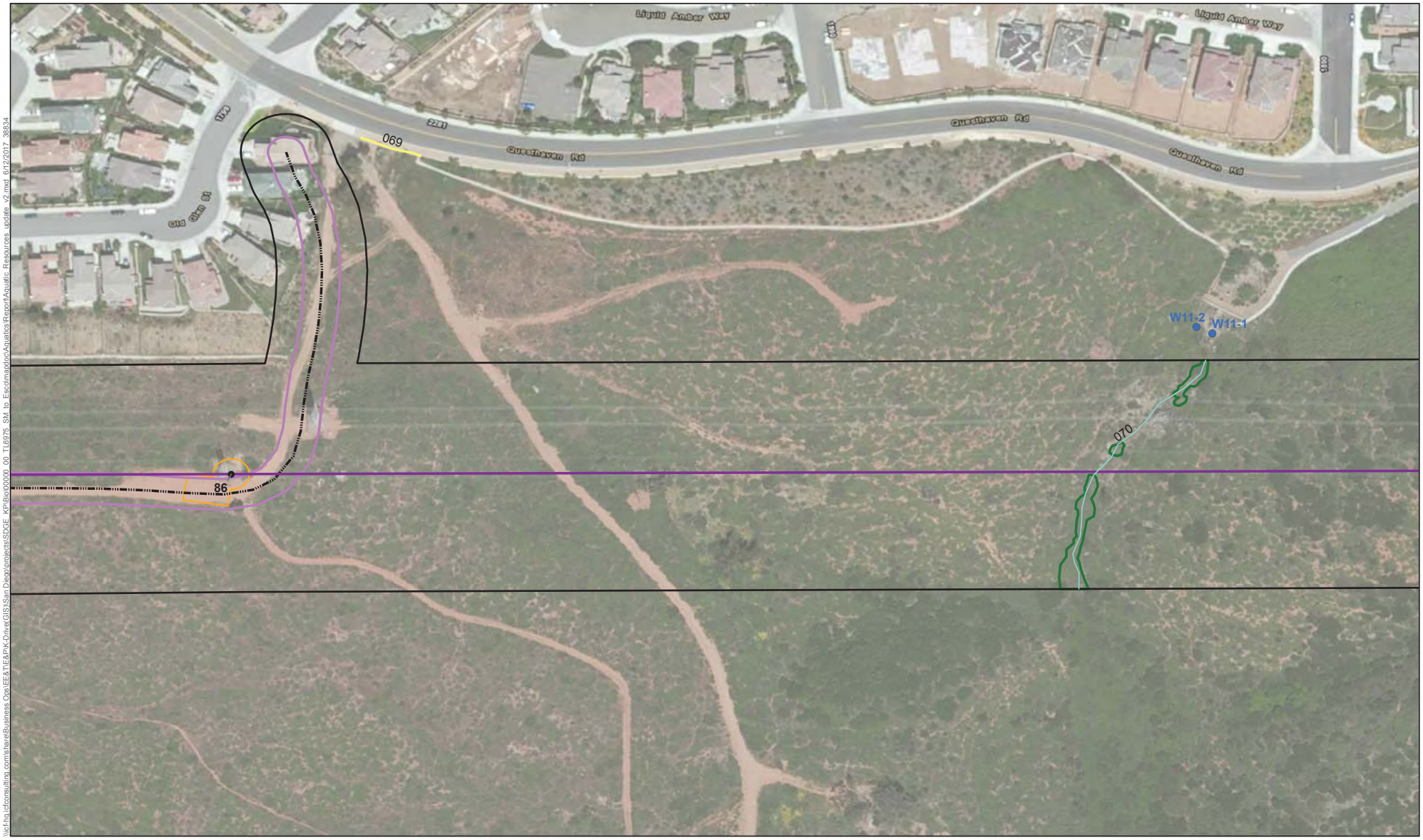
Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-31
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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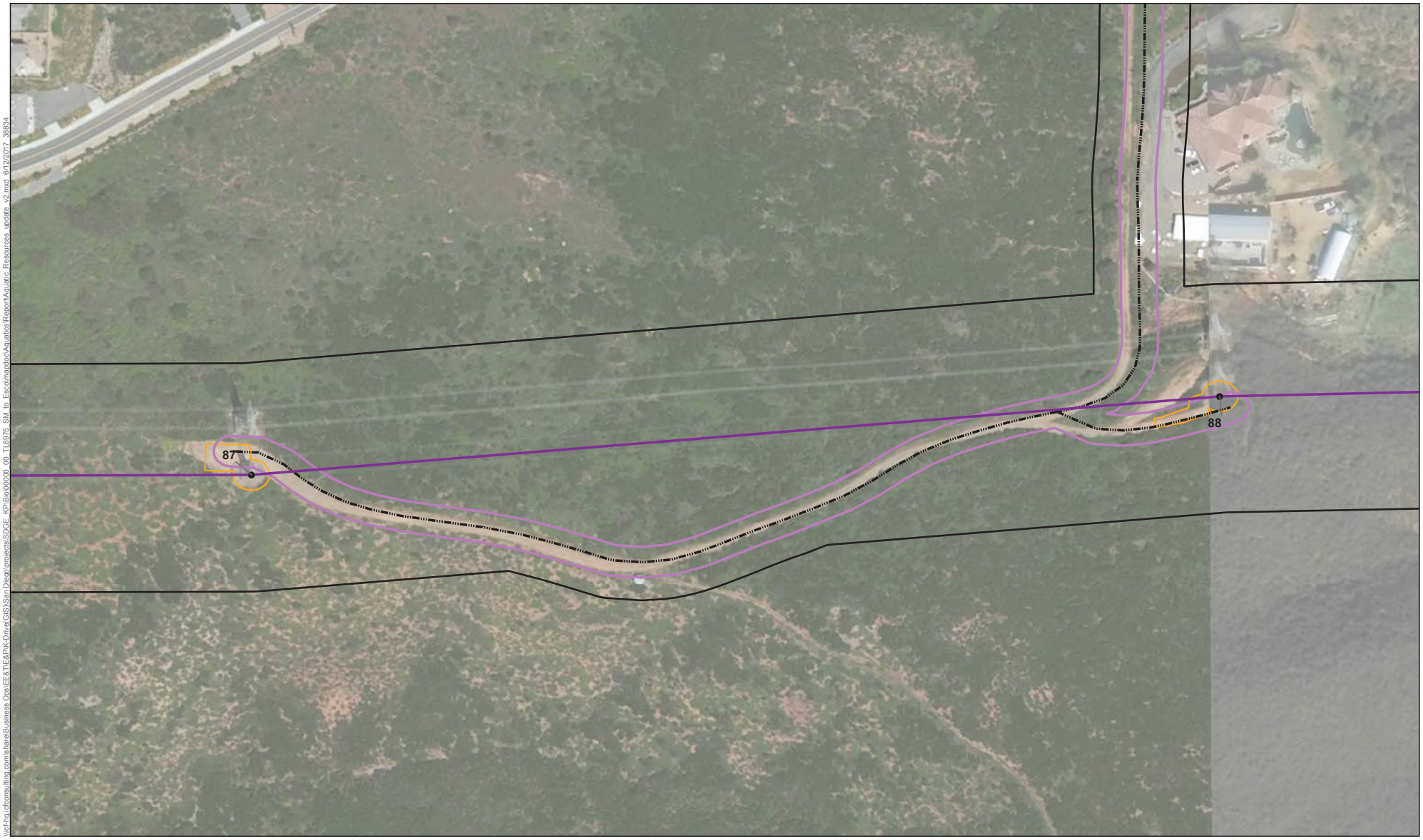
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- Wetland Data Points
- **Non-Jurisdictional Features**
  - Concrete V-Ditch (BMP)
- **Jurisdictional Waters (USACE/RWQCB/CDFW)**
  - Perennial stream
  - Wetland/Riparian
- **Project Components**
  - Survey Area
  - Temporary Impacts
  - Poles
  - Transmission Line
  - Access Roads
  - Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-32
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Project Components

- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-33
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Figure 6b-34
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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ICF

Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Project Components

Survey Area

Temporary Impacts

Poles

Transmission Line

Access Roads

Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-35
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Project Components

Survey Area

Transmission Line

Access Roads

Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-36
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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⊕ Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Project Components

Access Roads-40ft Buffer

Survey Area

Access Roads

N

0 65 130

Feet

Figure 6b-37
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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ICF

Culverts
Erosional rill
Temporary Impacts
Access Roads

Jurisdictional Waters (USACE/RWQCB/CDFW)
Ephemeral stream

Project Components
Survey Area
Poles
Transmission Line
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-38
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Figure 6b-39
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Project Components

Access Roads-40ft Buffer

Survey Area

Access Roads

N

0 65 130

Feet

Figure 6b-40
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Erosional rill

Project Components
- Survey Area
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-41
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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ICF

Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Project Components

Survey Area

Temporary Impacts

Poles

Transmission Line

Access Roads

Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-42
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Jurisdictional Waters (USACE/RWQCB/CDFW)
Swale

Project Components
Survey Area
Temporary Impacts
Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-43
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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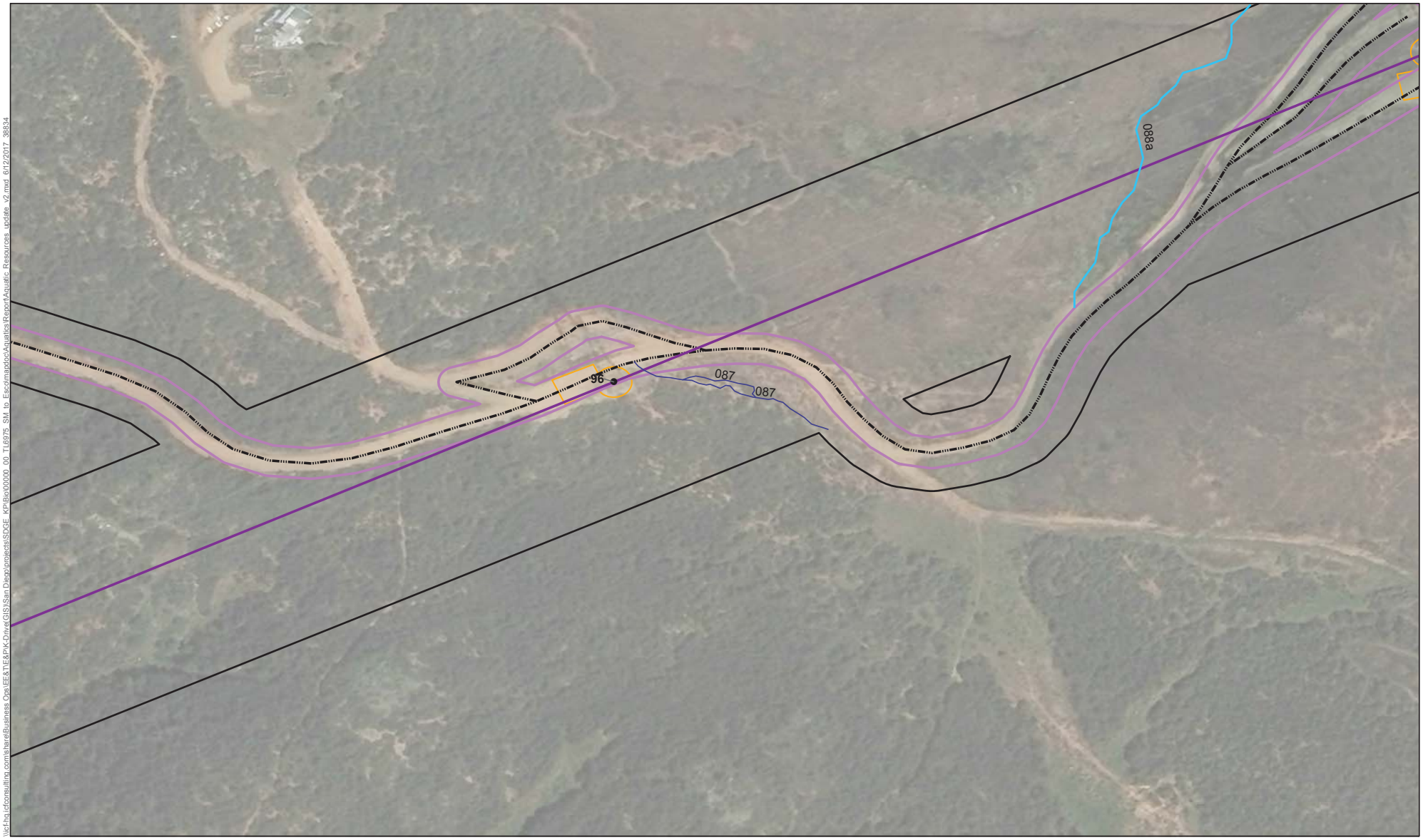
Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-44
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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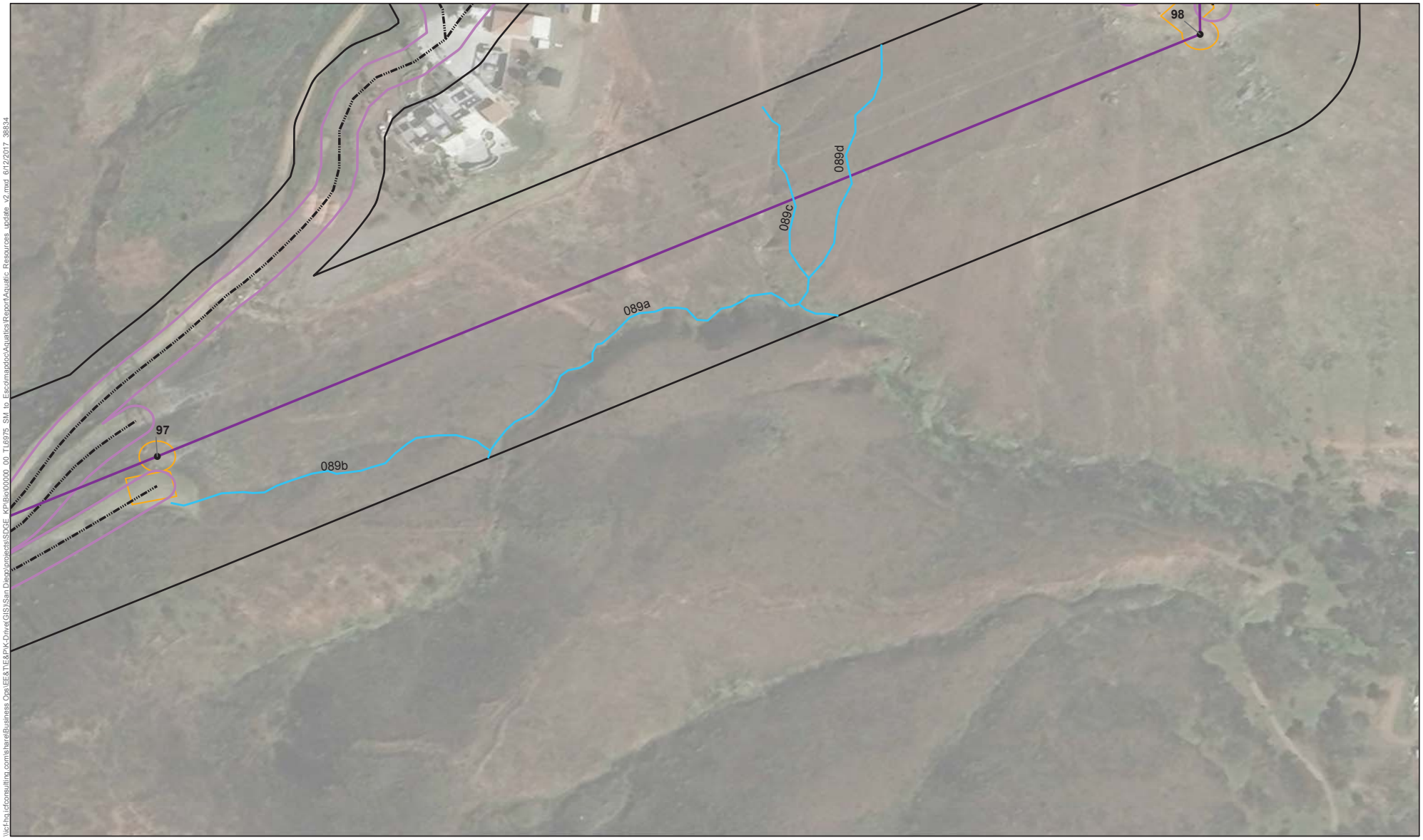
Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Erosional rill

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-45
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-46
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Wetland/Riparian

CDFW Only Riparian

Project Components

Survey Area

Temporary Impacts

Transmission Line

Access Roads

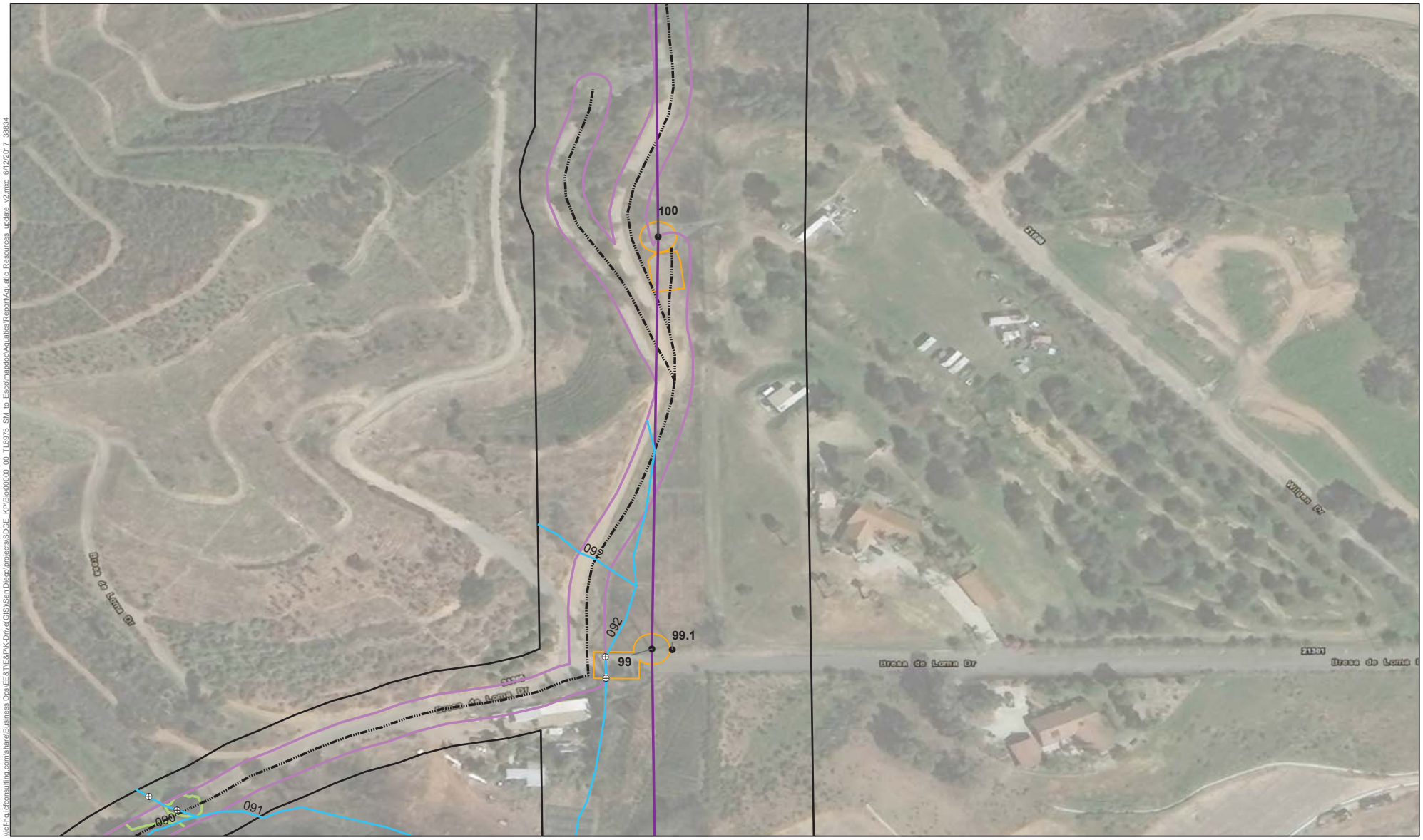
Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-47
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



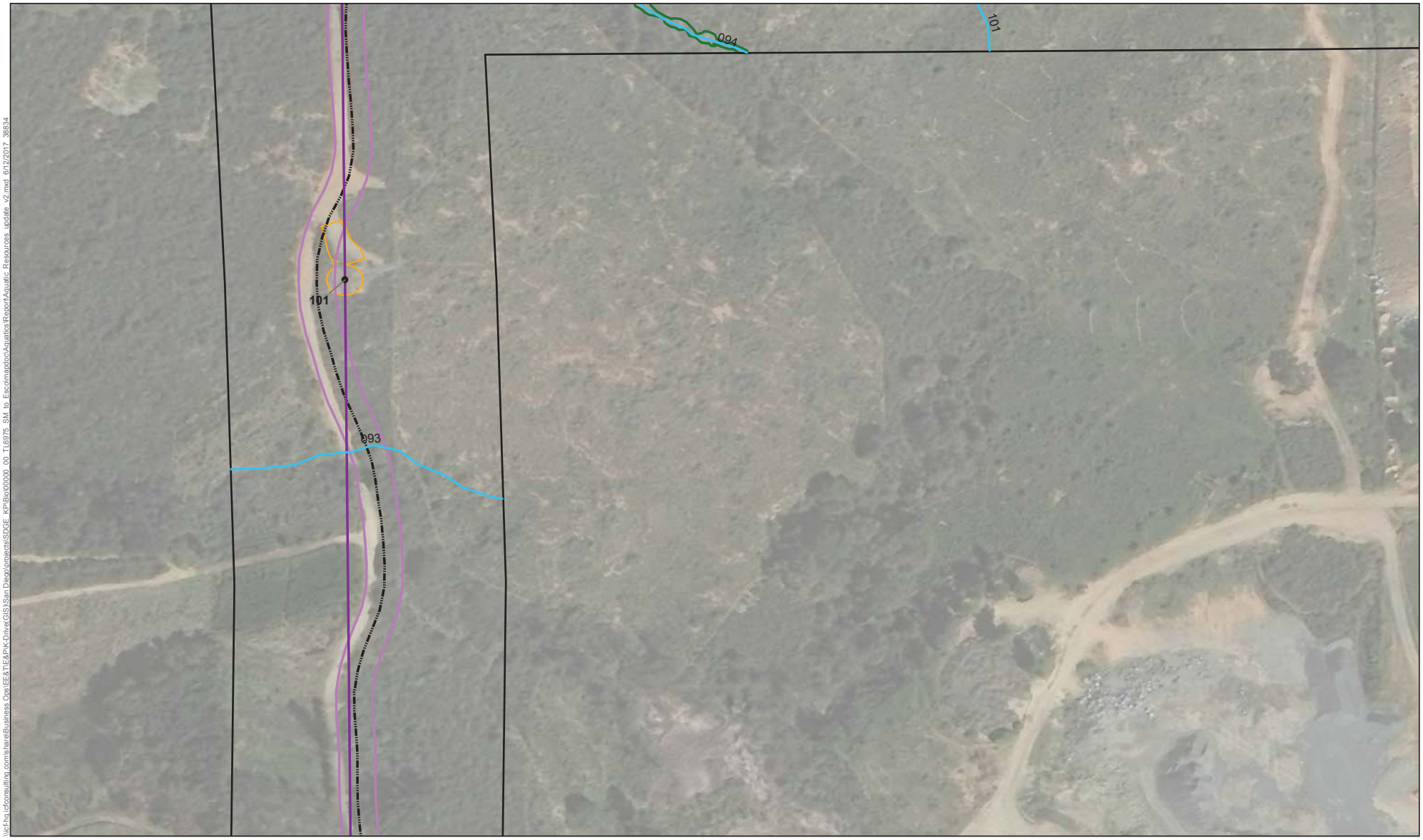
Culverts
Jurisdictional Waters (USACE/RWQCB/CDFW)
Ephemeral stream
CDFW Only Riparian
Project Components
Survey Area
Temporary Impacts
Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-48
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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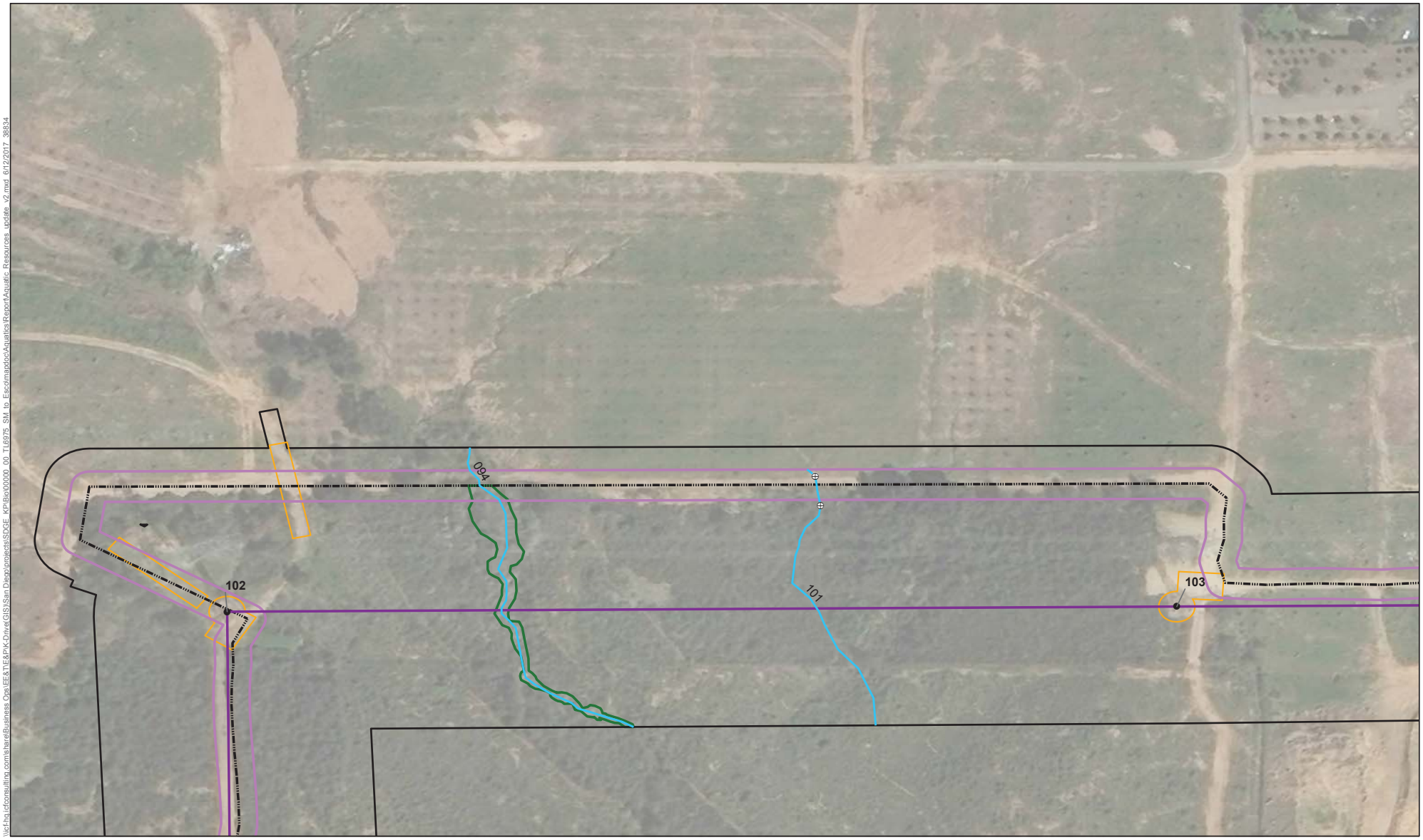
Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Wetland/Riparian

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-49
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Wetland/Riparian

Temporary Impacts

Access Roads

Project Components

Poles

Access Roads-40ft Buffer

Survey Area

Transmission Line

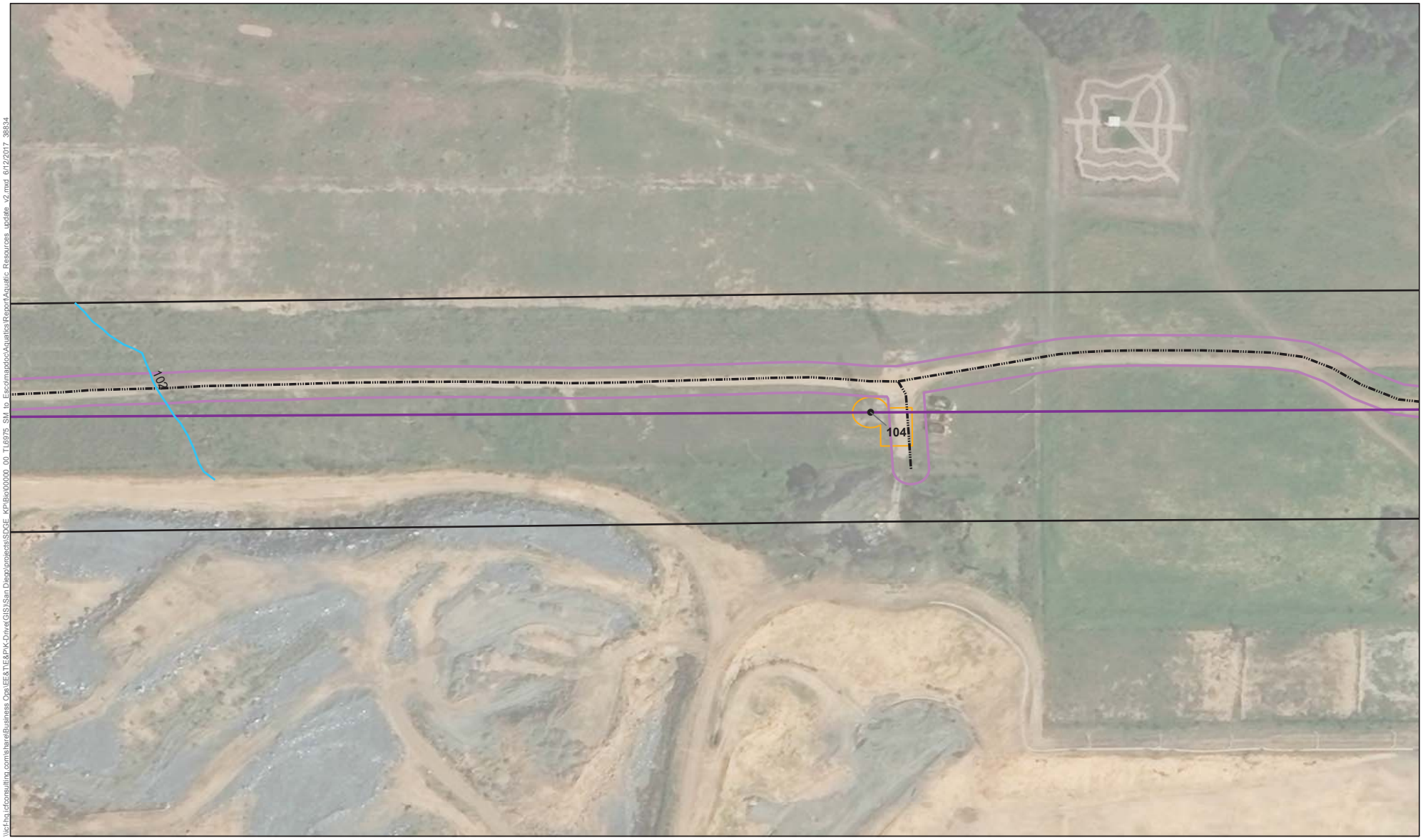
N

0 65 130

Feet

Figure 6b-50
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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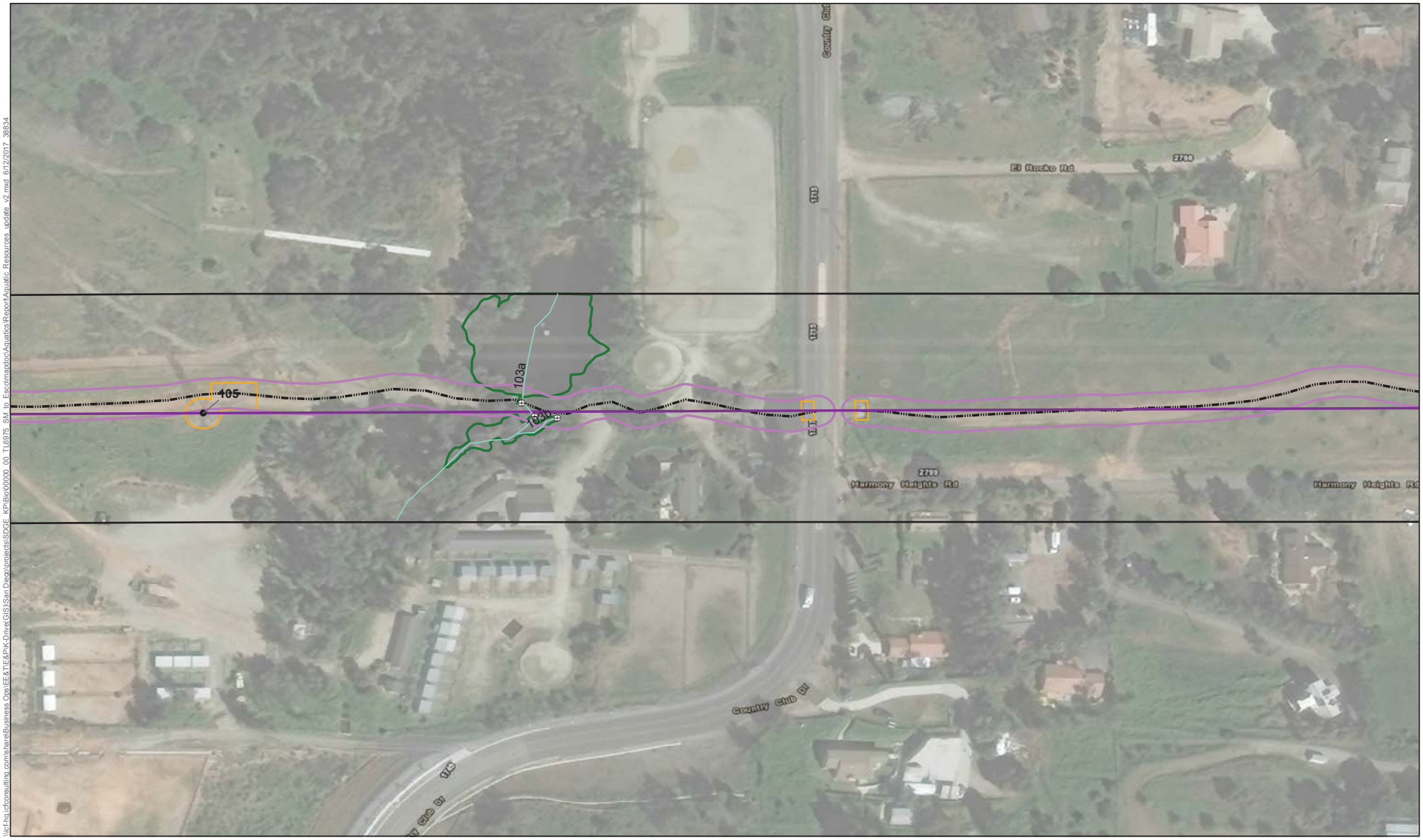
Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream

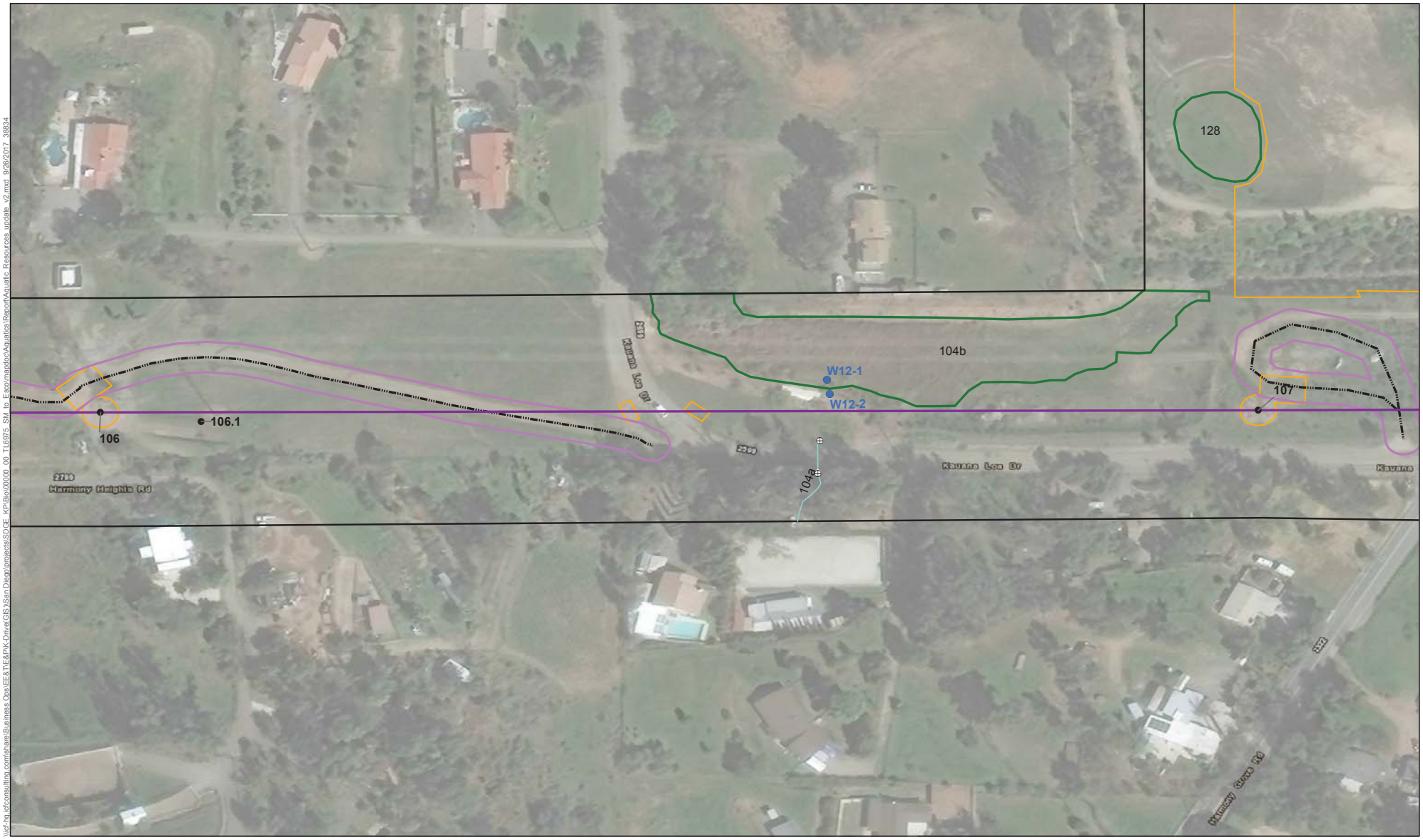
Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-51
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project


405
103a
103b
El Rocko Rd
2788
Harmony Heights Rd
2789
Country Club Dr
1103
1104
1105
1106
1107
1108
1109
1110
1111
1112
1113
1114
1115
1116
1117
1118
1119
1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1130
1131
1132
1133
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1139
1140
1141
1142



Culverts
Wetland Data Points
Jurisdictional Waters (USACE/RWQCB/CDFW)
Perennial stream
Wetland/Riparian
Project Components
Survey Area
Temporary Impacts
Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-53
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Project Components

- Survey Area
- Temporary Impacts
- Access Roads
- Access Roads-40ft Buffer

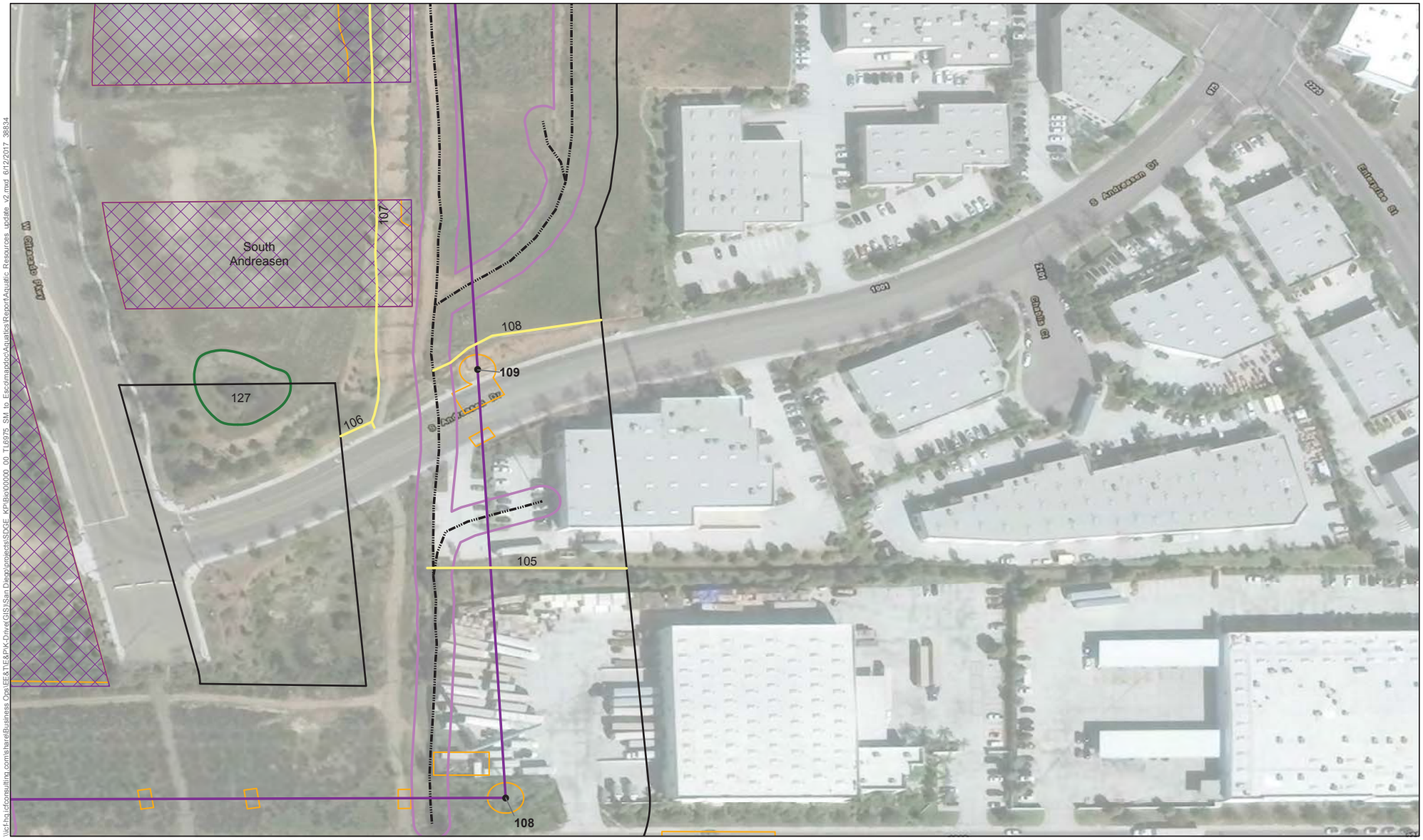
N

0 65 130

Feet

Figure 6b-54
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)
- Wetland/Riparian

Project Components
- Survey Area
- Staging Yard
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

Figure 6b-55
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Project Components
Temporary Impacts
Survey Area
Staging Yard

N

0 65 130
Feet

Figure 6b-56
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

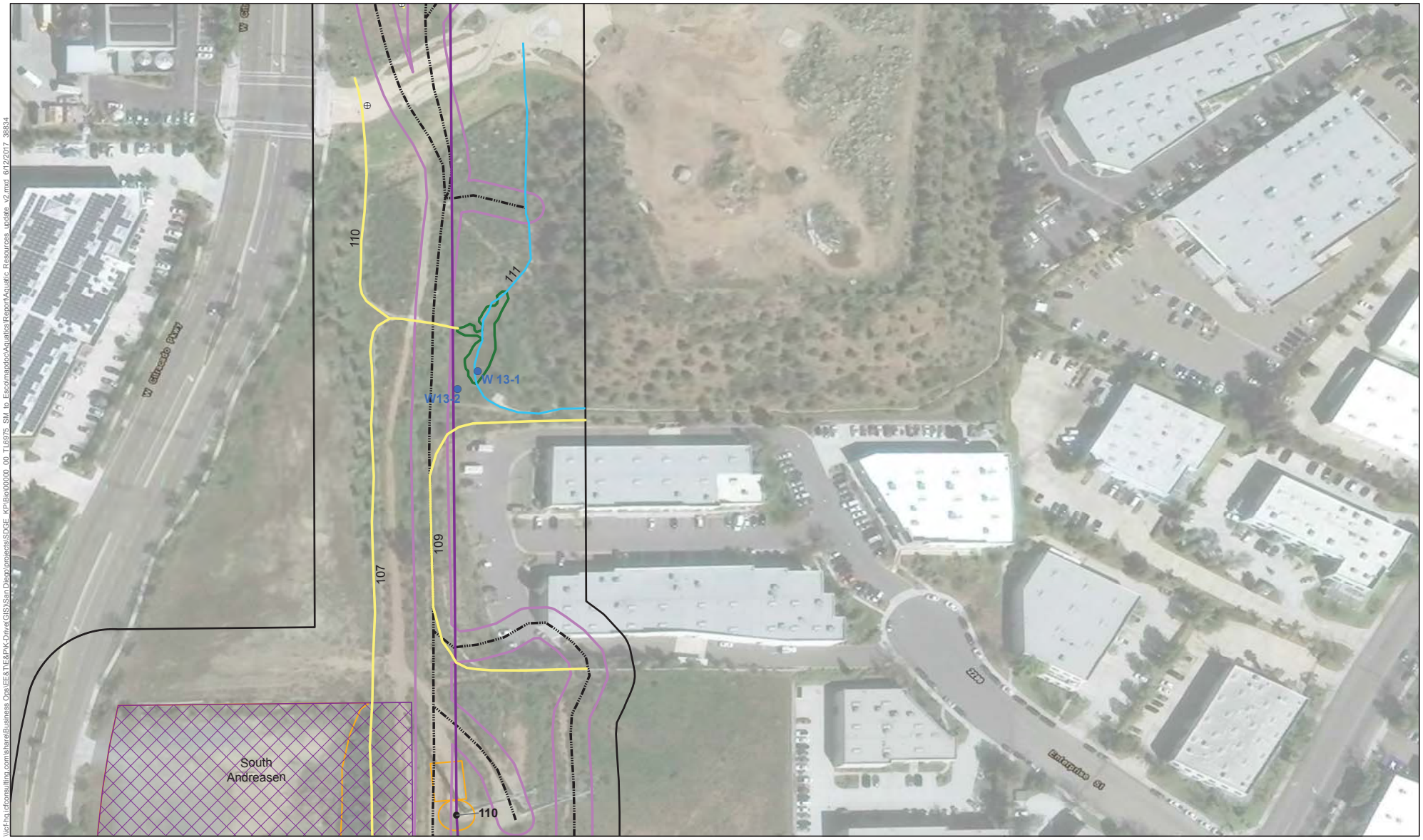
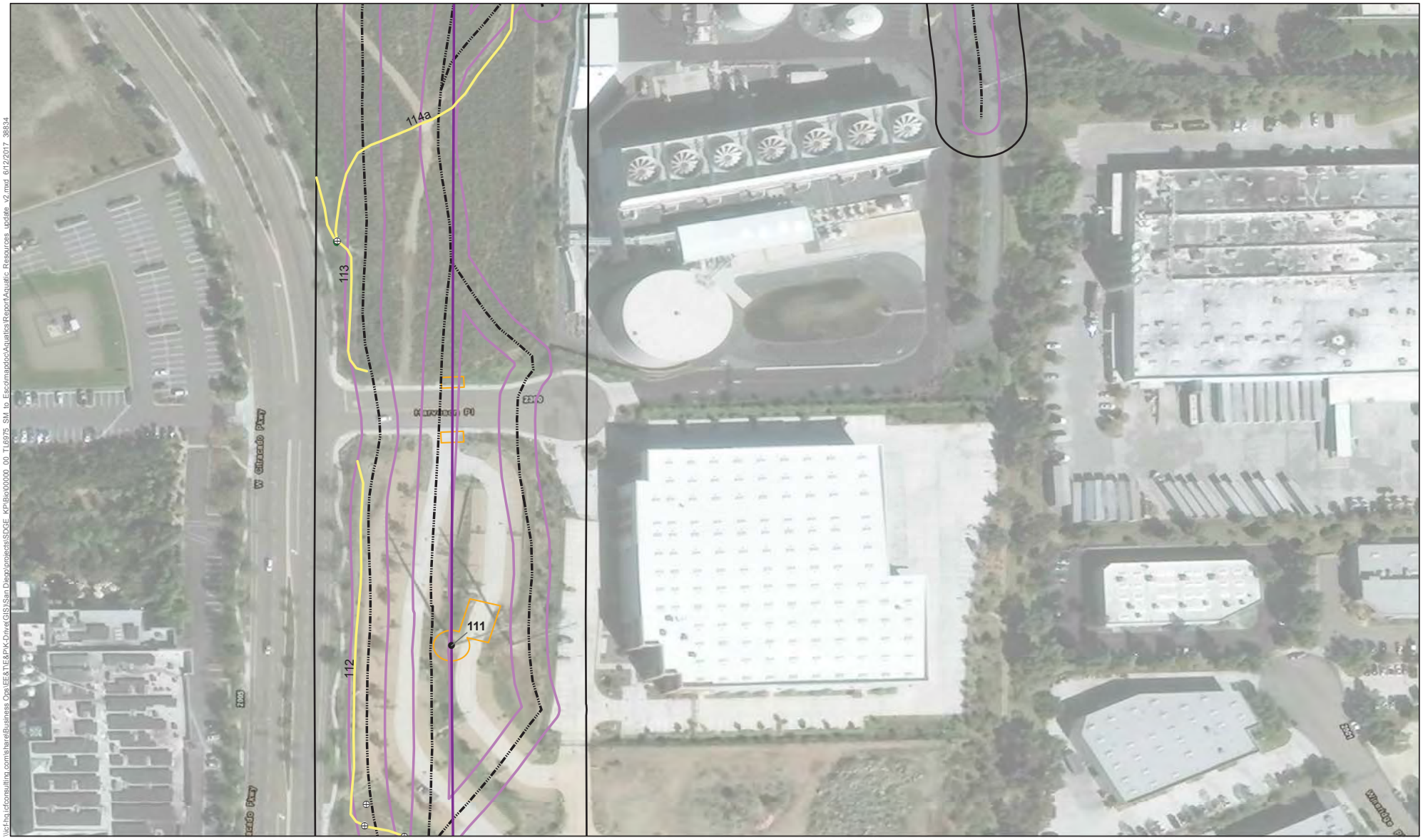


Figure 6b-57
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Culverts

Non-Jurisdictional Features

Concrete V-Ditch (BMP)

Wetland/Riparian

Project Components

Survey Area

Temporary Impacts

Poles

Transmission Line

Access Roads

Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-58
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

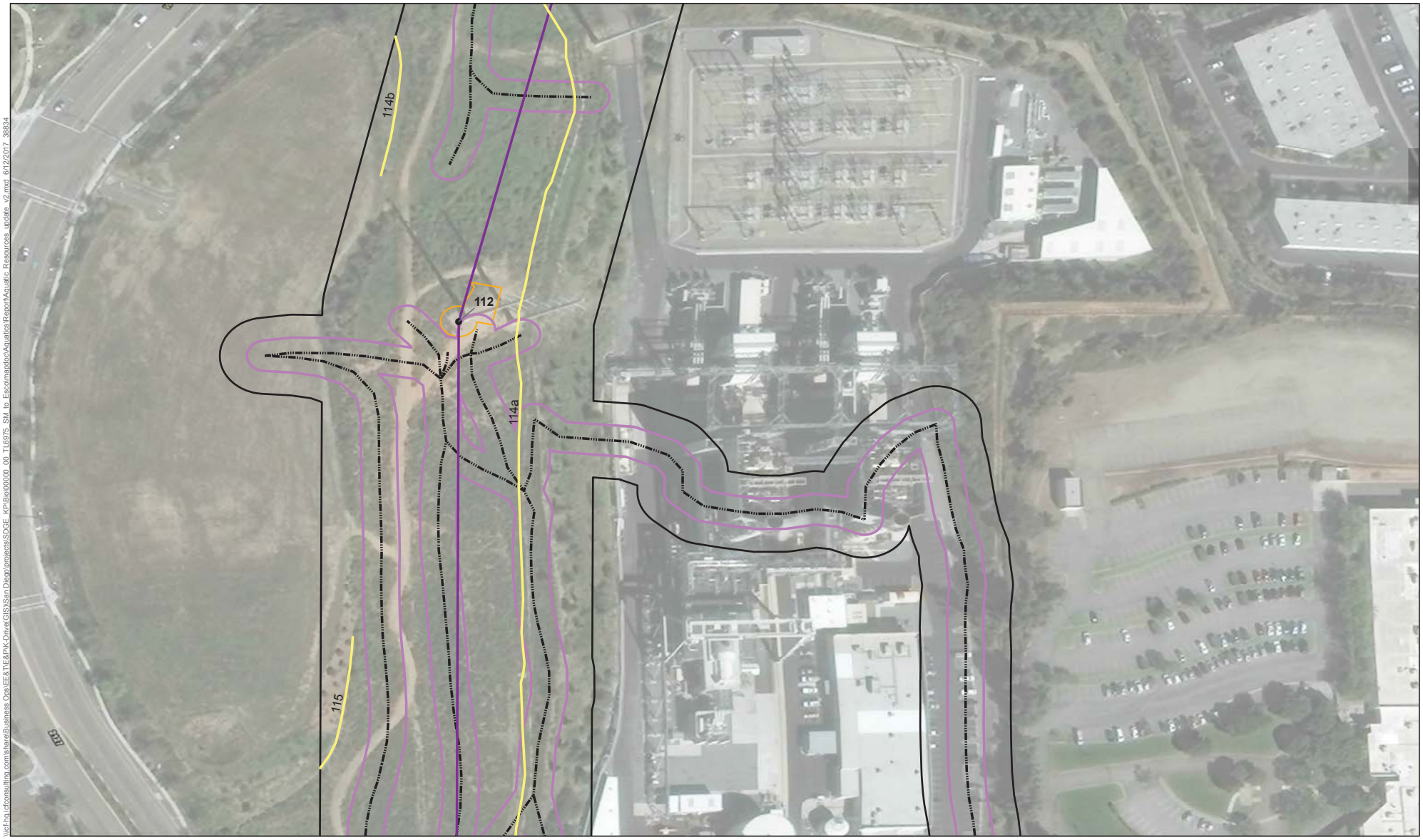
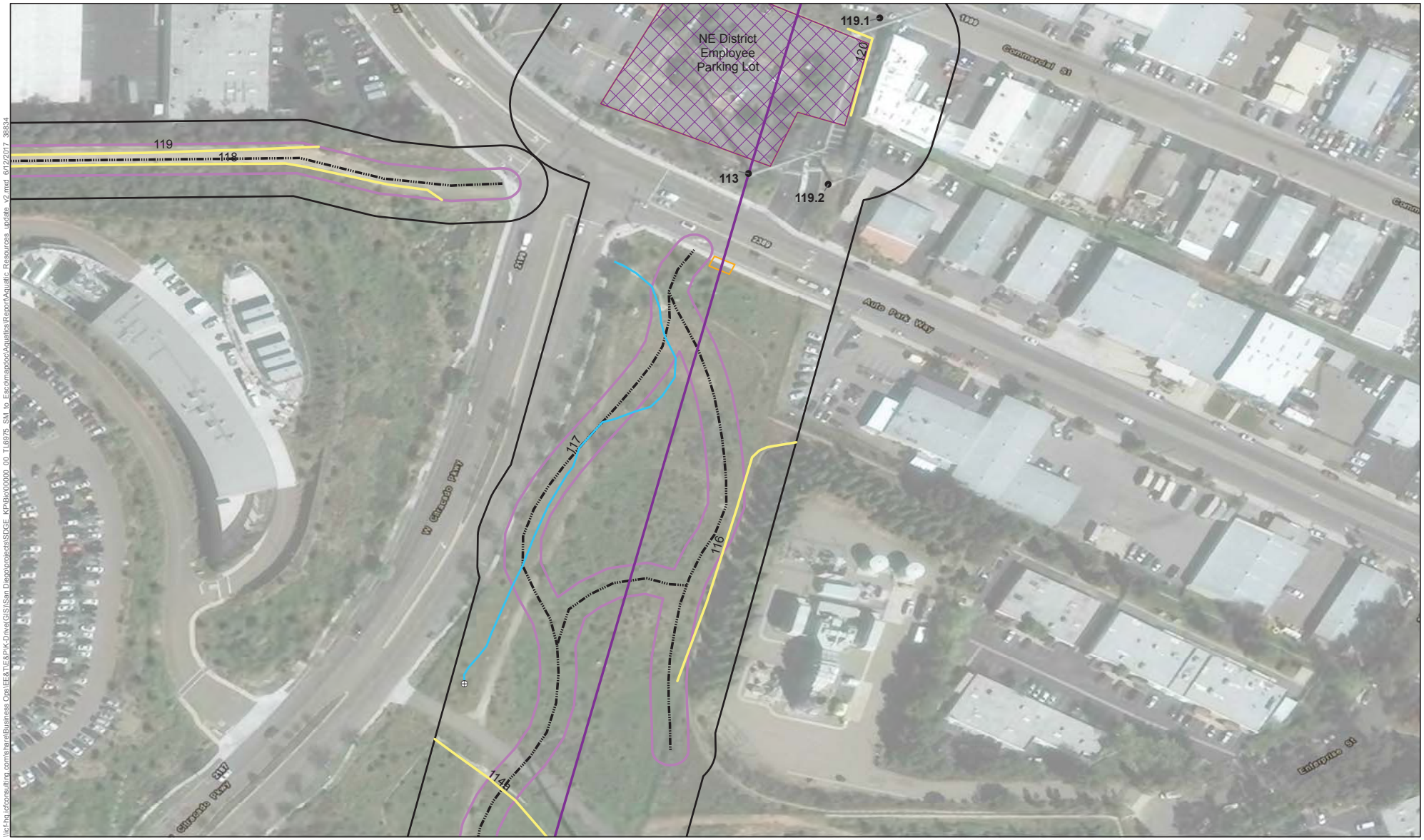


Figure 6b-59
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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ICF

- Culverts
- **Non-Jurisdictional Features**
  - Concrete V-Ditch (BMP)
- **Jurisdictional Waters (USACE/RWQCB/CDFW)**
  - Ephemeral stream
- **Project Components**
  - Survey Area
  - Staging Yard
  - Temporary Impacts
  - Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-60
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Project Components
- Survey Area
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-61
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Project Components
- Survey Area
- Staging Yard

Project Components
- Permanent Impacts
- Temporary Impacts

- Poles
- Transmission Line

N

0 65 130
Feet

Figure 6b-62
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Figure 6b-63
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Access Roads

Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-64
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-65
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Montiel
& Rock
Springs
Rock Springs Rd
Montiel Rd
Escondido Fwy
Bandy Dr
Gamble Dr
Dooley Rd
Calle Dr
Via
Via
Via



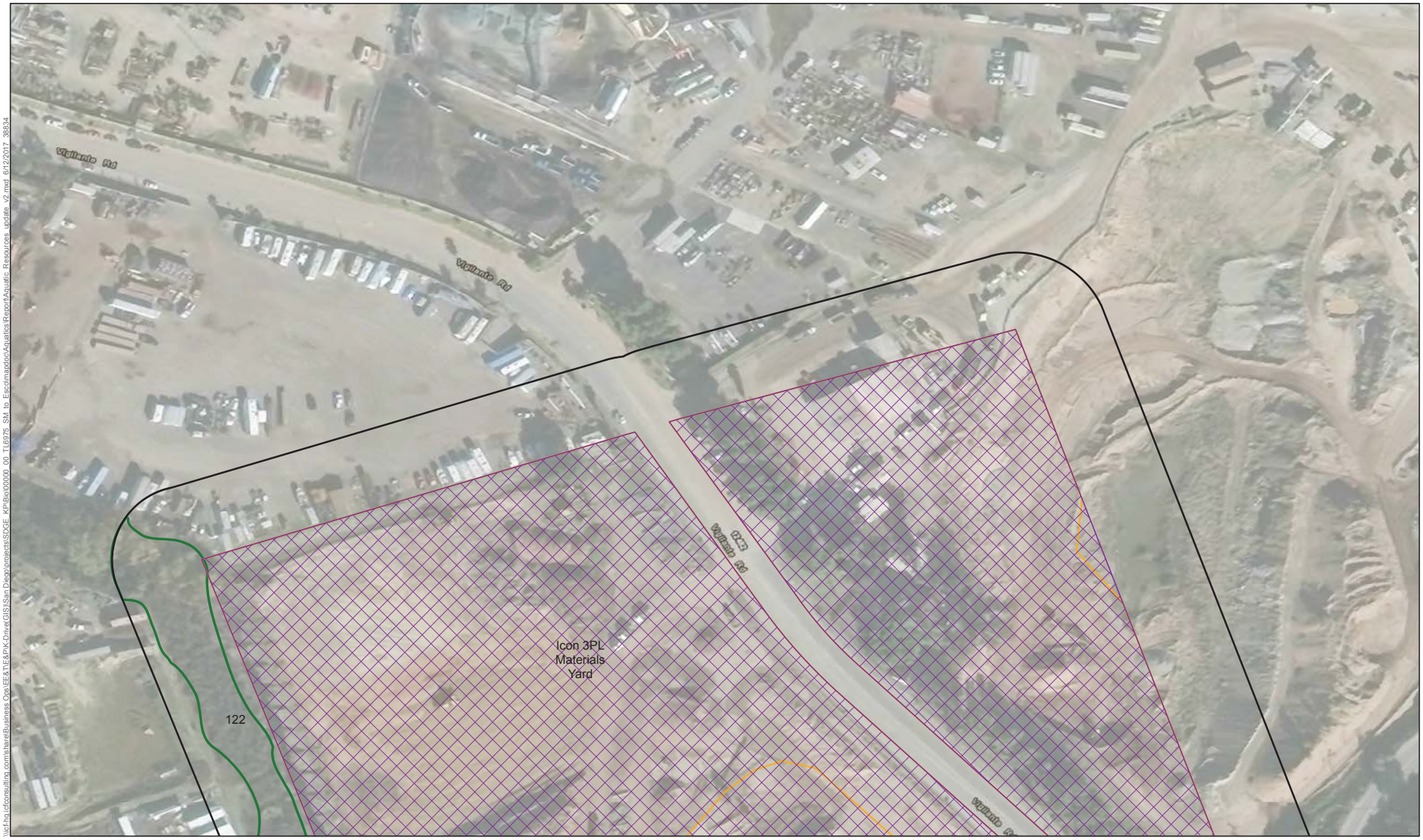
Project Components
Temporary Impacts
Survey Area
Staging Yard

N

0 65 130
Feet

Figure 6b-67
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Wetland/Riparian
Staging Yard
Project Components
Temporary Impacts
Survey Area

N

0 65 130
Feet

Figure 6b-68
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Wetland/Riparian
Staging Yard
Project Components
Temporary Impacts
Survey Area

N

0 65 130
Feet

Figure 6b-69
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Project Components
Temporary Impacts
Survey Area
Staging Yard

N

0 65 130
Feet

Figure 6b-70
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Jurisdictional Waters (USACE/RWQCB/CDFW)

- Swale
- Wetland/Riparian

Project Components

- Survey Area
- Temporary Impacts

N

0 65 130
Feet

Figure 6b-71
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Project Components
- Temporary Impacts
- Survey Area
- Staging Yard

N

0 65 130
Feet

Figure 6b-72
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Wetland Data Points
Non-Jurisdictional Features
Concrete V-Ditch (BMP)
Jurisdictional Waters (USACE/RWQCB/CDFW)
Perennial stream
Wetland/Riparian
Project Components
Survey Area
Project Components
Permanent Impacts
Temporary Impacts
Poles
Transmission Line

N

0 65 130
Feet

Figure 6b-02
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Project Components
- Survey Area

Project Components
- Permanent Impacts
- Temporary Impacts

- Poles
- Transmission Line

N

0 65 130
Feet

Figure 6b-03
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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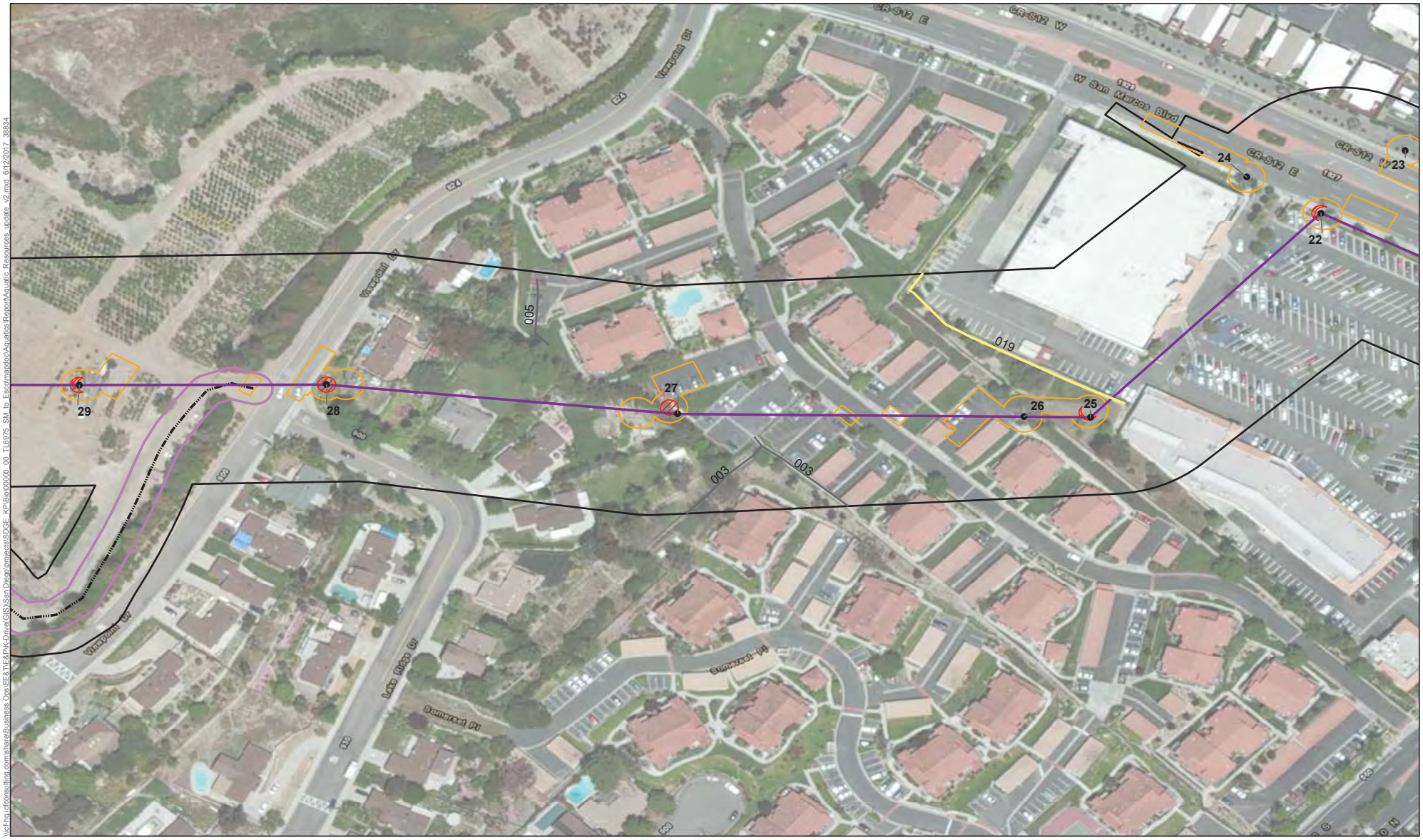
Culverts
Wetland Data Points
Jurisdictional Waters (USACE/RWQCB/CDFW)
Ephemeral stream
Concrete Lined Ephemeral Stream
Intermittent stream
Perennial stream
Swale
Wetland/Riparian
Project Components
Survey Area
Project Components
Permanent Impacts
Temporary Impacts
Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-04
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Jurisdictional Waters (USACE/RWQCB/CDFW)
- Concrete Lined Ephemeral Stream

Project Components
- Survey Area
- Permanent Impacts
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-05
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Figure 6b-07
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Project Components
- Survey Area
- Staging Yard
- Permanent Impacts
- Temporary Impacts
- Poles
- Transmission Line

N

0 65 130
Feet

Figure 6b-08
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Culverts
Wetland Data Points

Non-Jurisdictional Features
Concrete V-Ditch (BMP)

Jurisdictional Waters (USACE/RWQCB/CDFW)
Ephemeral stream
Intermittent stream
Perennial stream
Wetland/Riparian

Project Components
Survey Area

Project Components
Permanent Impacts
Temporary Impacts

Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

Figure 6b-10
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Culverts
Non-Jurisdictional Features
Concrete V-Ditch (BMP)
Jurisdictional Waters (USACE/RWQCB/CDFW)
Ephemeral stream
Project Components
Survey Area
Project Components
Permanent Impacts
Temporary Impacts
Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N
0 65 130
Feet

Figure 6b-11
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Culverts

Non-Jurisdictional Features

Concrete V-Ditch (BMP)

Project Components

Survey Area

Project Components

Permanent Impacts

Temporary Impacts

Poles

Transmission Line

Access Roads

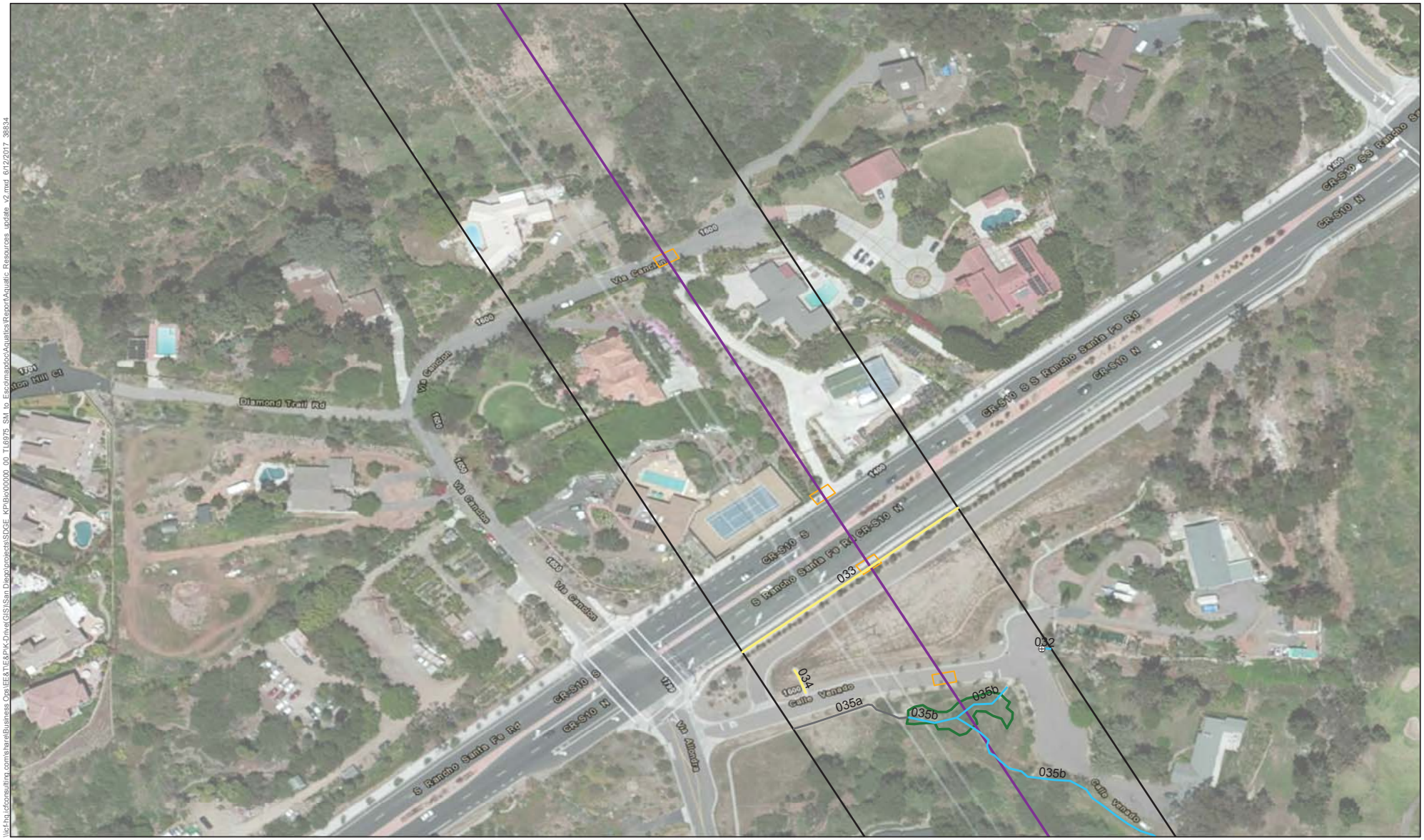
Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-12
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Wetland/Riparian

Temporary Impacts

Non-Jurisdictional Features

Ephemeral stream

Project Components

Transmission Line

Concrete V-Ditch (BMP)

Concrete Lined Ephemeral Stream

Survey Area

N

0 65 130

Feet

Figure 6b-13
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Swale

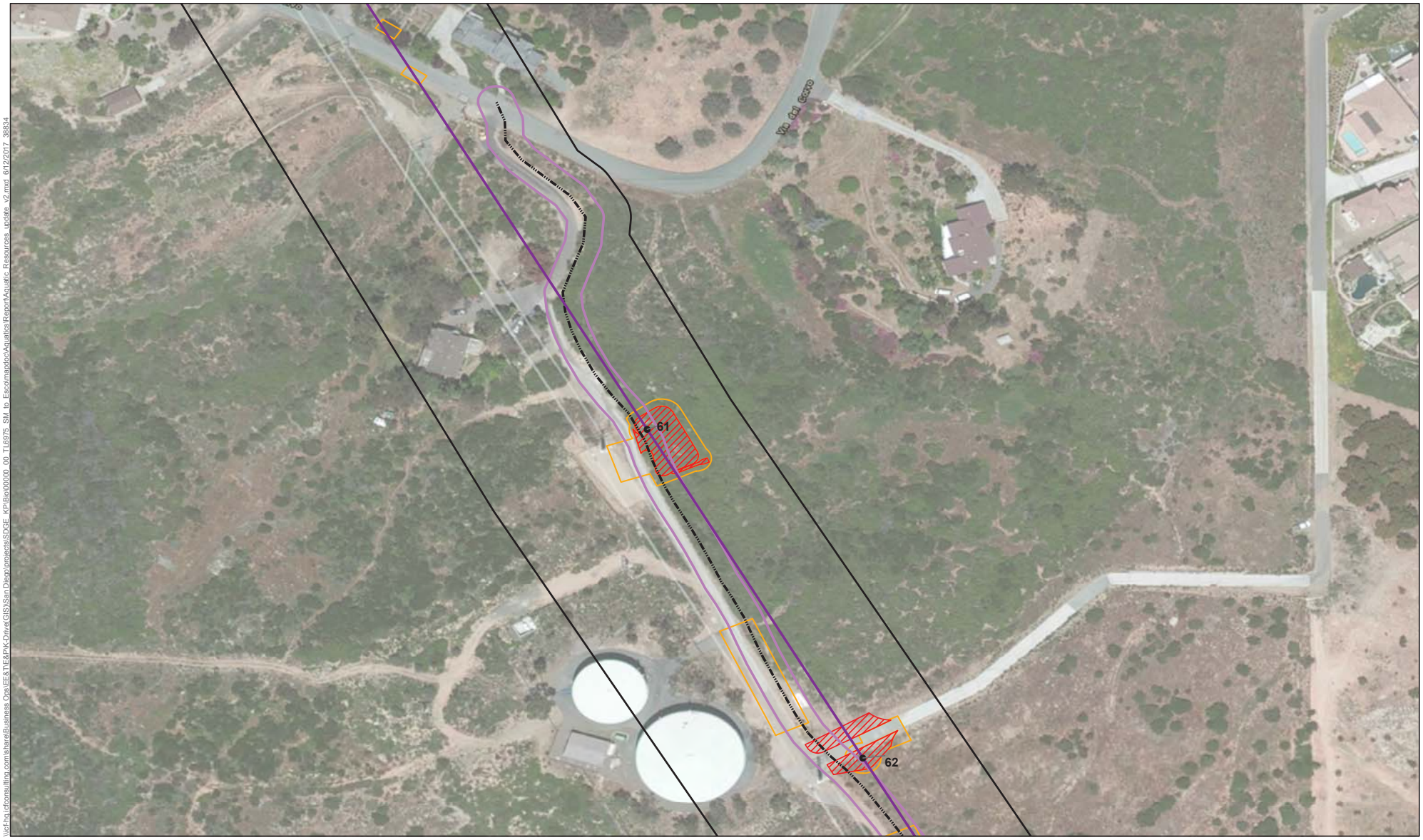
Project Components
- Survey Area
- Permanent Impacts
- Temporary Impacts
- Poles
- Transmission Line

N

0 65 130
Feet

Figure 6b-14
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Project Components
- Survey Area

Project Components
- Permanent Impacts
- Temporary Impacts

- Poles
- Transmission Line
- Access Roads

- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-15
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Erosional rill

Project Components
- Survey Area

Project Components
- Permanent Impacts
- Temporary Impacts

- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-16
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Culverts

Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Swale
- Wetland/Riparian

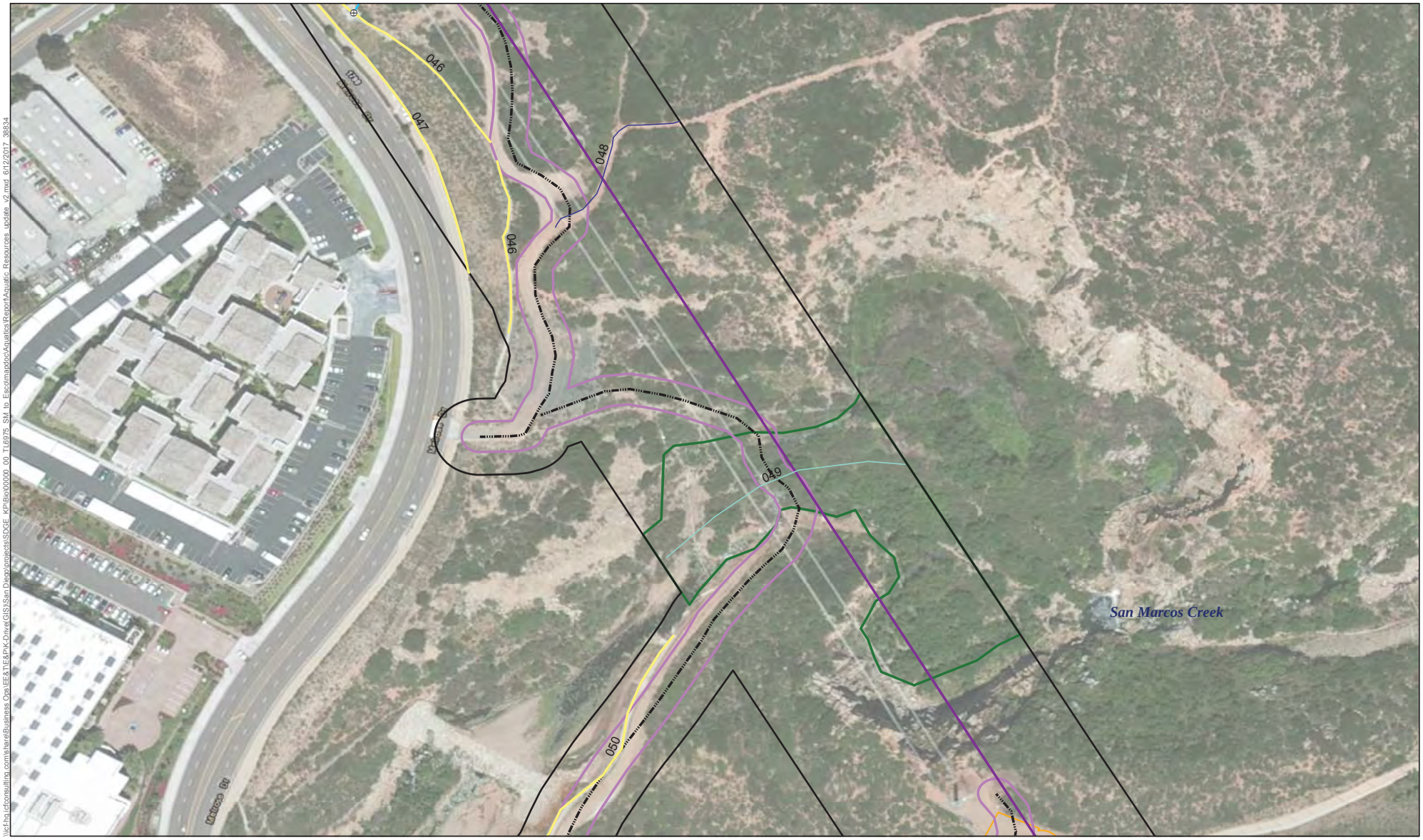
Project Components
- Survey Area

Project Components
- Permanent Impacts
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-17
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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- Culverts
- **Non-Jurisdictional Features**
  - Concrete V-Ditch (BMP)
- **Jurisdictional Waters (USACE/RWQCB/CDFW)**
  - Ephemeral stream
  - Erosional rill
  - Perennial stream
  - Wetland/Riparian
- **Project Components**
  - Survey Area
  - Temporary Impacts
  - Transmission Line
  - Access Roads
  - Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-18
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Wetland Data Points
Non-Jurisdictional Features
Concrete V-Ditch (BMP)
Jurisdictional Waters (USACE/RWQCB/CDFW)
Concrete Lined Ephemeral Stream

Project Components
Survey Area
Project Components
Permanent Impacts
Temporary Impacts

Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

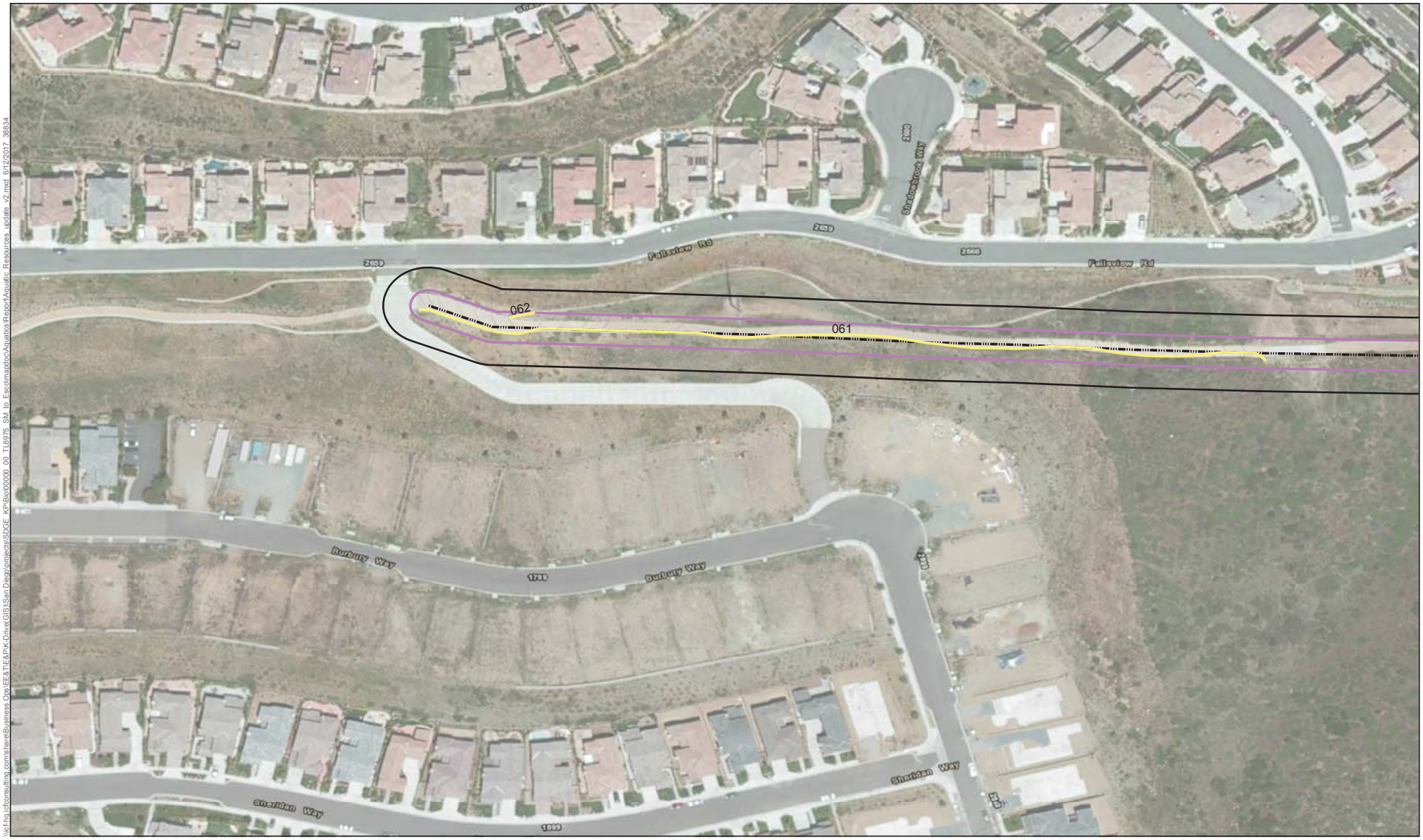
Figure 6b-19
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Figure 6b-20
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Non-Jurisdictional Features
Concrete V-Ditch (BMP)

Project Components
Survey Area
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-22
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Project Components

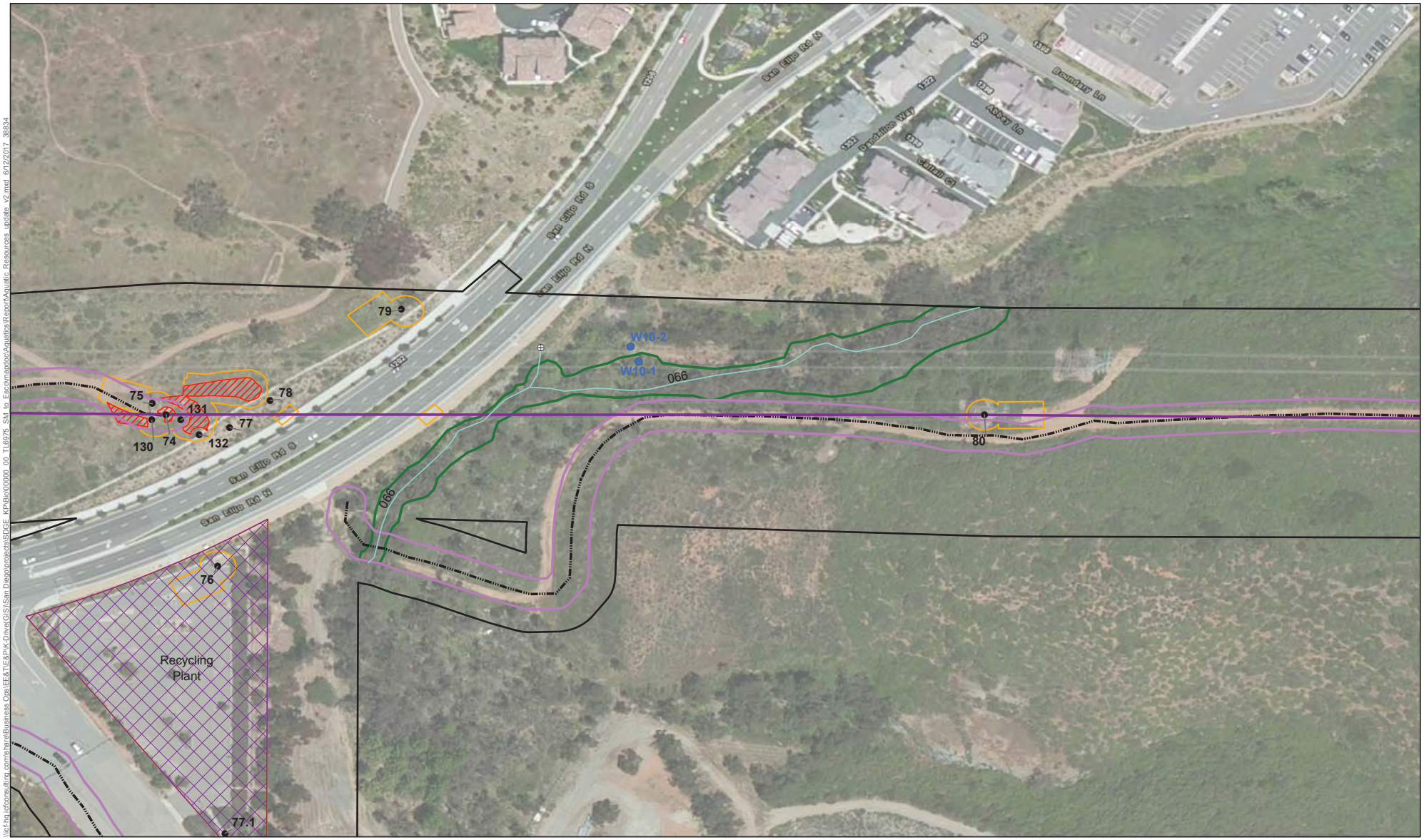
- Survey Area
- Poles
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-23
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project


Via Rancho Pkwy
Via Rancho Pkwy
Via Rancho Pkwy



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Jurisdictional Waters (USACE/RWQCB/CDFW)
Swale

Project Components
Survey Area
Staging Yard
Temporary Impacts
Poles
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-25
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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⊕ Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Swale

Project Components

Survey Area

Staging Yard

Temporary Impacts

Access Roads

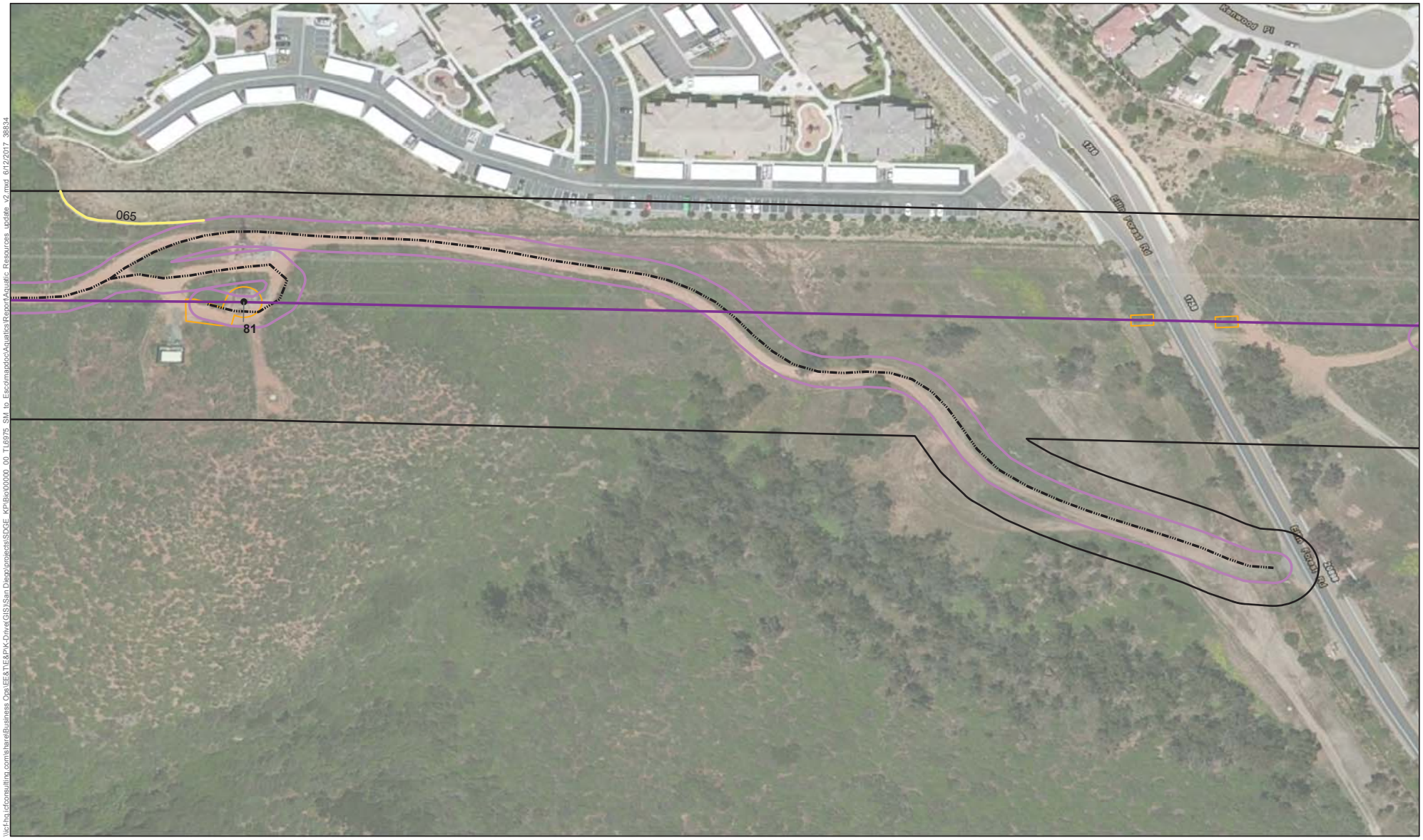
Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-26
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-27
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Project Components
- Access Roads-40ft Buffer
- Survey Area
- Access Roads

N

0 65 130
Feet

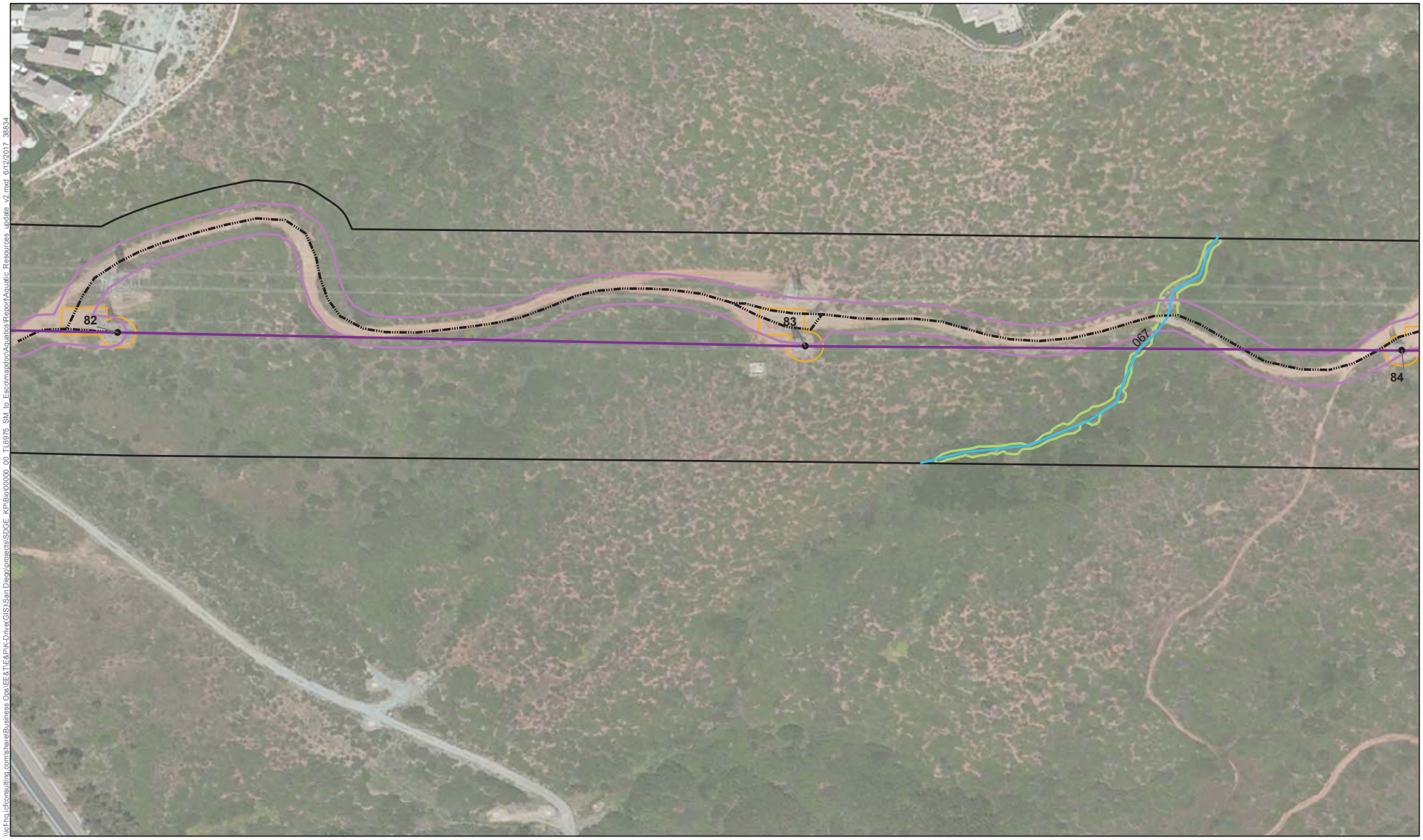
Figure 6b-28
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Project Components
Access Roads-40ft Buffer
Survey Area
Access Roads

N
0 65 130
Feet

Figure 6b-29
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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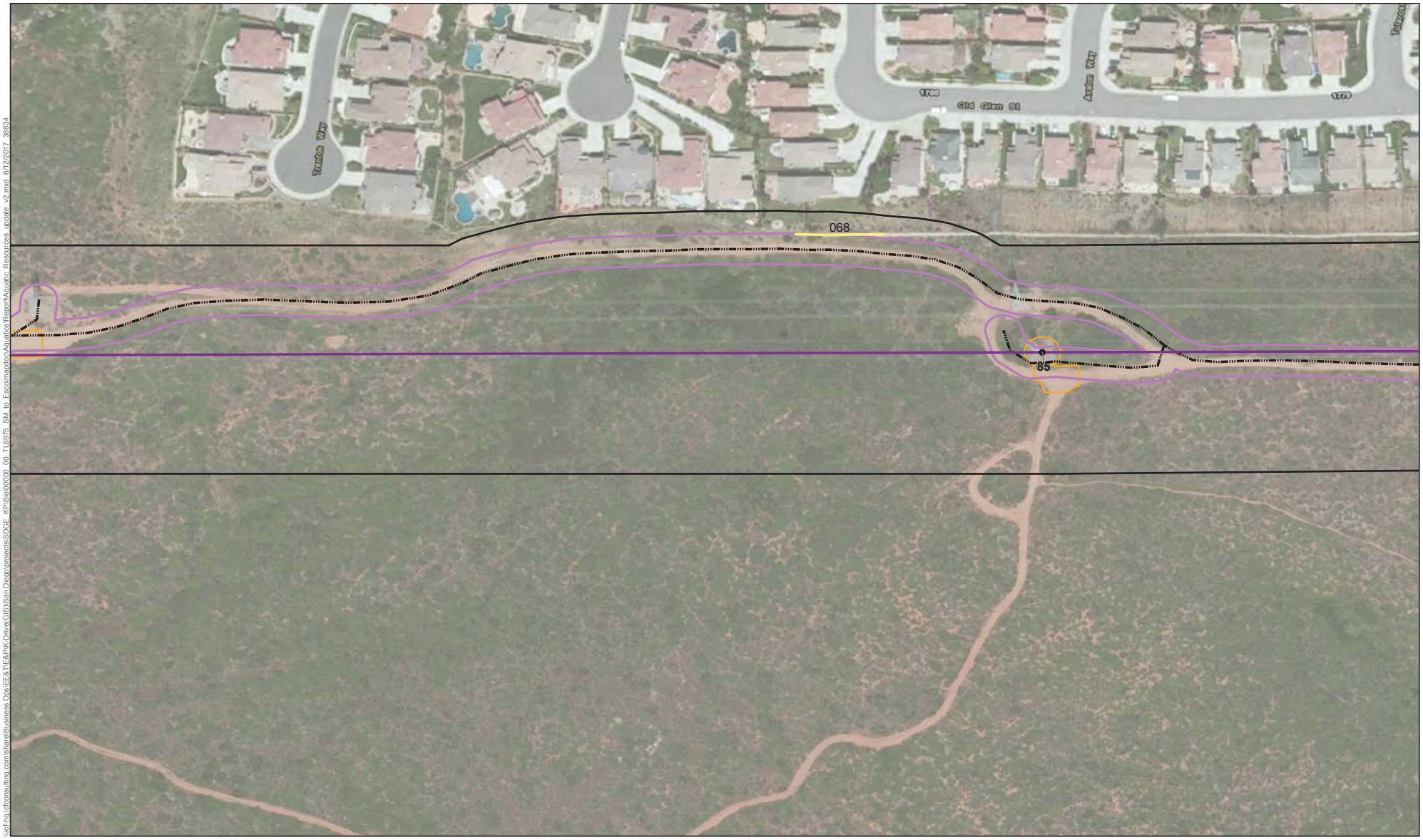
Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- CDFW Only Riparian

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-30
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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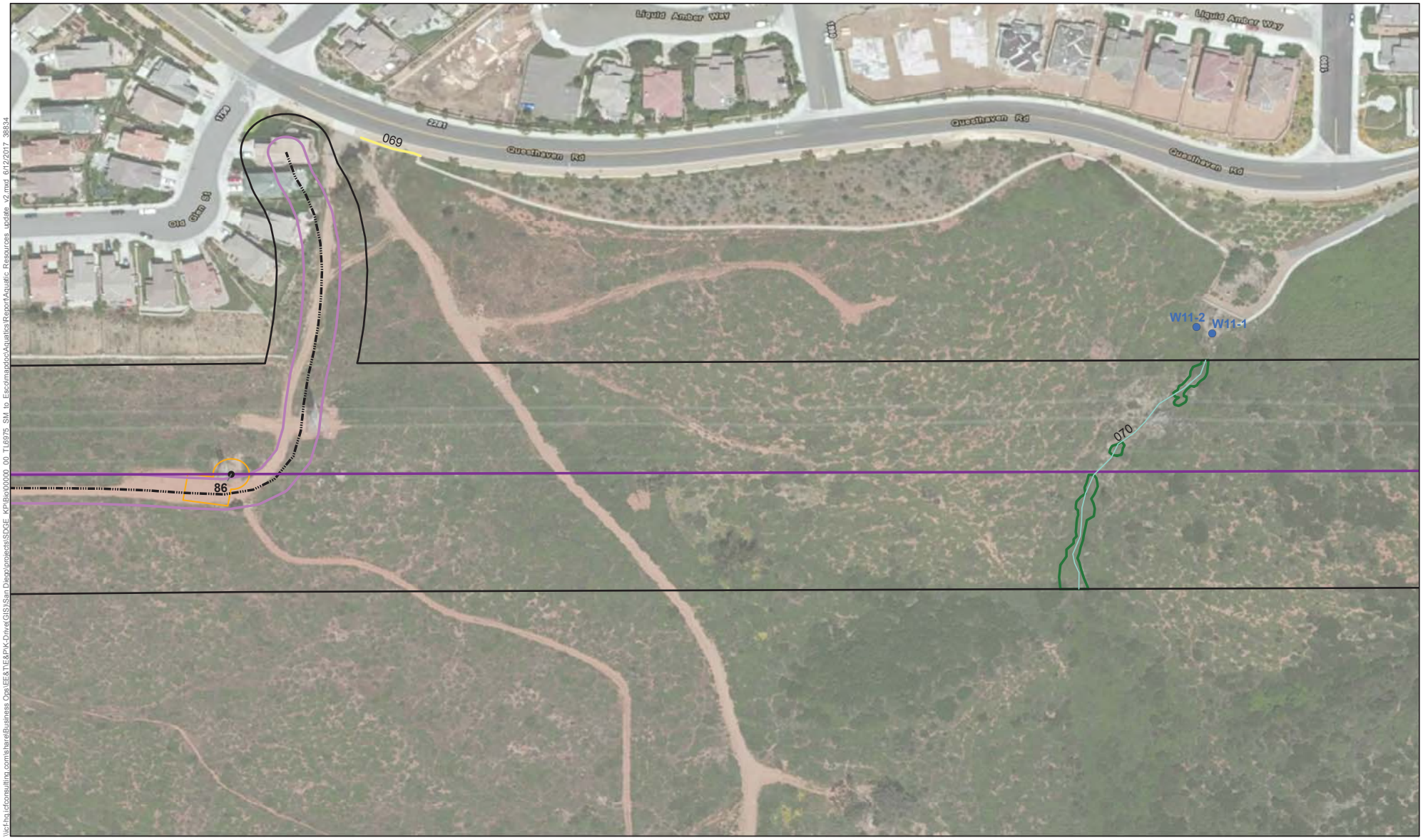
Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-31
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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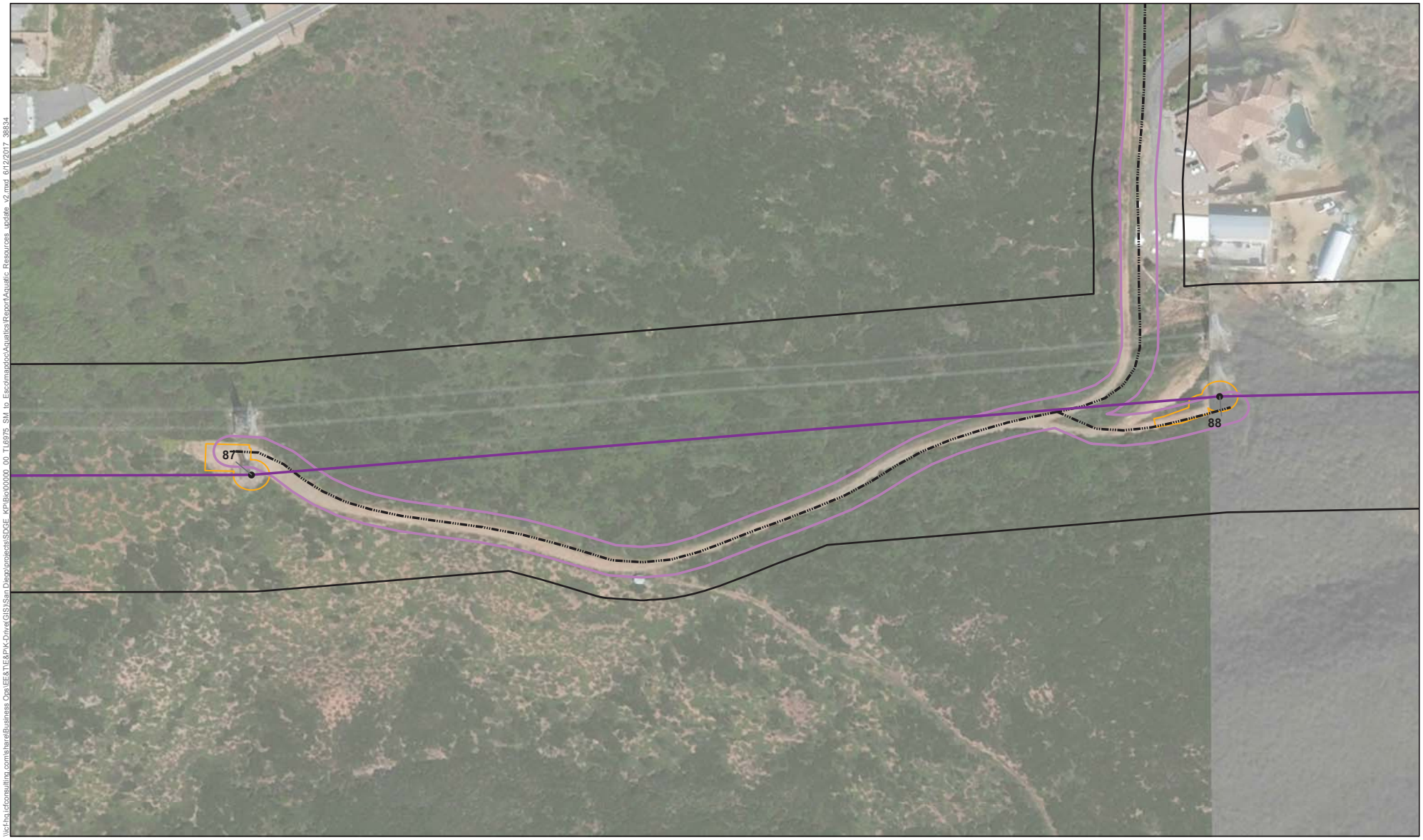
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- Wetland Data Points
- **Non-Jurisdictional Features**
  - Concrete V-Ditch (BMP)
- **Jurisdictional Waters (USACE/RWQCB/CDFW)**
  - Perennial stream
  - Wetland/Riparian
- **Project Components**
  - Survey Area
  - Temporary Impacts
  - Poles
  - Transmission Line
  - Access Roads
  - Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-32
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Project Components

- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-33
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Figure 6b-34
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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ICF

Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Project Components

Survey Area

Temporary Impacts

Poles

Transmission Line

Access Roads

Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-35
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Project Components

Survey Area

Transmission Line

Access Roads

Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-36
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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⊕ Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Project Components

Access Roads-40ft Buffer

Survey Area

Access Roads

N

0 65 130

Feet

Figure 6b-37
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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ICF

Culverts
Erosional rill
Temporary Impacts
Access Roads

Jurisdictional Waters (USACE/RWQCB/CDFW)
Ephemeral stream

Project Components
Survey Area
Poles
Transmission Line
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-38
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Figure 6b-39
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Project Components

Access Roads-40ft Buffer

Survey Area

Access Roads

N

0 65 130

Feet

Figure 6b-40
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Erosional rill

Project Components
- Survey Area
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-41
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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ICF

Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Project Components

Survey Area

Temporary Impacts

Poles

Transmission Line

Access Roads

Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-42
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Jurisdictional Waters (USACE/RWQCB/CDFW)
Swale

Project Components
Survey Area
Temporary Impacts
Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-43
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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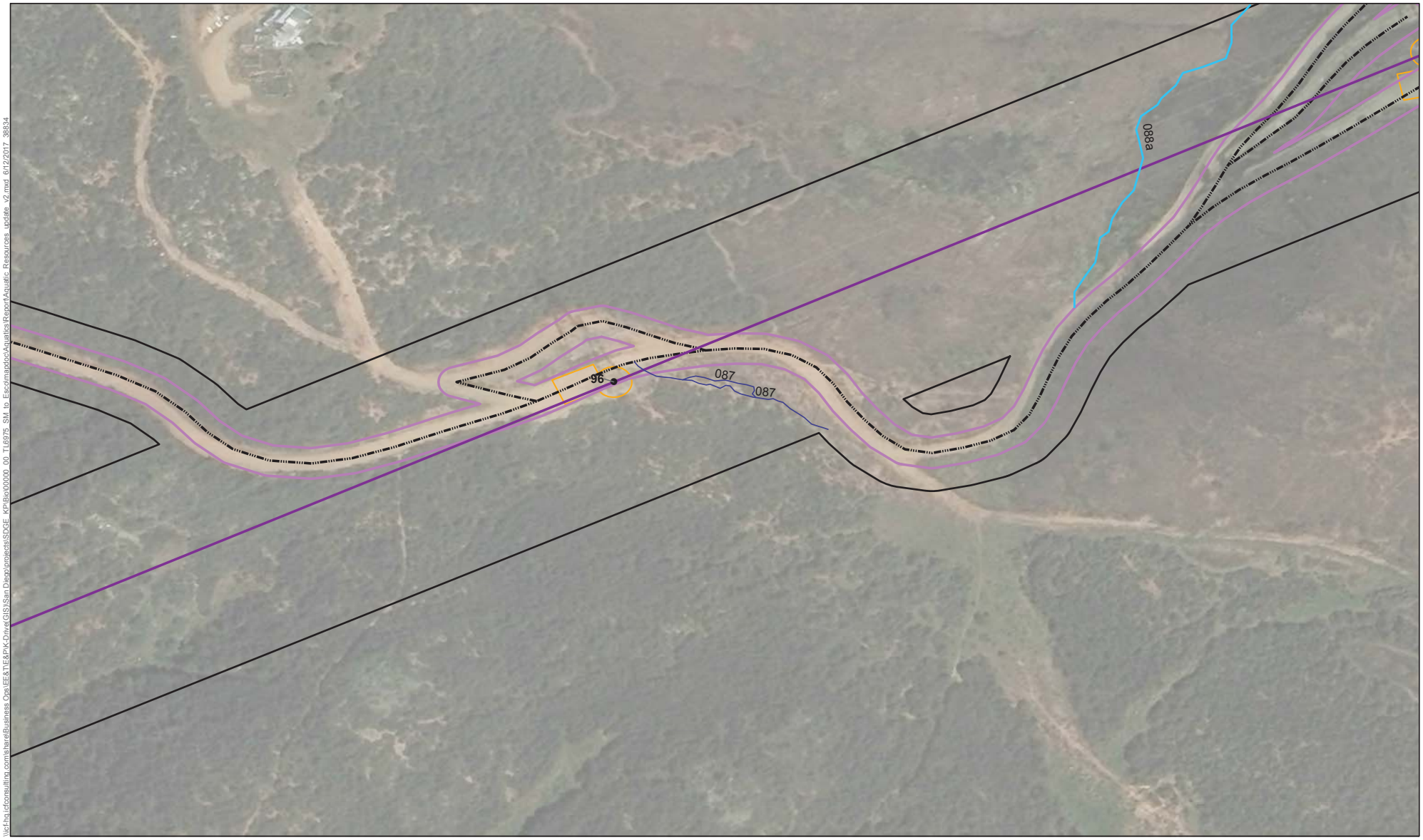
Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-44
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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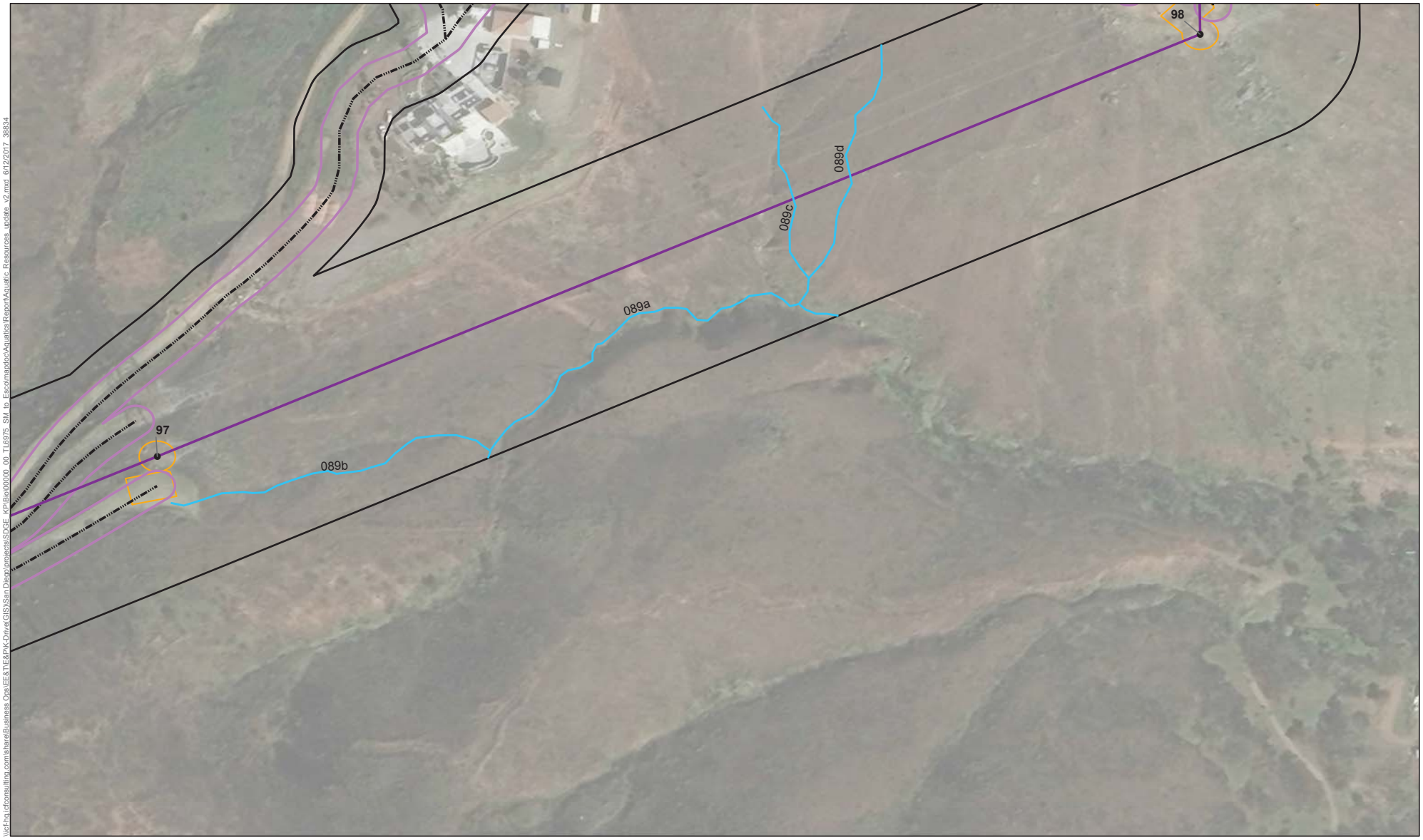
Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Erosional rill

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-45
Jurisdictional Delineation Maps
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Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-46
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Wetland/Riparian

CDFW Only Riparian

Project Components

Survey Area

Temporary Impacts

Transmission Line

Access Roads

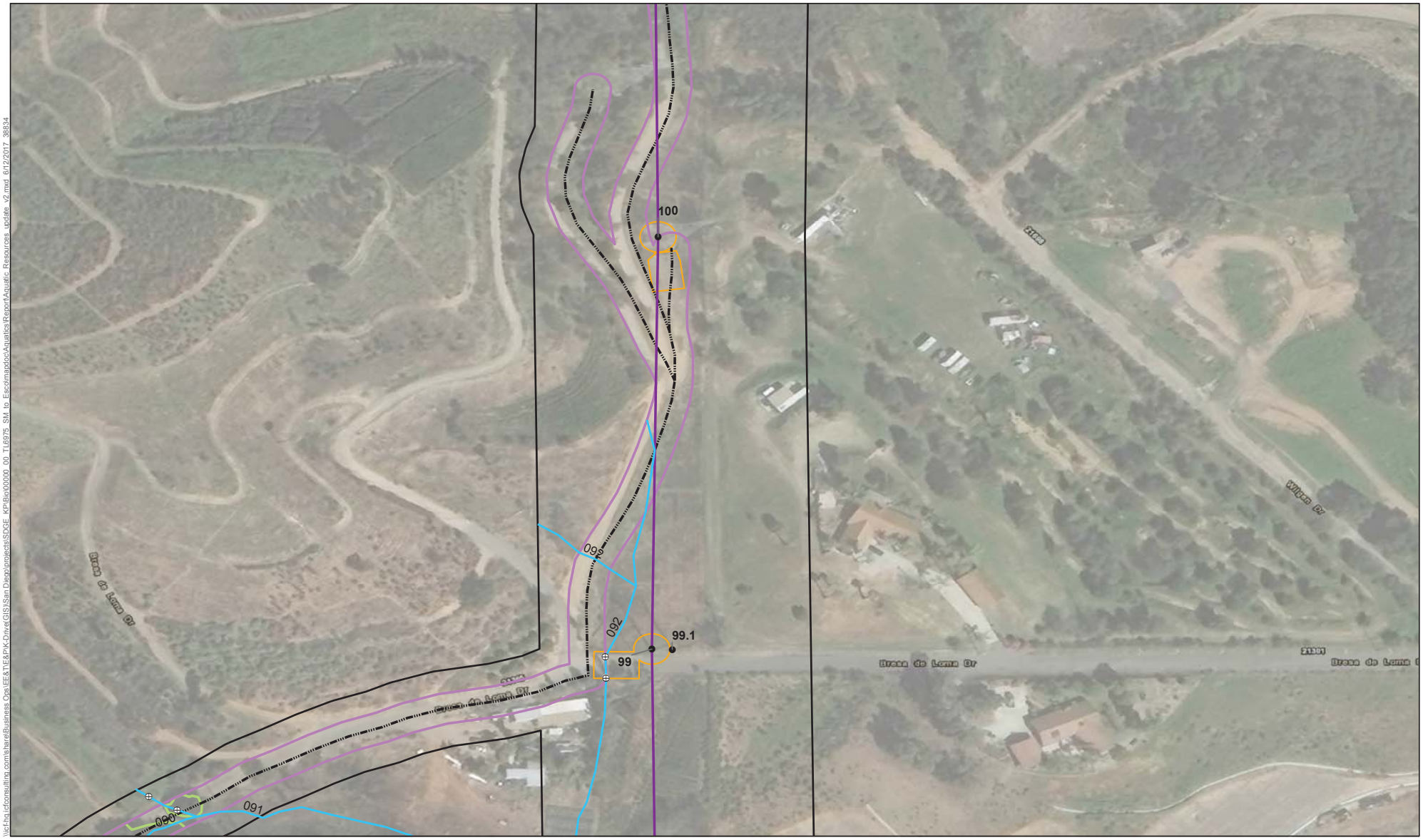
Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-47
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



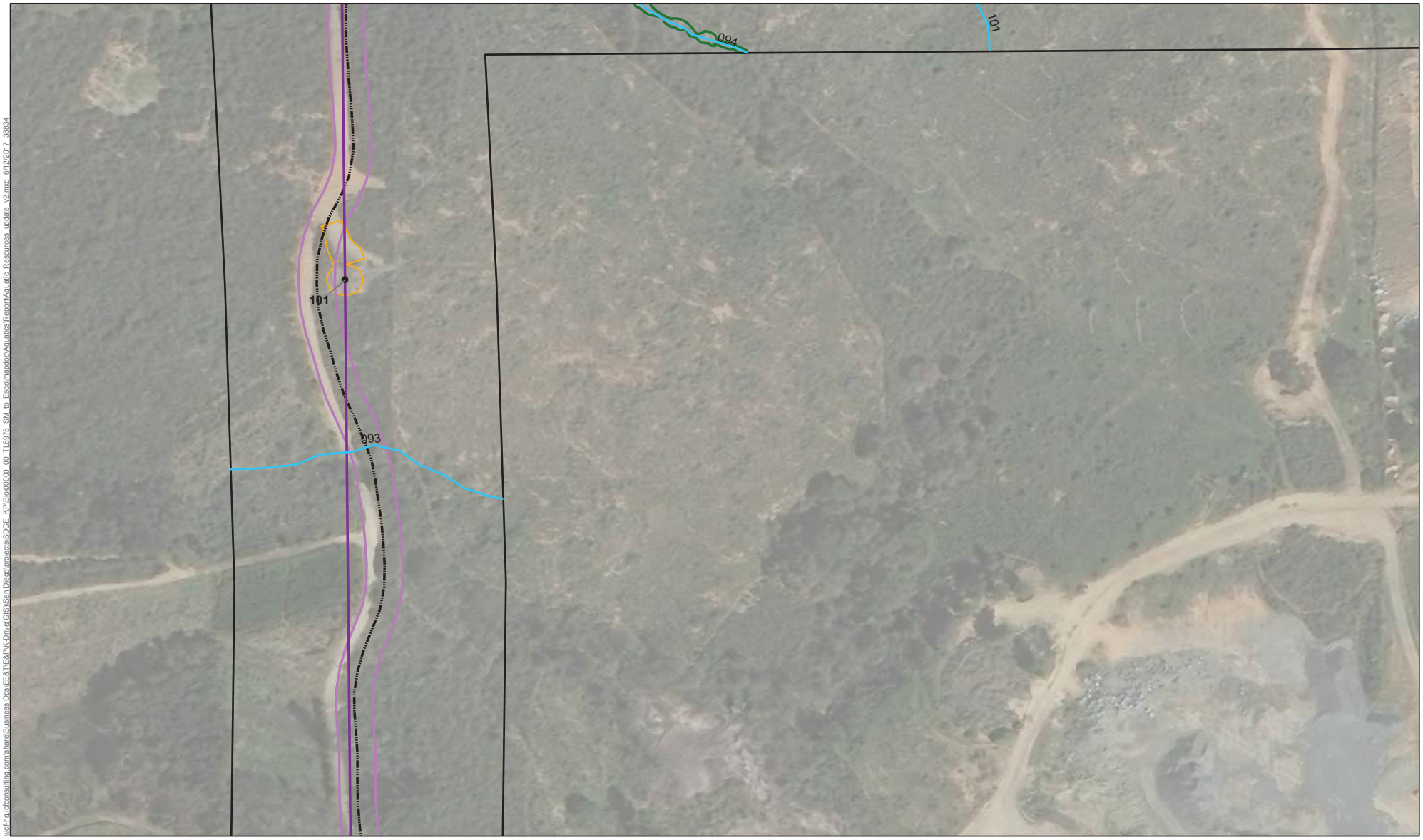
Culverts
Jurisdictional Waters (USACE/RWQCB/CDFW)
Ephemeral stream
CDFW Only Riparian
Project Components
Survey Area
Temporary Impacts
Poles
Transmission Line
Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-48
Jurisdictional Delineation Maps
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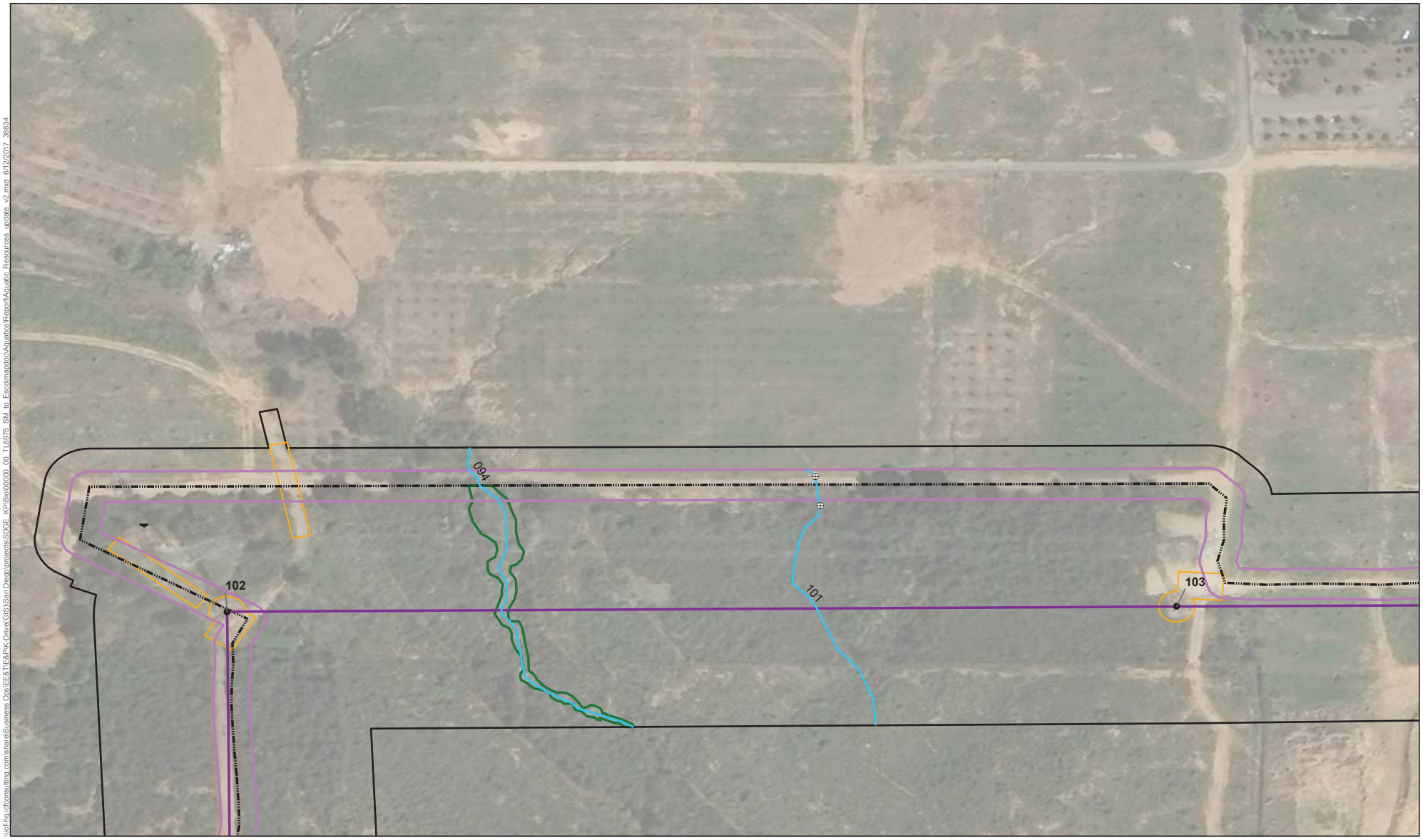
Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream
- Wetland/Riparian

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-49
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Culverts

Jurisdictional Waters (USACE/RWQCB/CDFW)

Ephemeral stream

Wetland/Riparian

Temporary Impacts

Access Roads

Project Components

Poles

Access Roads-40ft Buffer

Survey Area

Transmission Line

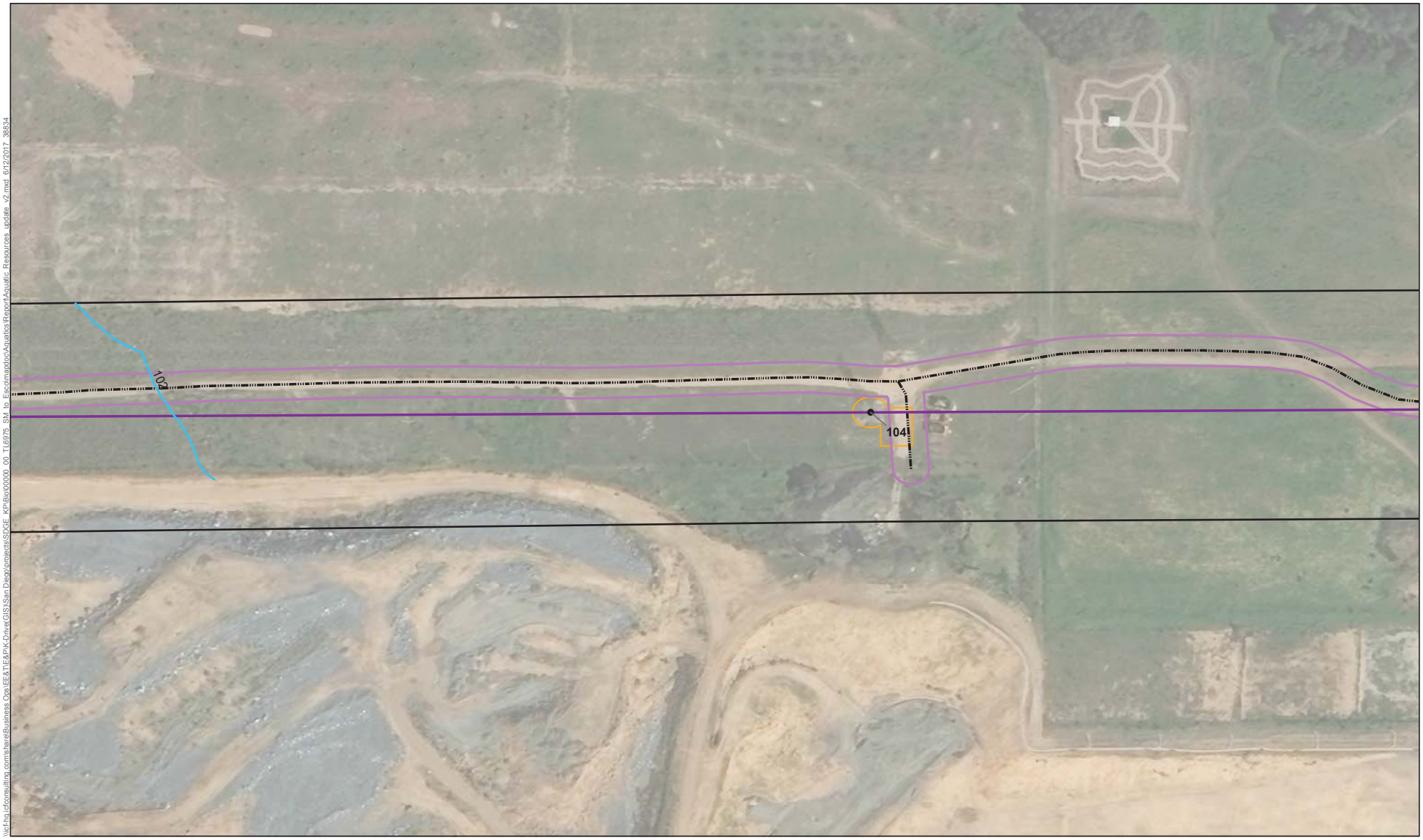
N

0 65 130

Feet

Figure 6b-50
Jurisdictional Delineation Maps
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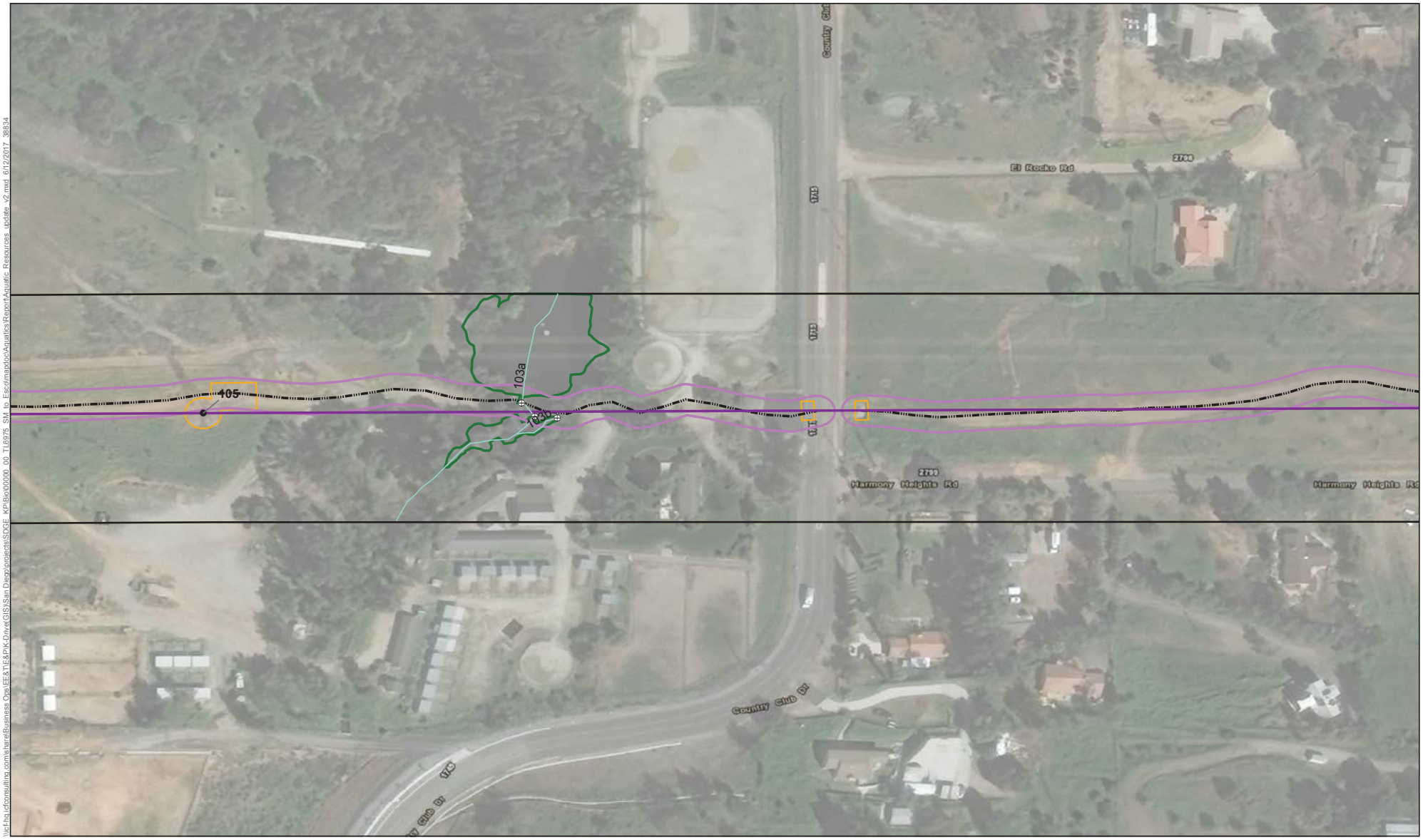
Jurisdictional Waters (USACE/RWQCB/CDFW)
- Ephemeral stream

Project Components
- Survey Area
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-51
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project


405
103a
103b
El Rocko Rd
2788
Harmony Heights Rd
2789
Country Club Dr
1103
1104
1105
1106
1107
1108
1109
1110
1111
1112
1113
1114
1115
1116
1117
1118
1119
1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1130
1131
1132
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1139
1140
1141
1142



Project Components

- Survey Area
- Temporary Impacts
- Access Roads
- Access Roads-40ft Buffer

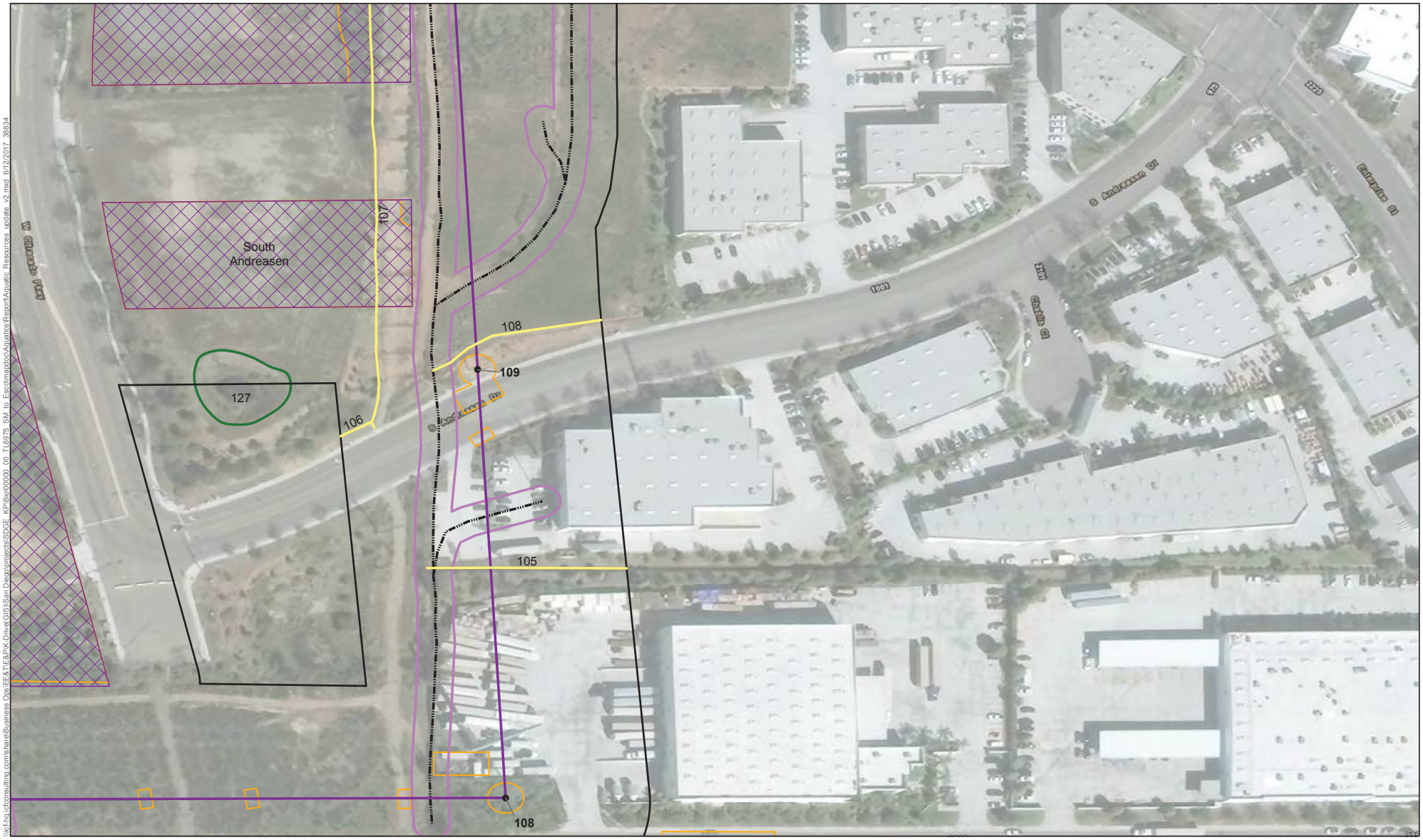
N

0 65 130

Feet

Figure 6b-54
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)
- Wetland/Riparian

Project Components
- Survey Area
- Staging Yard
- Temporary Impacts
- Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

Figure 6b-55
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Project Components
Temporary Impacts
Survey Area
Staging Yard

N

0 65 130
Feet

Figure 6b-56
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

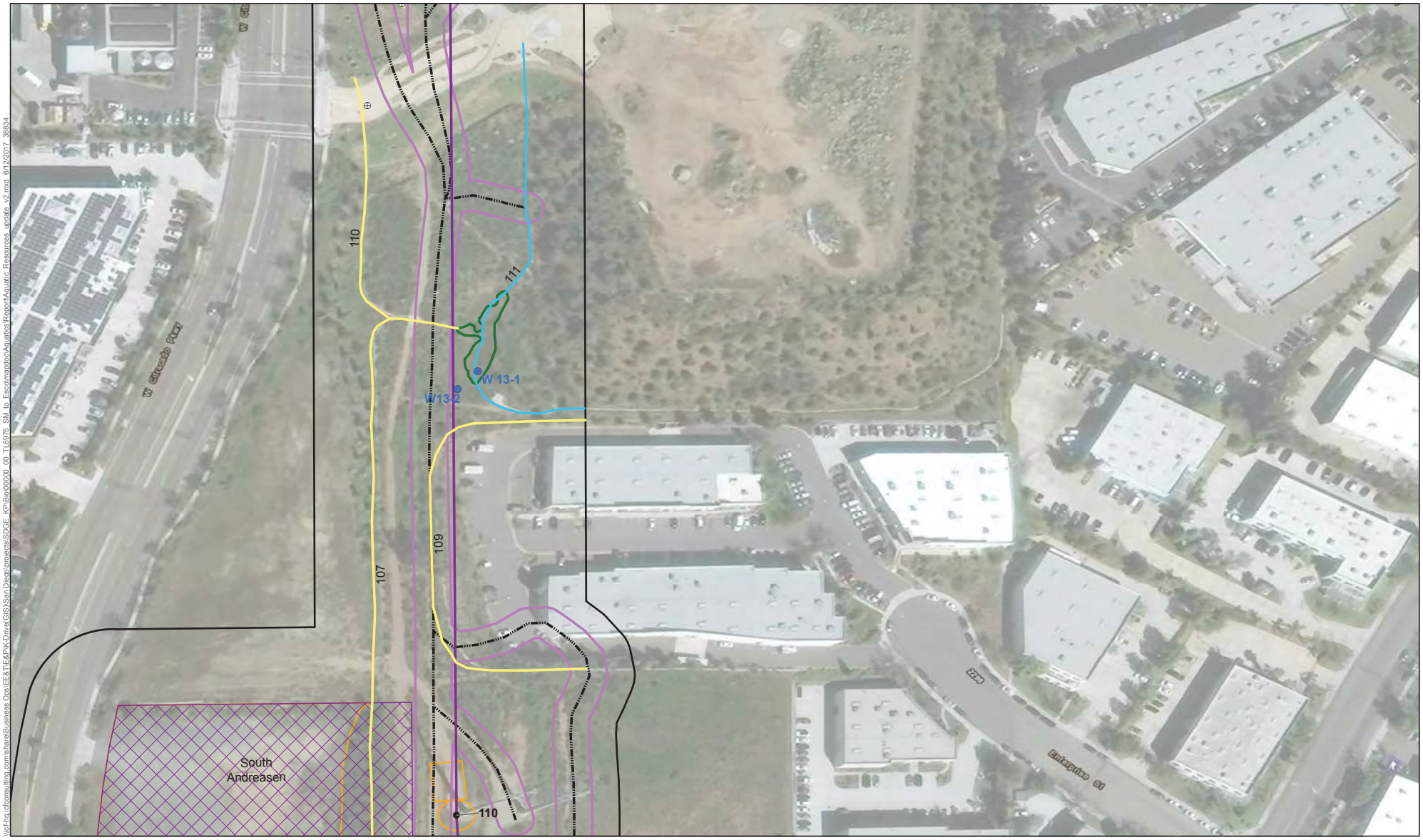
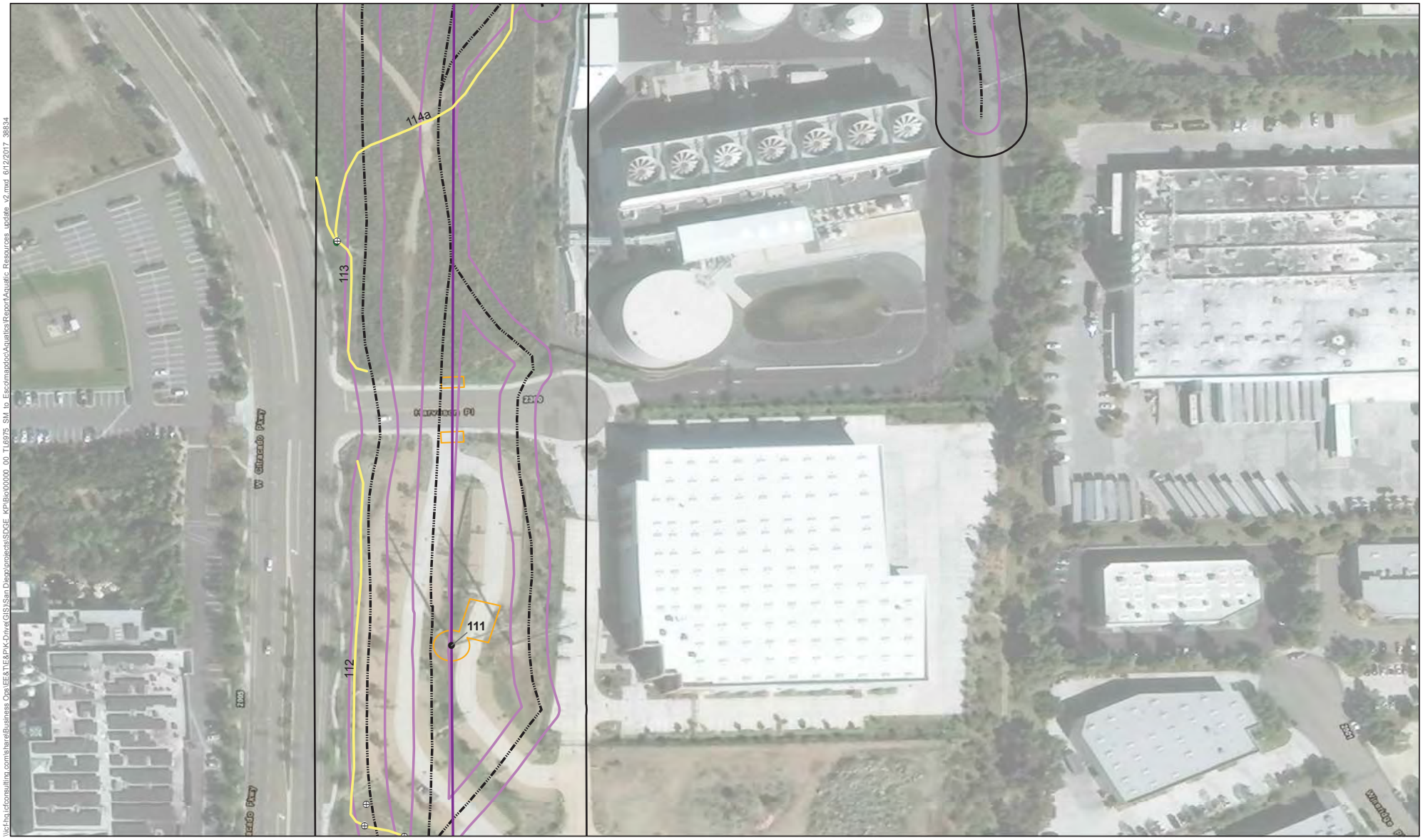


Figure 6b-57
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Culverts

Non-Jurisdictional Features

Concrete V-Ditch (BMP)

Wetland/Riparian

Project Components

Survey Area

Temporary Impacts

Poles

Transmission Line

Access Roads

Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-58
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

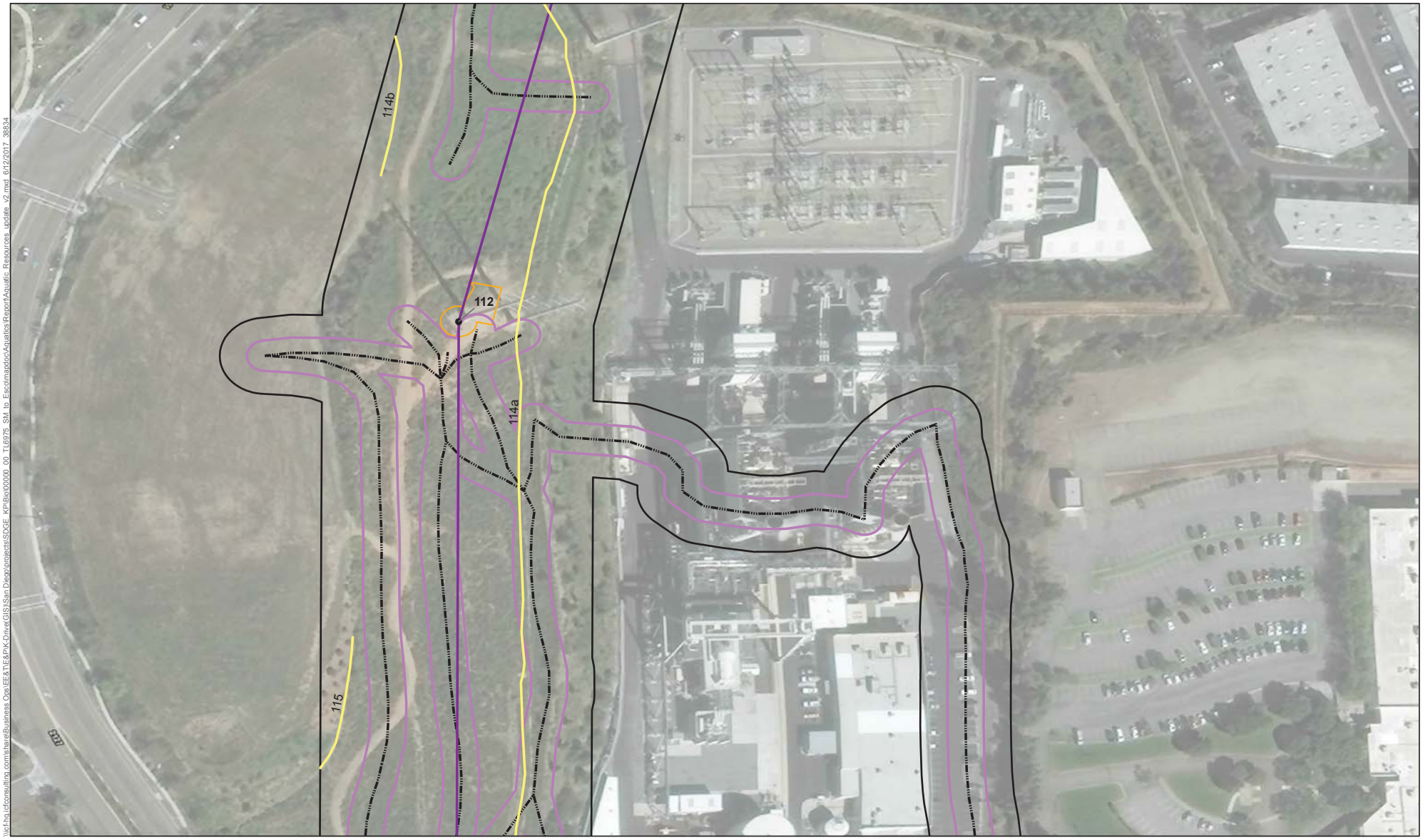
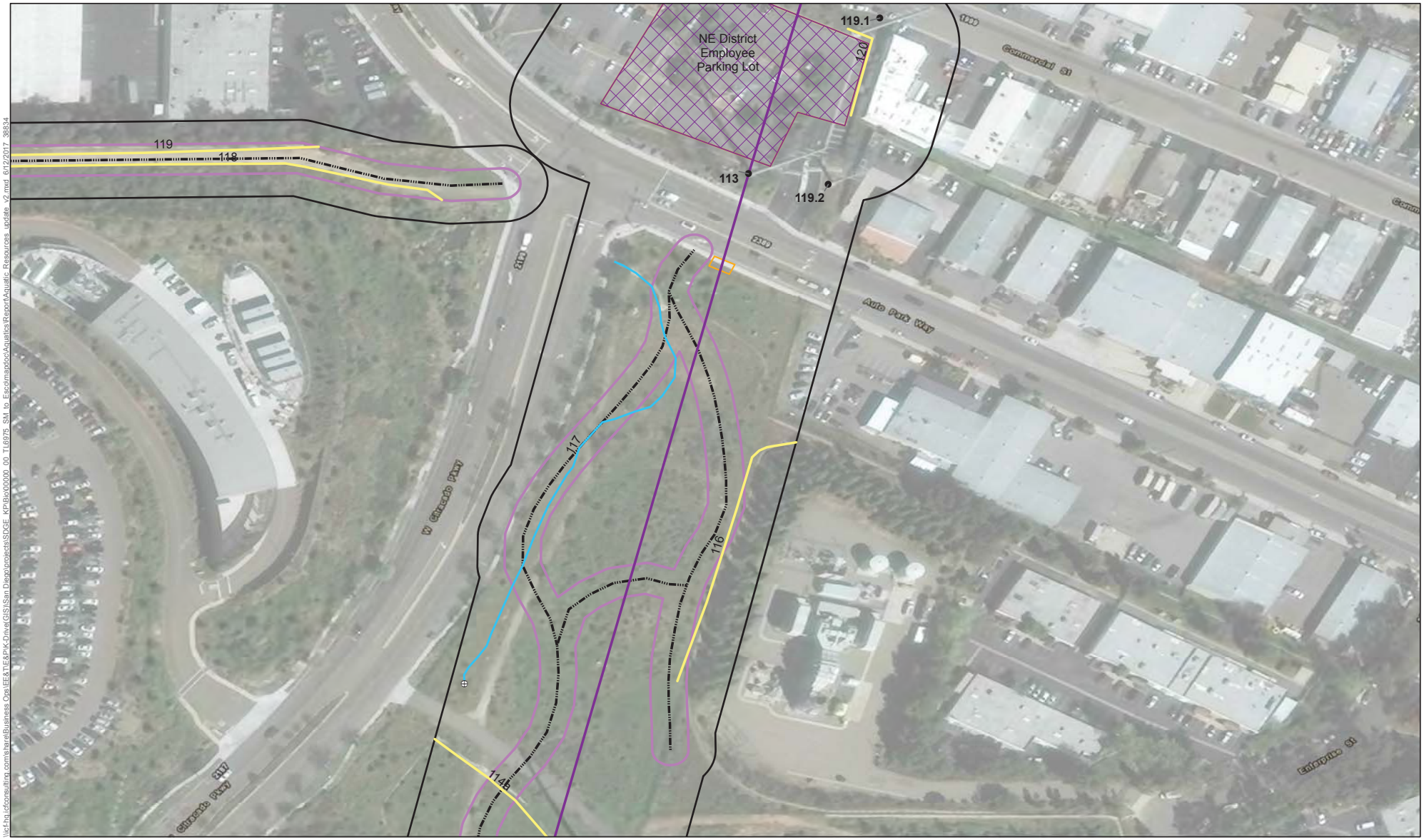


Figure 6b-59
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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ICF

- Culverts
- **Non-Jurisdictional Features**
  - Concrete V-Ditch (BMP)
- **Jurisdictional Waters (USACE/RWQCB/CDFW)**
  - Ephemeral stream
- **Project Components**
  - Survey Area
  - Staging Yard
  - Temporary Impacts
  - Poles
- Transmission Line
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-60
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Non-Jurisdictional Features
- Concrete V-Ditch (BMP)

Project Components
- Survey Area
- Access Roads
- Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-61
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Project Components
- Survey Area
- Staging Yard

Project Components
- Permanent Impacts
- Temporary Impacts

- Poles
- Transmission Line

N

0 65 130
Feet

Figure 6b-62
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Figure 6b-63
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Access Roads

Access Roads-40ft Buffer

N

0 65 130

Feet

Figure 6b-64
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Access Roads
Access Roads-40ft Buffer

N

0 65 130
Feet

Figure 6b-65
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Montiel
& Rock
Springs
Rock Springs Rd
Montiel Rd
Escondido Fwy
Bandy Dr
Gamble Dr
Dooley Rd
Calle Dr
Via
Via
Via



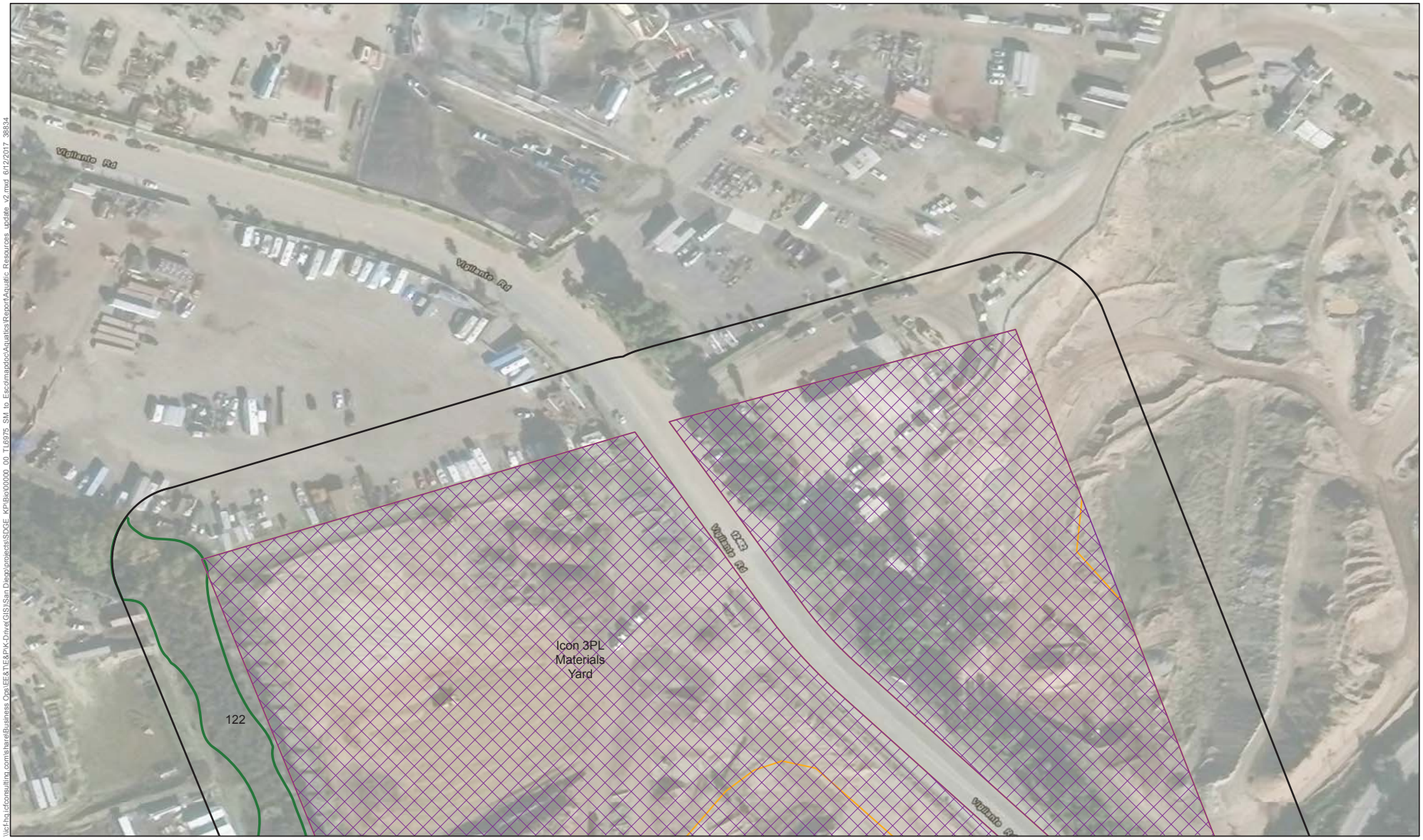
Project Components
Temporary Impacts
Survey Area
Staging Yard

N

0 65 130
Feet

Figure 6b-67
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Wetland/Riparian
Staging Yard
Project Components
Temporary Impacts
Survey Area

N

0 65 130
Feet

Figure 6b-68
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Wetland/Riparian
Staging Yard
Project Components
Temporary Impacts
Survey Area

N

0 65 130
Feet

Figure 6b-69
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



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Project Components
Temporary Impacts
Survey Area
Staging Yard

N

0 65 130
Feet

Figure 6b-70
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project



Project Components
- Temporary Impacts
- Survey Area
- Staging Yard

N

0 65 130
Feet

Figure 6b-72
Jurisdictional Delineation Maps
TL 6975 Escondido to San Marcos New 69kV Project

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Appendix B
Site Photographs, June 2017



Photo 1. Aquatic Feature 001a, an ephemeral stream, facing north. Located approximately 50 feet southeast of Location 6.



Photo 2. Aquatic Feature 002, a perennial stream, facing north. Located approximately 15 feet southeast of Location 7.



Photo 3. Aquatic Feature 003, an ephemeral stream, facing west. Located approximately 130 feet southeast of Location 27.



Photo 4. Aquatic Feature 007a, an intermittent stream, facing northeast. Located approximately 160 feet east of Location 30.



Photo 5. Aquatic Feature 008, swale, facing northeast. Located approximately 70 feet east of Location 30.



Photo 6. Aquatic Feature 010a, San Marcos Creek, facing east. Located approximately 78 feet north of Location 32.



Photo 6. Aquatic Feature 011, concrete v-ditch (non-jurisdictional BMP), facing south. Runs along the access road.



Photo 8. Aquatic Feature 010c, a perennial stream, facing north. Located approximately 42 feet north of Location 35.



Photo 9. Aquatic Feature 016a, a concrete v-ditch (non-jurisdictional BMP) facing northeast. Located approximately 105 feet northeast of access road.



Photo 10. Aquatic Feature 018, an intermittent stream, facing north.



Photo 11. Aquatic Feature 019, a concrete v-ditch (non-jurisdictional BMP), facing east.



Photo 12. Aquatic Feature 020, a perennial stream, facing south. Located approximately 33 feet south of Location 12.



Photo 13. Aquatic Feature 004b, a perennial stream, facing southwest. Located approximately 215 feet north of access road.



Photo 14. Aquatic Feature 023c, a concrete v-ditch (non-jurisdictional BMP), facing south. Runs along the access road.



Photo 15. Aquatic Feature 025b, a concrete v-ditch (non-jurisdictional BMP), facing northwest. Runs along the access road.



Photo 16. Aquatic Feature 026, a concrete v-ditch (non-jurisdictional BMP), facing north. Runs along the access road.



Photo 17. Aquatic Feature 030, a concrete v-ditch (non-jurisdictional BMP), facing southwest.



Photo 18. Aquatic Feature 032, an ephemeral stream, facing east.



Photo 19. Aquatic Feature 035a/b, an ephemeral stream, facing east.



Photo 20. Aquatic Feature 036a, a concrete v-ditch (non-jurisdictional BMP), facing north.



Photo 21. Aquatic Feature 037, an erosional feature, facing south. Aquatic feature bisects access road.



Photo 22. Aquatic Feature 041, a swale, facing south.



Photo 23. Aquatic Feature 042, an ephemeral stream, facing east. Located approximately 160 feet southeast of access road.



Photo 24. Aquatic Feature 043, a concrete v-ditch (non-jurisdictional BMP), facing south.



Photo 25. Aquatic Feature 045, an ephemeral stream, facing west. Aquatic feature bisects access road.

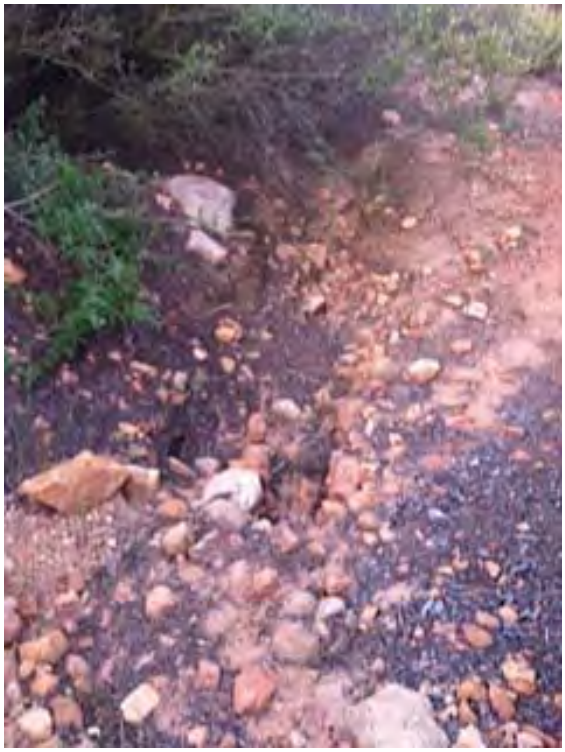


Photo 26. Aquatic Feature 048, an erosional feature, facing west. Aquatic feature bisects access road.



Photo 27. Aquatic Feature 049, a perennial stream, facing southeast. Aquatic feature crosses access road.



Photo 28. Aquatic Feature 053, a swale, facing southwest. Located approximately 170 feet northwest of Location 71.1.



Photo 28. Aquatic Feature 055, a swale, facing southwest. Located approximately 98 feet northwest of Location 72.



Photo 29. Aquatic Feature 056, an ephemeral stream, facing west. Located approximately 25 feet south of Location 72.



Photo 30. Aquatic Feature 059, concrete v-ditch (non-jurisdictional BMP), facing northwest. Located approximately 300 feet northwest of access road.



Photo 31. Aquatic Feature 060, an ephemeral stream, facing south. Aquatic feature bisects access road.



Photo 32. Aquatic Feature 064, a swale, facing east. Runs along access road.



Photo 33. Aquatic Feature 066, a perennial stream, facing northeast. Aquatic feature bisects access road.



Photo 36. Aquatic Feature 070, a perennial stream, facing south. Located approximately 610 feet west of Location 87.



Photo 37. Aquatic Feature 071, an ephemeral stream, facing south. Aquatic resource bisects access road.



Photo 38. Aquatic Feature 072, an ephemeral stream, facing east. Located approximately 5 feet south of access road.



Photo 39. Aquatic Feature 073, an ephemeral stream, facing east. Aquatic resource bisects access road.



Photo 40. Aquatic Feature 074, an ephemeral stream, facing north. Aquatic resource bisects the access road.



Photo 41. Aquatic Feature 075, an ephemeral stream, facing northeast. Aquatic resource bisects access road.



Photo 42. Aquatic Feature 076, an ephemeral stream, facing northeast. Aquatic resource bisects access road.



Photo 43. Aquatic Feature 077, an erosional rill, facing west. Aquatic resource begins at access road.



Photo 44. Aquatic Feature 078, an ephemeral stream, facing northwest. Aquatic resource bisects access road.



Photo 45. Aquatic Feature 079, an ephemeral stream, facing north. Aquatic resource bisects access road.

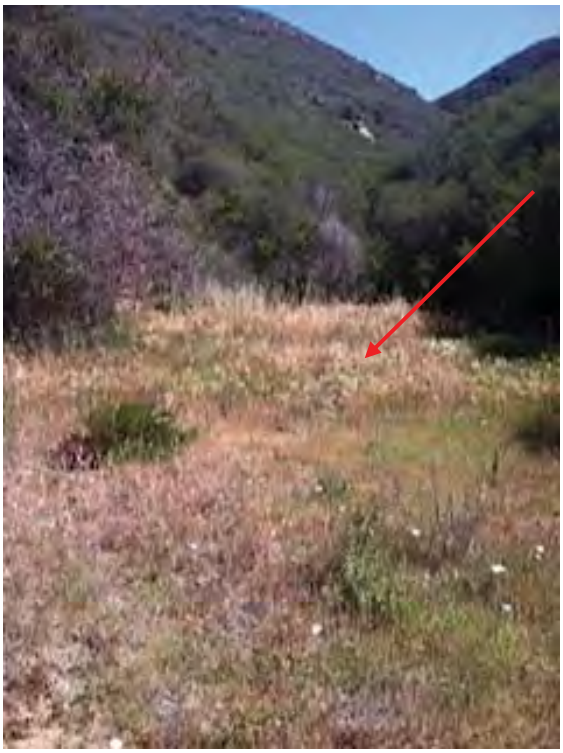


Photo 46. Aquatic Feature 080, an ephemeral stream, facing north. Aquatic resource bisects access road.



Photo 47. Aquatic Feature 081, an ephemeral stream, facing northeast. Aquatic resource bisects access road.



Photo 48. Aquatic Feature 082, an ephemeral stream, facing west. Aquatic resource bisects access road.



Photo 49. Aquatic Feature 083, an ephemeral stream, facing west. Aquatic resource bisects access road.



Photo 50. Aquatic Feature 084, an ephemeral stream, facing north. Runs along access road.



Photo 51. Aquatic Feature 085a, a swale, facing south.



Photo 52. Aquatic Feature 086, an ephemeral stream, facing north. Aquatic resource bisects access road.



Photo 53. Aquatic Feature 087, an erosional feature, facing east. Aquatic resources begins along the south side of the access road.



Photo 53. Aquatic Feature 088a, an ephemeral stream, facing east. Aquatic resource begins along the north side of the access road and bisects lower access road.



Photo 54. Aquatic Feature 089a -089d, ephemeral streams, facing southwest. Distances vary from access road and work areas. Refer to Table 1.



Photo 55. Aquatic Feature 090, an ephemeral stream, facing north. Aquatic resource bisects access road.



Photo 56. Aquatic Feature 091, an ephemeral stream, facing north. Aquatic resource bisects access road.



Photo 57. Aquatic Feature 092, an ephemeral stream, facing southeast. Aquatic resource bisects access road.



Photo 58. Aquatic Feature 093, an ephemeral stream, facing west. Aquatic resource bisects access road.



Photo 59. Aquatic Feature 094, an ephemeral stream, facing west. Aquatic resource starts south of access road.



Photo 60. Aquatic Feature 095, an ephemeral stream, facing south. Portions of the aquatic resource occur within the road buffer.



Photo 61. Aquatic Feature 096, an ephemeral stream, facing north. Located approximately 985 feet west of Location 90.



Photo 62. Aquatic Feature 097, an ephemeral stream, facing north. Aquatic resource bisects access road.



Photo 63. Aquatic Feature 098, an ephemeral stream, facing south. Aquatic resource bisects access road.



Photo 64. Aquatic Feature 099, an ephemeral stream, facing south. Aquatic resource bisects access road.



Photo 65. Aquatic Feature 100, an ephemeral stream, facing south. Located approximately 525 feet west of Location 92.



Photo 66. Aquatic Feature 101, an ephemeral stream, facing south. Aquatic resource bisects access road.



Photo 67. Aquatic Feature 102, an ephemeral stream, facing north. Aquatic resource bisects access road.



Photo 68. Aquatic Feature 103a, open water, facing north. Aquatic resource bisects access road.



Photo 69. Aquatic Feature 103b, a perennial stream, facing south. Aquatic resource bisects access road.



Photo 70. Aquatic Feature 104a, an ephemeral stream, facing north. Located approximately 95 feet west of Location 107.



Photo 71. Aquatic Feature 104a, facing north. Located approximately 95 feet west of Location 107.



Photo 72. Aquatic Feature 104b, a perennial stream, facing south. Located approximately 95 feet west of Location 107.



Photo 73. Aquatic Feature 104b, a perennial stream, facing east. Located approximately 95 feet west of Location 107.



Photo 74. Aquatic Feature 106, a concrete v-ditch (non-jurisdictional BMP), facing west. Located approximately 45 feet west of access road.



Photo 75. Aquatic Feature 109, a concrete v-ditch (non-jurisdictional BMP), facing northeast. Runs along access road.



Photo 76. Aquatic Feature 126, a detention basin at proposed staging yard which contains wetland vegetation and hydrology. Conditions in this basin are similar to the other basins/wetlands within the proposed staging yards (Feature 123, 124, 126, 127, and 128).

Appendix C
Wetland Determination Forms

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W1-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S16 T12S R3W

Landform (hillslope, terrace, etc.): Drainage | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.131131 | Long: -117.202504 | Datum: NAD 1963

Soil Map Unit Name: Placentia sandy loam and Las Flores loamy fine sand | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Washingtonia robusta*	15	Yes	FACW
2.			
3.			
4.			
Total Cover:	15 %		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Typha domingensis*	60	Yes	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	60 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	60	x 1 =	60
FACW species	15	x 2 =	30
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	75 (A)		90 (B)

Prevalence Index = B/A = 1.20

Hydrophytic Vegetation Indicators:

- [x] Dominance Test is >50%
- [x] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area is dominated with OBL vegetation, therefore the area collects enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W1-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: No soil sample pit was dug because there was surface water present, thus soil was assumed hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☒ Surface Water (A1)
- ☒ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ◉ No ○	Depth (inches):	1 foot
Water Table Present?	Yes ◉ No ○	Depth (inches):	surface
Saturation Present? (includes capillary fringe)	Yes ◉ No ○	Depth (inches):	surface

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Primary wetland hydrology indicators were observed within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido City/County: San Diego County Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) State: CA Sampling Point: W1-2

Investigator(s): L.Cervantes and B.Bowen Section, Township, Range: S16 T12S R3W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 0

Subregion (LRR): C - Mediterranean California Lat: 33.131141 Long: -117.202471 Datum: NAD 1963

Soil Map Unit Name: Placentia sandy loam NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Carpobrotus edulis*	60	Yes	Not Listed
2. *Hirschfeldia incana*	10	No	Not Listed
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	70 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	70	x 5 =	350
Column Totals:	70 (A)		350 (B)

Prevalence Index = B/A = 5.00

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: The sample is dominated with upland vegetation therefore the sample area does not collect enough water to support hydrophytic vegetation.

SOIL

Sampling Point: W1-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: Fill/Rocks

Depth (inches): Surface

Hydric Soil Present? Yes ○ No ◉

Remarks: No soil sample pit was dug because it was too difficult to dig into the soil. Soil was assumed to be non-hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: W1-2 is approximately 5 feet higher in eleavtion from W1-1. No wetland hydrology indicators were observed within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W2-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S16 T12S R3W

Landform (hillslope, terrace, etc.): Floodplain/draiange | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.130375 | Long: -117.200511 | Datum: NAD 1963

Soil Map Unit Name: Grangeville fine sandy loam | NWI classification: Freshwater Forested/Shrub

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix lasiolepis*	40	Yes	FACW
2.			
3.			
4.			
Total Cover:	40 %		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Scirpus californicus*	40	Yes	OBL
2. *Raphanus raphanistrum*	5	No	Not Listed
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	45 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	40	x 1 =	40
FACW species	40	x 2 =	80
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	5	x 5 =	25
Column Totals:	85 (A)		145 (B)

Prevalence Index = B/A = 1.71

Hydrophytic Vegetation Indicators:

- [x] Dominance Test is >50%
- [x] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: Sample area is dominated with OBL and FACW vegetation, therefor the sample area collects enough water to maintain hydrophtic vegetation.

SOIL

Sampling Point: W2-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☒ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: No soil sample pit was dug. Surface water was approximately 1 foot deep and a hydrogen sulfide odor was present at the surface.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☒ Surface Water (A1)
- ☒ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☒ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ◉	No ○	Depth (inches):	1 foot
Water Table Present?	Yes ◉	No ○	Depth (inches):	Surface
Saturation Present? (includes capillary fringe)	Yes ◉	No ○	Depth (inches):	Surface

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Primary and more than 2 secondary wetland hydrology indicators were observed at sample point W2-1.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W2-2

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S16 T12S R3W

Landform (hillslope, terrace, etc.): terrace | Local relief (concave, convex, none): convex | Slope (%): 5

Subregion (LRR): C - Mediterranean California | Lat: 33.130384 | Long: -117.200415 | Datum: NAD 1963

Soil Map Unit Name: Grangeville fine sandy loam | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks: Sample point W2-2 terrace was located approximately 5 feet from W2-1.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Raphanus raphanistrum*	15	Yes	Not Listed
2. *Bromus diandrus*	15	Yes	Not Listed
3. *Cynara cardunculus*	10	Yes	Not Listed
4. *Cirsium vulgare*	5	No	FACU
5. *Foeniculum vulgare*	5	No	Not Listed
6.			
7.			
8.			
Total Cover:	50 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	5	x 4 =	20
UPL species	45	x 5 =	225
Column Totals:	50 (A)		245 (B)

Prevalence Index = B/A = 4.90

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: Sample point W2-2 is dominated with upland vegetation therefore does not collect enough water to support hydrophytic vegetation.

SOIL

Sampling Point: W2-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16	10 YR 3/6	100					Loamy Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: No hydric soil indicators were observed in soil sample pit W2-2.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary wetland hydrology indicators were observed at sample point W2-2.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W3-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S17 T12S R3W

Landform (hillslope, terrace, etc.): Drainage | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.131670 | Long: -117.220563 | Datum: NAD 1963

Soil Map Unit Name: Gaviota fine sandy loam | NWI classification: Freshwater Forested/Shrub

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks: Sample point taken within drainage.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Tamarix ramosissima*	10	Yes	FAC
2. *Baccharis sarothroides*	5	Yes	FACU
3.			
4.			
5.			
Total Cover:	15 %		
Herb Stratum			
1. *Typha domingensis*	60	Yes	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	60 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 40 % | % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	60	x 1 =	60
FACW species		x 2 =	0
FAC species	10	x 3 =	30
FACU species	5	x 4 =	20
UPL species		x 5 =	0
Column Totals:	75 (A)		110 (B)

Prevalence Index = B/A = 1.47

Hydrophytic Vegetation Indicators:

- [x] Dominance Test is >50%
- [x] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: Sample area 3-1 is dominated with OBL and FAC vegetation therefore the sample area collects enough water to support hydrophytic vegetation.

SOIL

Sampling Point: W3-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
N/A								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☒ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: riprap rocks

Depth (inches): at surface

Hydric Soil Present? Yes ◉ No ○

Remarks: No soil sample pit was dug for W3-1. Riprap and surface water was present at the sample point location. In addition, hydrophytic vegetation and hydrology met therefore soil assumed to be hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☒ Surface Water (A1)
- ☒ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☒ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ◉ No ○ Depth (inches): 6

Water Table Present? Yes ◉ No ○ Depth (inches): surface

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): surface

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Primary and secondary wetland hydrology indicators were observed within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W3-2

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S17 T12S R3W

Landform (hillslope, terrace, etc.): hillslope | Local relief (concave, convex, none): convex | Slope (%): 20

Subregion (LRR): C - Mediterranean California | Lat: 33.131711° | Long: -117.220508° | Datum: NAD 1963

Soil Map Unit Name: Gaviota fine sandy loam | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks: Sample point taken at top of hillslope outside of drainage.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Rhus integrifolia*	25	Yes	Not Listed
2. *Acacia sp.*	25	Yes	Not Listed
3.			
4.			
5.			
Total Cover:	50 %		
Herb Stratum			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum 100% % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	50	x 5 =	250
Column Totals:	50 (A)		250 (B)

Prevalence Index = B/A = 5.00

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: No OBL, FACW or FAC vegetation was observed within sample area W3-2.

SOIL

Sampling Point: W3-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16	10 YR 5/4	98	7.5 YR 6/8	2	C	M	Loamy Clay	Soil was moist from irrigation

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: Redox was observed, however hillslopes are irrigated along roadside resulting in excessive amount of runoff entering this area. Soils did not meet for any of the hydric soil indicators.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary nor secondary wetland hydrology indicators were observed with the W3-2 sample are. The sample area was located approximately 10 feet higher in elevation from the drainage.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W4-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S17 T12S R3W

Landform (hillslope, terrace, etc.): Drainage | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.131205 | Long: -117.220405 | Datum: NAD 1963

Soil Map Unit Name: Visalia sandy loam | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix gooddingii*	25	Yes	FACW
2.			
3.			
4.			
Total Cover:	25 %		
Sapling/Shrub Stratum			
1. *Pluchea sericea*	10	Yes	FACW
2.			
3.			
4.			
5.			
Total Cover:	10 %		
Herb Stratum			
1. *Typha domingensis*	40	Yes	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	40 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	40	x 1 =	40
FACW species	35	x 2 =	70
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	75 (A)		110 (B)

Prevalence Index = B/A = 1.47

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: OBL and FACW vegetation dominate the sample are W4-1, therefore the sample area collects enough water to support hydrophytic vegetation.

SOIL

Sampling Point: W4-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10 YR 5/6	100					sand	
4-16	10 YR 4/3	90	7.5 YR 5/8	10	C	M	loamy/Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☒ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: No hydric soil indicators were observed in the soil sample. Saturation was at 6 inches thus soil support anaerobic conditions and due to the presence of hydrophytic vegetation and hydrology; soils are assumed to be a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☒ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ◉ No ○ Depth (inches): 6

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Primary and more than two secondary wetland hydrology indicators were observed within sample area W4-1.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido City/County: San Diego County Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) State: CA Sampling Point: W4-2

Investigator(s): L.Cervantes and B.Bowen Section, Township, Range: S17 T12S R3W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 10

Subregion (LRR): C - Mediterranean California Lat: 33.131162 Long: -117.220373 Datum: NAD 1963

Soil Map Unit Name: Visalia sandy loam NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks: Sample point W4-2 was located approximately 5 feet higher in elevation than W4-1.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Rhus integrifolia*	25	Yes	Not Listed
2. *Helianthus californicus*	25	Yes	OBL
3.			
4.			
5.			
Total Cover:	50 %		
Herb Stratum			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	25	x 1 =	25
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	25	x 5 =	125
Column Totals:	50 (A)		150 (B)

Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:

- [ ] Dominance Test is >50%
- [x] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: The sample area supports both OBL and upland vegetation, both types are equally dominant within the sample area and do not meet for dominance. Irrigation is present along the hillslopes which attribute to the dominance of Helianthus within the area.

SOIL

Sampling Point: W4-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-8	10 YR 5/4	100					Loamy Clay	Soil was rocky and compact

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: Rock/Cobble and Compact Soils

Depth (inches): 8 inches

Hydric Soil Present? Yes ○ No ◉

Remarks: No hydric soil indicators were observed in the soil sample.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ○ No ◉ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches): _____

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary nor secondary wetland indicators were observed within the sample area located along the hill slope approximately 5 feet above elevation from W4-1.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W5-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S17 T12S R3W

Landform (hillslope, terrace, etc.): Drainage | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.131788 | Long: -117.219533 | Datum: NAD 1963

Soil Map Unit Name: Gaviota fine sandy loam | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix gooddingii*	25	Yes	FACW
2. *Washingtonia robusta*	15	Yes	FACW
3.			
4.			
Total Cover:	40 %		
Sapling/Shrub Stratum			
1. *Tamarix ramosissima*	5	Yes	FAC
2.			
3.			
4.			
5.			
Total Cover:	5 %		
Herb Stratum			
1. *Bromus diandrus*	5	Yes	Not Listed
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	5 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species	40	x 2 =	80
FAC species	5	x 3 =	15
FACU species		x 4 =	0
UPL species	5	x 5 =	25
Column Totals:	50 (A)		120 (B)

Prevalence Index = B/A = 2.40

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area supports FACW, FAC and upland vegetation, but is dominated with FACW vegetation. Therefore the sample area collects enough water to support wetland hydrology but is also dry enough to support upland vegetation.

SOIL

Sampling Point: W5-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-14	10 YR 4/3	95	5 YR 5/6	5	C	M	Loamy Clay	Soil was moist, Hydrogen Sulfide odor present

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☒ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: Hydrogen sulfide odor could be smelled from the sample pit, which is an indicator for hydric soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☒ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☒ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):
Water Table Present?	Yes ◉	No ○	Depth (inches): 10
Saturation Present? (includes capillary fringe)	Yes ◉	No ○	Depth (inches): 4

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Primary and more than two secondary wetland indicators were observed within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W5-2

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S17 T12S R3W

Landform (hillslope, terrace, etc.): Hillslope | Local relief (concave, convex, none): convex | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.131897 | Long: -117.219587 | Datum: NAD 1963

Soil Map Unit Name: Gaviota fine sandy loam | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Helianthus californicus*	40	Yes	OBL
2. *Tamarix ramosissima*	5	No	FAC
3. *Baccharis pilularis*	5	No	Not Listed
4. *Rhus integrifolia*	5	No	Not Listed
5.			
Total Cover:	55 %		
Herb Stratum			
1. *Cortaderia selloana*	5	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	5 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	40	x 1 =	40
FACW species		x 2 =	0
FAC species	5	x 3 =	15
FACU species	5	x 4 =	20
UPL species	10	x 5 =	50
Column Totals:	60 (A)		125 (B)

Prevalence Index = B/A = 2.08

Hydrophytic Vegetation Indicators:

- [ ] Dominance Test is >50%
- [x] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area W5-2 supports OBL, FAC and upland vegetation. Therefore the sample area receives enough water to support OBL and FAC vegetation but is also dry enough to support upland vegetation.

SOIL

Sampling Point: W5-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-18	10 YR 3/3	100					Loamy Clay	Soil was moist, may be from irrigation or urban runoff.

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: No hydric soil indicators were observed within the soil sample.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary nor secondary wetland hydrology indicators were observed with the sample area. Sample area W5-2 was approximately 6 feet higher in elevation than W5-1.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W6-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S18 T12S R3W

Landform (hillslope, terrace, etc.): Drainage | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.128293 | Long: -117.229240 | Datum: NAD 1963

Soil Map Unit Name: Gaviota fine sandy loam | NWI classification: Freshwater Forested/Shrub

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix lasiolepis*	35	Yes	FACW
2.			
3.			
4.			
Total Cover:	35 %		
Sapling/Shrub Stratum			
1. *Bacchaaris salicifolia*	10	Yes	FAC
2. *Tamarix ramosissima*	3	Yes	FAC
3.			
4.			
5.			
Total Cover:	13 %		
Herb Stratum			
1. *Typha domingensis*	60	Yes	OBL
2. *Juncus acutus*	5	No	FACW
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	65 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	60	x 1 =	60
FACW species	40	x 2 =	80
FAC species	13	x 3 =	39
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	113 (A)		179 (B)

Prevalence Index = B/A = 1.58

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area was dominated with OBL,FACW and FAC vegetation, therefore the sample area receives enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W6-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: No soil pit was sampled due to the surface water present. The surface water present was about 4 inches in depth. Riprap was also present in the sample area. Due to the surface water present soil was assumed to be anaerobic and qualify as a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☒ Surface Water (A1)
- ☒ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☒ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ◉ No ○	Depth (inches):	4
Water Table Present?	Yes ◉ No ○	Depth (inches):	surface
Saturation Present? (includes capillary fringe)	Yes ◉ No ○	Depth (inches):	surface

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Three primary and two secondary wetland hydrology indicators were observed within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W6-2

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S18 T12S R3W

Landform (hillslope, terrace, etc.): Hillslope | Local relief (concave, convex, none): convex | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.128175 | Long: -117.229152 | Datum: NAD 1963

Soil Map Unit Name: Las Posas stony fine sandy loam | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Salvia mellifera*	15	Yes	Not Listed
2. *Eriogonum fasciculatum*	10	Yes	Not Listed
3.			
4.			
5.			
Total Cover:	25 %		
Herb Stratum			
1. *Bromus madretensis*	15	Yes	UPL
2. *Bromus diandrus*	10	No	Not Listed
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	25 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	50	x 5 =	250
Column Totals:	50 (A)		250 (B)

Prevalence Index = B/A = 5.00

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: The sample area was dominated upland vegetation therefore the sample area does not collect enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W6-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-8	10 YR 4/4	100					Loamy Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: Cobbles/Fill

Depth (inches): 8

Hydric Soil Present? Yes ○ No ◉

Remarks: Cobble/fill was present at a depth of 8 inches and thus made it difficult to dig past this depth. No hydric soil indicators were observed within the soil sample.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary wetland hydrology indicators were observed in sample area W6-2. W6-2 sample point was approximately 5 feet higher in elevation than W6-1.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido City/County: San Diego County Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) State: CA Sampling Point: W7-1

Investigator(s): L.Cervantes and B.Bowen Section, Township, Range: S18 T12S R3W

Landform (hillslope, terrace, etc.): Drainage Local relief (concave, convex, none): none Slope (%): 0

Subregion (LRR): C - Mediterranean California Lat: 33.127350° Long: -117.228166° Datum: NAD 1963

Soil Map Unit Name: Las Posas stony fine sandy loam NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix lasiolepis*	65	Yes	FACW
2.			
3.			
4.			
Total Cover:	65 %		
Sapling/Shrub Stratum			
1. *Baccharis salicifolia*	30	Yes	FAC
2.			
3.			
4.			
5.			
Total Cover:	30 %		
Herb Stratum			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species	65	x 2 =	130
FAC species	30	x 3 =	90
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	95 (A)		220 (B)

Prevalence Index = B/A = 2.32

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area was dominated with FACW and FAC vegetation therefore the sample area collects enough water to maintain hydrophytic vegetation. Sample area did not include the understory.

SOIL

Sampling Point: W7-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: No sample soil pit was taken because the sample area was full of rip rap within the drainage and banks. The sample area is dominated with wetland vegetation and has wetland hydrology indicators present within the sample area, thus we can assume that the soil would be anaerobic and meet the requirements for a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☒ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Two secondary wetland hydrology indicators were observed within the sample area W7-1.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W7-2

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S18 T12S R3W

Landform (hillslope, terrace, etc.): Terrace | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.127435 | Long: -117.228110 | Datum: NAD 1963

Soil Map Unit Name: Las Posas stony fine sandy loam | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Baccharis pilularus*	15	Yes	Not Listed
2.			
3.			
4.			
5.			
Total Cover:	15 %		
Herb Stratum			
1. *Bromus madretensis*	60	Yes	UPL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	60 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	75	x 5 =	375
Column Totals:	75 (A)		375 (B)

Prevalence Index = B/A = 5.00

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: The sample area was dominated with upland vegetation therefore the sample area does not collect enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W7-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-6	2.5 YR 6/2	100					Loamy Clay	Soil was dry

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: Soils were too compact and could not dig past a depth of 6 inches. No hydric soil indicators were observed within the soil sample.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary nor secondary indicators were observed within the sample area W7-2. Sample point W7-2 was approximately 4 feet higher in elevation than W7-1.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Deigo Gas and Electric (SDG&E) | State: CA | Sampling Point: W8-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S29 T12S R3W

Landform (hillslope, terrace, etc.): Drainage | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.102307° | Long: -117.214936° | Datum: NAD 1963

Soil Map Unit Name: Gravel pits | NWI classification: Freshwater Forested/Shrub

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix gooddingii*	30	Yes	FACW
2. *Salix lasiolepis*	30	Yes	FACW
3.			
4.			
Total Cover:	60 %		
Sapling/Shrub Stratum			
1. *Baccharis salicifolia*	40	Yes	FAC
2.			
3.			
4.			
5.			
Total Cover:	40 %		
Herb Stratum			
1. *Bromus diandrus*	60	Yes	Not Listed
2. *Eriogonum fasciculatum*	5	No	Not Listed
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	65 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species	60	x 2 =	120
FAC species	40	x 3 =	120
FACU species		x 4 =	0
UPL species	65	x 5 =	325
Column Totals:	165 (A)		565 (B)

Prevalence Index = B/A = 3.42

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [ ] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area was dominated with FACW and FAC vegetation therefore the sample area collects enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W8-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: Could not gain access to sample soil point. The sample area has wetland vegetation and has primary wetland hydrology indicators therefore soil was assumed hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☒ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☒ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☒ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Algae (Other) was also present within the sample area. Primary wetland hydrology indicators were observed within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido City/County: San Diego County Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) State: CA Sampling Point: W8-2

Investigator(s): L.Cervantes and B.Bowen Section, Township, Range: S29 T12S R3W

Landform (hillslope, terrace, etc.): Hillside Local relief (concave, convex, none): convex Slope (%): 20

Subregion (LRR): C - Mediterranean California Lat: 33.101900 Long: -117.214962 Datum: NAD 1963

Soil Map Unit Name: Gravel Pits NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (•) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (•) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (•)	
Hydric Soil Present?	Yes ( )	No (•)	**Is the Sampled Area within a Wetland?** Yes ( ) No (•)
Wetland Hydrology Present?	Yes ( )	No (•)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Artemisia californica*	15	Yes	Not Listed
2. *Salvia mellifera*	10	Yes	Not Listed
3.			
4.			
5.			
Total Cover:	25 %		
Herb Stratum			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	25	x 5 =	125
Column Totals:	25 (A)		125 (B)

Prevalence Index = B/A = 5.00

Hydrophytic Vegetation Indicators:

- [•] Dominance Test is >50%
- [•] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (•)

Remarks: The sample area was dominated with upland vegetation therefore the sample area does not collects enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W8-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: Soil sample area was too rocky and compact to dig a soil sample pit. No wetland vegetation or wetland hydrology indicators were observed within the sample area thus the soil was assumed non-hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary nor secondary wetland hydrology indicators were observed within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W9-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S33 T12S R3W

Landform (hillslope, terrace, etc.): Drainage | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.094534 | Long: -117.206936 | Datum: NAD 1963

Soil Map Unit Name: San Miguel rocky silt loam | NWI classification: Freshwater Forested/Shrub

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix lasiolepis*	50	Yes	FACW
2.			
3.			
4.			
Total Cover:	50 %		
Sapling/Shrub Stratum			
1. *Baccharis salicifolia*	15	Yes	FAC
2.			
3.			
4.			
5.			
Total Cover:	15 %		
Herb Stratum			
1. *Juncus acutus*	5	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	5 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species	55	x 2 =	110
FAC species	15	x 3 =	45
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	70 (A)		155 (B)

Prevalence Index = B/A = 2.21

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area was dominated with FACW and FAC vegetation therefore the sample area collects enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W9-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: Rip-rap

Depth (inches): surface

Hydric Soil Present? Yes ◉ No ○

Remarks: A restrictive layer of rip-rap was present at the sample point, thus no pit was sampled. The sample area had wetland vegetation and two secondary wetland hydrology indicators present within the sample area thus it is assumed that the soil would be hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☒ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Two secondary wetland hydrology indicators were observed within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido City/County: San Diego County Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) State: CA Sampling Point: W9-2

Investigator(s): L.Cervantes and B.Bowen Section, Township, Range: S33 T12S R3W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 5

Subregion (LRR): C - Mediterranean California Lat: 33.094506 Long: -117.206980 Datum: NAD 1963

Soil Map Unit Name: San Miguel rocky silt loam NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks: Sample point W9-2 was approximately 3 feet higher in elevation than sample point W9-1.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Salvia mellifera*	40	Yes	Not Listed
2. *Artemisia californica*	5	No	Not Listed
3.			
4.			
5.			
Total Cover:	45 %		
Herb Stratum			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	45	x 5 =	225
Column Totals:	45 (A)		225 (B)

Prevalence Index = B/A = 5.00

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: The sample area was dominated with upland vegetation therefore the sample area does not collects enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W9-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: Compacted soils/fill was present within the soil sample area therefore could not dig a soil pit. No wetland vegetation or wetland hydrology indicators were observed within the sample area thus the soil was assumed to be non-hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary nor secondary wetland hydrology indicators were observed within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W10-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S28 T12S R3W

Landform (hillslope, terrace, etc.): Floodplain | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.095078 | Long: -117.202346 | Datum: NAD 1963

Soil Map Unit Name: San Miguel rocky silt loam | NWI classification: Freshwater Forested/Shrub

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Eucalyptus sp.*	20	Yes	
2.			
3.			
4.			
Total Cover:	20 %		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Eleocharis parishii*	15	Yes	FACW
2. *Juncus mexicanus*	10	Yes	FACW
3. *Ambrosia psilostachya*	5	No	FACU
4.			
5.			
6.			
7.			
8.			
Total Cover:	30 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species	25	x 2 =	50
FAC species		x 3 =	0
FACU species	5	x 4 =	20
UPL species		x 5 =	0
Column Totals:	30 (A)		70 (B)

Prevalence Index = B/A = 2.33

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area was dominated with FACW vegetation therefore the sample area collects enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W10-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-18	5 YR 4/2	85	5 YR 5/8	15	C	M	Loamy Clay	Soils were wet

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: Redox concentrations were observed with the soil sample and met the requirements for a depleted matrix.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☒ Sediment Deposits (B2) (**Riverine**)
- ☒ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):
Water Table Present?	Yes ◉	No ○	Depth (inches): 16
Saturation Present? (includes capillary fringe)	Yes ◉	No ○	Depth (inches): 8

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Primary and two secondary wetland hydrology indicators were observed within the sample area. Sample point W10-1 was taken approximately 2 feet from the main channel.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido City/County: San Diego County Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) State: CA Sampling Point: W10-2

Investigator(s): L.Cervantes and B.Bowen Section, Township, Range: S28 T12S R3W

Landform (hillslope, terrace, etc.): Upland-Terrace Local relief (concave, convex, none): none Slope (%): 0

Subregion (LRR): C - Mediterranean California Lat: 33.095133° Long: -117.202375° Datum: NAD 1963

Soil Map Unit Name: San Miguel rocky silt loam NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Sycamore rameoso*	20	Yes	Not Listed
2. *Populus fremontii*	10	Yes	Not Listed
3.			
4.			
Total Cover:	30 %		
Sapling/Shrub Stratum			
1. *malosma laurina*	30		Not Listed
2.			
3.			
4.			
5.			
Total Cover:	30 %		
Herb Stratum			
1. *Bromus sp.*	10	Yes	Not Listed
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	10 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum % % Cover of Biotic Crust %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	70	x 5 =	350
Column Totals:	70 (A)		350 (B)

Prevalence Index = B/A = 5.00

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: The sample area was dominated with upland vegetation therefore the sample area does not collect enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W10-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-14	7.5 YR 4/4	100					Loamy Clay	Compact soils

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: No hydric soil indicators were observed within the soil sample.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary wetland hydrology indicators were observed within the sample area. Sample point W10-2 was taken approximately 10 feet from the W10-1 and is approximately 4 feet higher in elevation.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W11-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S27 T12S R3W

Landform (hillslope, terrace, etc.): Drainage | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.095159 | Long: -117.179935 | Datum: NAD 1963

Soil Map Unit Name: Huerhuero loam | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix lasiolepis*	50	Yes	FACW
2.			
3.			
4.			
Total Cover:	50 %		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Typha domingensis*	90	Yes	OBL
2. *Bromus diandrus*	15	No	Not Listed
3. *Bromus madritensis*	10	No	UPL
4.			
5.			
6.			
7.			
8.			
Total Cover:	115 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	90	x 1 =	90
FACW species	50	x 2 =	100
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	25	x 5 =	125
Column Totals:	165 (A)		315 (B)

Prevalence Index = B/A = 1.91

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area was dominated with OBL and FACW vegetation therefore the sample area collects enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W11-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: Surface water was present, thus hydric soil was assumed and no sample pit was dug.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☒ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☒ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ◉ No ○ Depth (inches): 4

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Primary and two secondary wetland hydrology indicators were observed within the sample area. A large waterfall that flows from the riser was located within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido City/County: San Diego County Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) State: CA Sampling Point: W11-2

Investigator(s): L.Cervantes and B.Bowen Section, Township, Range: S27 T12S R3W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 20

Subregion (LRR): C - Mediterranean California Lat: 33.095183 Long: -117.179991 Datum: NAD 1963

Soil Map Unit Name: Huerhuero loam NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Salvia mellifera*	30	Yes	Not Listed
2. *Artemisia californica*	15	Yes	Not Listed
3. *Rhus integrifolia*	5	No	Not Listed
4.			
5.			
Total Cover:	50 %		
Herb Stratum			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species	50	x 5 =	250
Column Totals:	50 (A)		250 (B)

Prevalence Index = B/A = 5.00

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: The sample area was dominated with upland vegetation therefore the sample area does not collect enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W11-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: No soil sample pit was dug due to riprap present in the uplands. No wetland vegetation nor wetland hydrology indicators were observed within the sample area thus the soil was assumed to be non-hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary or secondary wetland hydrology indicators were observed within the sample area.

US Army Corps of Engineers

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W12-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S19 T12S R2W

Landform (hillslope, terrace, etc.): channel | Local relief (concave, convex, none): none | Slope (%): 0

Subregion (LRR): C - Mediterranean California | Lat: 33.109699° | Long: -117.122402° | Datum: NAD 1963

Soil Map Unit Name: Fallbrook rocky sandy loam | NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes (●)	No ( )	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix lasiolepis*	5	Yes	FACW
2.			
3.			
4.			
Total Cover:	5 %		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Scirpus californicus*	35	Yes	OBL
2. *Typha domingensis*	25	Yes	OBL
3. *eleocharis parishii*	10	No	FACW
4.			
5.			
6.			
7.			
8.			
Total Cover:	70 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	60	x 1 =	60
FACW species	15	x 2 =	30
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	75 (A)		90 (B)

Prevalence Index = B/A = 1.20

Hydrophytic Vegetation Indicators:

- [x] Dominance Test is >50%
- [x] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area was dominated with OBL and FACW vegetation therefore the sample area collects enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W12-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-18	7.5 YR 4/2	65	5YR 5/8	35	C	M	Loamy Clay	Soils were moist

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks: Redox concentrations were present within the soil sample and meet the requirements for a depleted matrix hydric soil indicator.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☒ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☒ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☒ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Primary and two secondary wetland hydrology indicators were observed within the sample area.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido City/County: San Diego County Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) State: CA Sampling Point: W12-2

Investigator(s): L.Cervantes and B.Bowen Section, Township, Range: S19 T12S R2W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 20

Subregion (LRR): C - Mediterranean California Lat: 33.109647 Long: -117.122392 Datum: NAD 1963

Soil Map Unit Name: Fallbrook rocky sandy loam NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ( )	No (●)	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks: Sample W12-2 upland point was taken about 5 feet away from W12-1 on the hill slope.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Baccharis sarothroides*	10	Yes	FACU
2.			
3.			
4.			
5.			
Total Cover:	10 %		
Herb Stratum			
1. *Bromus madritensis*	35	Yes	UPL
2. *Bromus diandrus*	25	Yes	Not Listed
3. *Erodium cicutarium*	10	No	Not Listed
4.			
5.			
6.			
7.			
8.			
Total Cover:	70 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species	10	x 4 =	40
UPL species	70	x 5 =	350
Column Totals:	80 (A)		390 (B)

Prevalence Index = B/A = 4.88

Hydrophytic Vegetation Indicators:

- (●) Dominance Test is >50%
- (●) Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ( ) No (●)

Remarks: The sample area was dominated with upland vegetation therefore the sample area does not collect enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W12-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5 YR 5/6	100					Loamy Clay	Soils were drier than W12-1

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ○ No ◉

Remarks: No redox concentrations were present within the soil sample and no hydric soil indicators were observed within the soil sample.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ○ No ◉ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches): _____

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary nor secondary wetland hydrology indicators were observed within the sample area. Sample W12-2 was located on a hill slope and was approximately 6 feet higher in elevation than W12-1.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W13-1

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S20 T12S R2W

Landform (hillslope, terrace, etc.): Basin | Local relief (concave, convex, none): concave | Slope (%): 5

Subregion (LRR): C - Mediterranean California | Lat: 33.114131 | Long: -117.118585 | Datum: NAD 1963

Soil Map Unit Name: Fallbrook sandy loam | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes (●) No ( )
Wetland Hydrology Present?	Yes (●)	No ( )	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1.			
2.			
3.			
4.			
5.			
Total Cover:	%		
Herb Stratum			
1. *Cyperus eragrostis*	20	Yes	FACW
2. *Scirpus californicus*	10	Yes	OBL
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	30 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	10	x 1 =	10
FACW species	20	x 2 =	40
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	30 (A)		50 (B)

Prevalence Index = B/A = 1.67

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [X] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area was dominated with OBL and FACW vegetation therefore the sample area collects enough water to maintain hydrophytic vegetation.

SOIL

Sampling Point: W13-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-20	7.5 YR 5/6	100					Sandy	Soils were moist

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: No hydric soil indicators were observed within the soil sample. Wetland vegetation and one wetland hyrdology indicator were observed within the sample area thus the sample area receives enough water to sustain a wetland habitat.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☒ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: One primary wetland hydrology indicators was observed within the sample area. Sample W13-1 was taken within the basin and has a concave shape.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDG&E TL 6975 San Marcos to Escondido | City/County: San Diego County | Sampling Date: 4/24/2017

Applicant/Owner: San Diego Gas and Electric (SDG&E) | State: CA | Sampling Point: W13-2

Investigator(s): L.Cervantes and B.Bowen | Section, Township, Range: S20 T12S R2W

Landform (hillslope, terrace, etc.): Hill slope | Local relief (concave, convex, none): convex | Slope (%): 15

Subregion (LRR): C - Mediterranean California | Lat: 33.114067 | Long: -117.118658 | Datum: NAD 1963

Soil Map Unit Name: Fallbrook sandy loam | NWI classification: Not Listed

Are climatic / hydrologic conditions on the site typical for this time of year? Yes (●) No ( ) (If no, explain in Remarks.)

Are Vegetation [ ] Soil [ ] or Hydrology [ ] significantly disturbed? Are "Normal Circumstances" present? Yes (●) No ( )

Are Vegetation [ ] Soil [ ] or Hydrology [ ] naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes (●)	No ( )	
Hydric Soil Present?	Yes ( )	No (●)	**Is the Sampled Area within a Wetland?** Yes ( ) No (●)
Wetland Hydrology Present?	Yes ( )	No (●)	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:	%		
Sapling/Shrub Stratum			
1. *Isocoma menziesii*	5	Yes	FAC
2. *Salix laevigata*	2	Yes	FACW
3.			
4.			
5.			
Total Cover:	7 %		
Herb Stratum			
1. *Erodium cicutarium*	40	Yes	Not Listed
2. *Bromus diandrus*	10	Yes	FACW
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	50 %		
Woody Vine Stratum			
1.			
2.			
Total Cover:	%		

% Bare Ground in Herb Stratum ____ % | % Cover of Biotic Crust ____ %

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species	12	x 2 =	24
FAC species	5	x 3 =	15
FACU species		x 4 =	0
UPL species	40	x 5 =	200
Column Totals:	57 (A)		239 (B)

Prevalence Index = B/A = 4.19

Hydrophytic Vegetation Indicators:

- [X] Dominance Test is >50%
- [ ] Prevalence Index is ≤3.0[1]
- [ ] Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- [ ] Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes (●) No ( )

Remarks: The sample area was dominated with FACW, FAC and upland vegetation therefore the sample area collects enough water to support hydrophytic vegetation. Herbaceous upland vegetation covers most of the sample area on the hill slope.

SOIL

Sampling Point: W13-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5 YR 5/8	100					Sandy	Soils were drier than W13-1

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (**LRR C**)
- ☐ 1 cm Muck (A9) (**LRR D**)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks: No hydric soil indicators were observed within the soil sample.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Thin Muck Surface (C7)
- ☐ Recent Iron Reduction in Plowed Soils (C6)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No primary nor secondary wetland hydrology indicators was observed within the sample area. Sample W13-2 was taken on the slope of the basin.

Appendix D

Summary Jurisdictional Delineation Table

Table D-1 – Aquatic Features Evaluated within the PSA

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
001a	Ephemeral stream	Sheet 1	Y	Y	1	1	This feature is a concrete-lined channel along the upstream portion and natural along the downstream portion. This feature flows within a maintained grass area of a golf course and supported standing water throughout. The feature starts at a culvert outlet and the downstream portion supports wetlands. Three 36-inch culverts channelize flows under San Pablo Drive. OHWM indicators observed include standing water, water staining, and shelving (within the natural portions).
001b	Concrete V-Ditch (BMP)	Sheet 1	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
002	Perennial stream	Sheet 1	Y	Y	86	90	Feature is San Marcos Creek. This feature contains marsh wetland and riparian habitat that occur outside of the OHWM limits. Flows are channelized through culverts under Discovery Street.
003	Ephemeral stream	Sheet 5	Y	Y	2	2	This feature is a concrete-lined channel that conveys flows from surrounding neighborhood hillsides. Topography of this area and landscape indicates a manipulated natural system; therefore, this feature is potentially jurisdictional.
004a	Intermittent stream	Sheet 10	Y	Y	92	102	This feature is San Marcos Creek and flows from three 36-inch culvert outlets through White Sands Drive into a perennial stream. Riparian vegetation and wetlands are present.
004b	Perennial stream	Sheet 10	Y	Y	27	31	This feature is a continuation of San Marcos Creek and flows from a culvert under White Sands Drive into the main flow feature. Water is present. Wetlands occur within the OHWM limit.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
004c	Perennial stream	Sheet 10	Y	Y	25	29	This feature is San Marcos Creek that traverses the PSA. Wetlands and riparian vegetation are present.
005	Ephemeral stream	Sheet 5	Y	Y	2	2	This feature is a constructed concrete-lined channel located within an apartment complex. The feature follows natural topography and drainage patterns and flows outside of the PSA through a culvert at Viewpoint Drive. OHWM indicators present include water staining
006	Ephemeral stream	Sheet 4	Y	Y	1	2	This feature is a concrete-lined channel that is channelized by a culvert under an asphalt access road. OHWM indicators present include bed and bank (constructed) and water staining; the feature was determined to be a potential natural feature. This feature is tributary to San Marcos Creek.
007a	Intermittent stream	Sheet 4	Y	Y	6.5	9	This feature is tributary to San Marcos Creek. Multiple widths were averaged (USACE: 5.5feet, 3 feet, and 11 feet; CDFW: 6.5 feet, 6 feet, and 14.5 feet). The downstream portion supports wetlands within the OHWM limits.
007b	Ephemeral stream	Sheet 4	Y	Y	2	4	This feature is an earthen channel that flows into 007a. OHWM indicators present include presence of bed and bank, sediment sorting, and algae crust.
007c	Ephemeral stream	Sheet 4	Y	Y	2	2	This feature is an earthen channel that flows into 007a. OHWM indicators present include presence of bed and bank and sediment sorting.
008	Swale	Sheet 4	N	N	N/a	N/a	This feature is a 3-foot-wide, non-jurisdictional swale that initiates from an outfall structure. No OHWM indicators are present.
009	Concrete V-Ditch (BMP)	Sheet 19	N	N	N/a	N/a	This feature is a concrete-lined v-ditch that was constructed to serve as a roadside BMP. This is a non-jurisdictional feature.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
010a	Perennial stream	Sheet 4	Y	Y	9	61	This feature is San Marcos Creek. The CDFW width includes the extent of riparian vegetation. Portions of wetland occur within riparian vegetation. The feature flows into a 36-inch culvert that runs under Acacia Drive.
010b	Perennial stream	Sheet 6	Y	Y	18	34	The feature is San Marcos Creek and supports wetland and riparian vegetation.
010c	Perennial stream	Sheet 6	Y	Y	20	30	The feature is San Marcos Creek and consists of all wetland and riparian vegetation.
011	Concrete V-Ditch (BMP)	Sheet 7	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. It was constructed to serve as a roadside BMP. This is a non-jurisdictional feature.
012	Ephemeral stream	Sheet 7	Y	Y	3	12	This feature is an earthen drainage. It flows under an access road through a 24-inch culvert and flows into a 36-inch culvert. OHWM indicators present include presence of bed and bank and sediment sorting.
013	Concrete V-Ditch (BMP)	Sheet 6	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. It was constructed to serve as a roadside BMP. This is a non-jurisdictional feature.
014	Concrete V-Ditch (BMP)	Sheet 8	N	N	N/a	N/a	This feature is a non-jurisdictional constructed v-ditch BMP.
015	Concrete V-Ditch (BMP)	Sheet 8/9	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. The v-ditch is partially filled with dead foliage and sediment. This is a non-jurisdictional feature.
016a	Concrete V-Ditch (BMP)	Sheet 11	N	N	N/a	N/a	This feature is a non-jurisdictional constructed v-ditch BMP.
016b	Ephemeral stream	Sheet 11	Y	Y	1	1	This feature is the earthen portion of a drainage. 016a flows directly into this feature. OHWM indicators present include presence of bed and bank and sediment sorting.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
017	Concrete V-Ditch (BMP)	Sheet 11	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. The v-ditch is partially filled with dead foliage and sediment. This is a non-jurisdictional feature.
018	Intermittent stream	Sheet 10	Y	Y	28	38	This feature is an earthen drainage that supports wetlands and riparian vegetation. An average width was determined for USACE (29 feet and 27 feet). The culvert outlet associated with this feature contains a large root mat partially clogging the outlet. A vegetated sandbar is present.
019	Concrete V-Ditch (BMP)	Sheet 5	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This feature was constructed in uplands to serve as a hillside. This is a non-jurisdictional feature.
020	Perennial stream	Sheet 2	Y	Y	12	20	This channel supports wetland and riparian vegetation. Access was restricted; therefore, widths were estimated. Feature is a tributary to San Marcos Creek.
021	Concrete V-Ditch (BMP)	Sheet 2	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. The feature runs along the back side of a softball field. This is a non-jurisdictional feature.
022a	Concrete V-Ditch (BMP)	Sheet 11	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. The feature converts from a BMP to an earthen drainage further downstream. This is a non-jurisdictional feature.
022b	Ephemeral stream	Sheet 11	Y	Y	2	2	This portion of the feature is an earthen drainage. OHWM indicators present include presence of bed and bank and sediment sorting.
023a	Concrete V-Ditch (BMP)	Sheet 11	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This feature follows the trail and ends at the culvert inlet. This feature was constructed to serve as a roadside BMP. This is a non-jurisdictional feature.
023b	Concrete V-Ditch (BMP)	Sheet 10	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This feature is a concrete-lined feature that follows the trail and ends at the culvert inlet. This feature was constructed

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
							to serve as a roadside BMP. This is a non-jurisdictional feature.
023c	Concrete V-Ditch (BMP)	Sheet 10	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This feature is a concrete-lined feature that follows the trail and ends at the culvert inlet. This feature was constructed to serve as a roadside BMP. This is a non-jurisdictional feature.
023d	Concrete V-Ditch (BMP)	Sheet 10	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This feature is a concrete-lined feature that follows the trail and ends at the culvert inlet. This feature was constructed to serve as a roadside BMP. This is a non-jurisdictional feature.
024a	Concrete V-Ditch (BMP)	Sheet 11	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. It is a part of a complex system established as a hillside BMP. This is a non-jurisdictional feature.
024b	Concrete V-Ditch (BMP)	Sheet 11	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. It is a part of a complex system established as a hillside BMP. This is a non-jurisdictional feature.
025a	Concrete V-Ditch (BMP)	Sheet 11	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. It is a part of a complex system established as a hillside BMP. This is a non-jurisdictional feature.
025b	Concrete V-Ditch (BMP)	Sheet 11	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. It is a part of a complex system established as a hillside BMP. This is a non-jurisdictional feature.
025c	Concrete V-Ditch (BMP)	Sheet 11	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. It is a part of a complex system established as a hillside BMP. This is a non-jurisdictional feature.
025d	Concrete V-Ditch (BMP)	Sheet 11	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. It is a part of a complex system established as a hillside BMP. This is a non-jurisdictional feature.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
026	Concrete V-Ditch (BMP)	Sheet 12	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. One feature follows the fence line on the west side of the PSA. This is a non-jurisdictional feature.
027	Concrete V-Ditch (BMP)	Sheet 12	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This feature was created to serve as a hillside BMP. This is a non-jurisdictional feature.
027a	Concrete V-Ditch (BMP)	Sheet 12	N	N	N/a	N/a	This feature is a constructed v-ditch BMP to serve as a hillside BMP. This is a non-jurisdictional feature.
028	Concrete V-Ditch (BMP)	Sheet 12	N	N	N/a	N/a	This feature is a constructed v-ditch BMP to serve as a hillside BMP. This is a non-jurisdictional feature.
029	Concrete V-Ditch (BMP)	Sheet 12	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
030	Concrete V-Ditch (BMP)	Sheet 12	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
031	Concrete V-Ditch (BMP)	Sheet 12	N	N	N/a	N/a	This feature is a constructed v-ditch BMP that runs along the roadside and flows into culvert.
032	Ephemeral stream	Sheet 13	Y	Y	3	3	This feature is a concrete-lined channel with rip-rap banks and flows into a culvert outlet.
033	Concrete V-Ditch (BMP)	Sheet 13	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
034	Concrete V-Ditch (BMP)	Sheet 13	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
035a	Ephemeral stream	Sheet 13	Y	Y	1	2	This feature consists of three concrete-lined channels that flow into a basin that supports riparian vegetation. The feature follows natural drainage patterns and appear to have been natural earthen bottom drainages prior to being converted to concrete. OHWM indicators

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
							observed include water staining. The basin is shown as a streamline.
035b	Ephemeral stream	Sheet 13	Y	Y	3	5	This feature is an earthen drainage that extends to the limit of the PSA. Riparian vegetation is present upstream. OHWM indicators observed: sediment sorting, destruction of vegetation, and presence of bed and bank.
036a	Concrete V-Ditch (BMP)	Sheet 14	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This feature was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
036b	Swale	Sheet 14	N	N	N/a	N/a	This feature is a rip-rap swale approximately 3 feet wide. No OHWM indicators observed.
037	Erosional Feature	Sheet 16	N	N	N/a	N/a	This feature is an earthen drainage that occurs on the east side of the road. Sheet flow occurs over the entire width of the road and loses definition downslope.
038	Concrete V-Ditch (BMP)	Sheet 16	N	N	N/a	N/a	This feature is a constructed v-ditch BMP that ends in rip-rap and was created to serve as a hillside BMP. This is a non-jurisdictional feature.
039	Concrete V-Ditch (BMP)	Sheet 16	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
040	Concrete V-Ditch (BMP)	Sheet 17	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. The feature was constructed in uplands to serve as a hillside BMP. This is a non-jurisdictional feature.
041	Swale	Sheet 17	N	N	N/a	N/a	This feature is a swale that is approximately 2 feet wide. No OHWM indicators are present.
042	Ephemeral stream	Sheet 16/17	Y	Y	2	4	This feature is an earthen channel. Leaf litter covers most of the feature. OHWM indicators present include the presence of bed and bank. Riparian vegetation is present in the downstream reach of this feature.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
043	Concrete V-Ditch (BMP)	Sheet 17	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. The feature was constructed in uplands to serve as a hillside BMP. This is a non-jurisdictional feature.
044	Concrete V-Ditch (BMP)	Sheet 17	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
045	Ephemeral stream	Sheet 17	Y	Y	4	4	This feature is an earthen drainage. Although the drainage begins as an erosional feature within the road, once flows go off the road, OHWM indicators continue throughout the length of the feature and include: sediment sorting, presence of bed and bank, and destruction of terrestrial vegetation.
046	Concrete V-Ditch (BMP)	Sheet 18	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
047	Concrete V-Ditch (BMP)	Sheet 17/ 18	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
048	Erosional Feature	Sheet 18	N	N	N/a	N/a	Drainage pattern is only associated with the road, and does not follow the natural drainage patterns of the slope. Natural drainage pattern would drain north, however this feature drains southwest.
049	Perennial stream	Sheet 18	Y	Y	Polygon	Polygon	This feature is San Marcos Creek. Polygon depicts extent of riparian and wetlands present. Physical features observed include vegetated sand and gravel bar near rock face and an elevated island in the middle of the channel. Least Bell's Vireo were present within creek. OHWM shown as a streamline.
050	Concrete V-Ditch (BMP)	Sheet 18/19	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
051	Ephemeral stream	Sheet 19	Y	Y	1	3	This feature is a concrete-lined channel that converts to an earthen channel at the southern end of the feature. Feature follows natural drainage pattern present prior to construction of the housing development.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
052	Concrete V-Ditch (BMP)	Sheet 20	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and ends at rip-rap. This feature was constructed in uplands to serve as a hillside BMP. This is a non-jurisdictional feature.
053	Swale	Sheet 20	N	N	N/a	N/a	This feature is a swale: no OHWM or defined bed and bank observed.
054	Concrete V-Ditch (BMP)	Sheet 20/ 21	N	N	N/a	N/a	This feature is a constructed v-ditch BMP that ends at rip-rap. This feature was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
055	Swale	Sheet 21	N	N	N/a	N/a	This feature is a swale: no OHWM or defined bed and bank observed.
056	Ephemeral stream	Sheet 21	Y	Y	1	2	This feature is an earthen drainage that starts in rip-rap and flows downstream before it dissipates completely. OHWM indicators observed include sediment sorting.
057	Concrete V-Ditch (BMP)	Sheet 21	N	N	N/a	N/a	This feature is a constructed v-ditch BMP that follows the sidewalk (mid-slope). This feature was constructed to serve as a roadside BMP. This is a non-jurisdictional feature.
058	Concrete V-Ditch (BMP)	Sheet 21	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
059	Concrete V-Ditch (BMP)	Sheet 21	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
060	Ephemeral Stream	Sheet 21	Y	Y	3.5	10	This feature flows from a 60-inch culvert that proceeds west narrowing in size (5 feet to 1 foot). Riparian vegetation occurs at the first half of the feature. The ground shows evidence of ponding at the end of the feature. Extended streamline through ponded area.
061	Concrete V-Ditch (BMP)	Sheet 22	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and serves as a roadside BMP. This is a non-jurisdictional feature.
062	Concrete V-Ditch (BMP)	Sheet 22	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and serves as a roadside BMP. This is a non-jurisdictional feature.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
063	Concrete V-Ditch (BMP)	Sheet 21	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and serves as a roadside BMP. This is a non-jurisdictional feature.
064	Swale	Sheet 25/26	N	N	N/a	N/a	No OHWM indicators were observed. There is a culvert associated with the swale. This is a non-jurisdictional feature.
065	Concrete V-Ditch (BMP)	Sheet 27	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and serves as a roadside BMP. This is a non-jurisdictional feature.
066	Perennial stream	Sheet 24	Y	Y	10	12	This feature is an unnamed perennial stream that supports wetlands and riparian vegetation. Crayfish are present within the stream. OHWM indicators observed: sediment sorting, destruction of vegetation and cut banks, and water staining present on rocks and vegetation. Tributary to Escondido Creek.
067	Ephemeral Stream	Sheet 30	Y	Y	10	16	This feature is a natural drainage. Non-wetland riparian vegetation is present up and downstream of the road crossing.
068	Concrete V-Ditch (BMP)	Sheet 31	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
069	Concrete V-Ditch (BMP)	Sheet 32	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP.
070	Perennial stream	Sheet 32	Y	Y	Polygon	Polygon	This feature is a natural stream with wetlands and riparian vegetation present. The OHWM width of the steam narrows at the south end of the feature.
071	Ephemeral stream	Sheet 35	Y	Y	4	8	This feature is a natural streamline and crossed the road. OHWM indicators observed include sediment sorting. Flows from upstream and side drain.
072	Ephemeral stream	Sheet 35	Y	Y	2	4	This feature flows into culverts and flows into a larger drainage. Leaf litter, vegetation, and trash where found within drainage.
073	Ephemeral stream	Sheet 35/36	Y	Y	1	1	This feature is a sandy braided system that flows over the road.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
074	Ephemeral stream	Sheet 37	Y	Y	3	3	This feature is earthen up and downstream of road. The portion crossing the road, no culvert is present.
075	Ephemeral stream	Sheet 37	Y	Y	2	2	This feature is earthen and flows beneath the road through a culvert.
076	Ephemeral stream	Sheet 38	Y	Y	2	2	This feature is earthen and flows beneath the road through a culvert.
077	Erosional Feature	Sheet 38	N	N	N/a	N/a	Created from road and flows downslope. This is a non-jurisdictional feature.
078	Ephemeral stream	Sheet 39	Y	Y	2	2	This feature is an earthen drainage that flows through a culvert under the road.
079	Ephemeral stream	Sheet 40	Y	Y	2	2	This feature is an earthen channel that crosses the access road via a culvert.
080	Ephemeral stream	Sheet 40	Y	Y	3	5	This feature is an earthen channel. A culvert is only present downstream of this feature, not a culverted crossing
081	Ephemeral stream	Sheet 41	Y	Y	10	10	This feature is an earthen channel. No culvert is present, feature flows over the access road.
082	Ephemeral stream	Sheet 42	Y	Y	2	5	This feature is an earthen channel that crosses the road through a culvert.
083	Ephemeral stream	Sheet 42	Y	Y	5	5	This feature is an earthen channel. No culverts were present.
084	Ephemeral stream	Sheet 41	Y	Y	4	7	This feature is an earthen channel that flows along the roadside. OHWM indicators present include bed and bank. Flows downhill under vegetation.
085a	Swale	Sheet 43	N	N	N/a	N/a	This feature is a swale that is approximately 10 feet wide and consists of a large grassy area. No OHWM indicators present. This is a non-jurisdictional feature.
085b	Ephemeral stream	Sheet 44	Y	Y	1	3	This feature is an earthen channel which exhibits natural drainage patterns and OHWM indicators like bed and bank.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
085c	Ephemeral stream	Sheet 44	Y	Y	1	3	This feature is an earthen channel that crosses the access road and exhibits natural drainage patterns and OHWM indicators like bed and bank.
085d	Ephemeral stream	Sheet 44	Y	Y	2	4	This feature is an earthen channel that crosses the access road and exhibits natural drainage patterns and OHWM indicators like bed and bank.
086	Ephemeral stream	Sheet 44	Y	Y	2	3	This feature is an earthen channel that crosses the access road. No culvert present.
087	Erosional feature	Sheet 45	N	N	N/a	N/a	Feature associated with road run-off, feature does not follow natural drainage pattern.
088a	Ephemeral stream	Sheet 45	Y	Y	10	12	This feature is an earthen slightly braided system. OHWM indicators observed: sediment sorting and cut bank.
088b	Ephemeral stream	Sheet 47	Y	Y	10	12	This feature is an earthen slightly braided system. OHWM indicators observed: sediment sorting and cut bank. Feature crosses the access road through a culvert and runs parallel to access road. Riparian vegetation (oak woodland) is present.
089a	Ephemeral stream	Sheet 46	Y	Y	5	6	This feature is an earthen channel. OHWM indicators observed: sediment sorting and cut bank.
089b	Ephemeral stream	Sheet 46	Y	Y	1	1	This feature is an earthen channel. OHWM indicators observed: sediment sorting and cut bank.
089c	Ephemeral stream	Sheet 46	Y	Y	2	3	This feature is an earthen channel. OHWM indicators observed: sediment sorting and cut bank.
089d	Ephemeral stream	Sheet 46	Y	Y	2	3	This feature is an earthen channel. OHWM indicators observed: sediment sorting and cut bank.
090	Ephemeral stream	Sheet 47	Y	Y	11	15	This feature is earthen channel that flows through three 36-inch culverts under Bresa De Loma Road and flows parallel to the access road.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
091	Ephemeral stream	Sheets 47/ 48	Y	Y	10	12	This feature was also mapped as an NHD streamline. The channel was clogged with sediment. Three 36-inch culverts convey flows under the access road.
092	Ephemeral stream	Sheets 47/ 48	Y	Y	6.5	7	This feature is an earthen channel that outlets from an 18-inch culvert and flows into a main stream. Average width was taken from multiple measurements.
093	Ephemeral stream	Sheet 49	Y	Y	6	8	This feature is a natural stream with an average width of 6 feet from multiple measurements. OHWM indicators observed: sediment sorting, cut bank, and drift and debris. Crosses access road, no culverts present.
094	Ephemeral Stream	Sheet 49/ 50	Y	Y	12	15	This feature is an earthen drainage associated with a NHD stream line. Wetland and riparian vegetation present. Feature crosses an access road, no culvert present.
095	Ephemeral stream	Sheet 35/ 36	Y	Y	6	10	This feature is an earthen drainage. OHWM indicators observed: presence of bed and bank, drift and debris, and sediment sorting.
096	Ephemeral stream	Sheet 36	Y	Y	5	7	This feature is an earthen drainage. OHWM indicators observed include the presence of bed and bank.
097	Ephemeral stream	Sheet 37	Y	Y	5	7	This feature is an earthen drainage that flows through an 18-inch culvert under the road.
098	Ephemeral stream	Sheet 36	Y	Y	3	5	This feature is an earthen drainage. The OHWM and bed and bank was estimated along the road by taking the average up and downstream measurements. Feature flows across the access road, no culvert present.
099	Ephemeral stream	Sheet 36/39	Y	Y	6	12	This feature is an earthen drainage that flows through a 24-inch culvert through the road.
100	Ephemeral stream	Sheet 38	Y	Y	6	10	This feature is an earthen drainage that receives flows from a 36–inch culvert outside of the PSA.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
101	Ephemeral stream	Sheet 50	Y	Y	1	2	This feature is an earthen feature that flows across the road through a 12-inch culvert.
102	Ephemeral stream	Sheet 51	Y	Y	2	5	This feature is an earthen drainage that is dammed with sand bags and flows over the access road. No culverts present.
103a	Open Water	Sheet 52	Y	Y	Polygon	Polygon	This feature consists of open water and has adjacent riparian vegetation with some wetlands along the road. The access road crosses into the feature.
103b	Perennial stream	Sheet 52	Y	Y	3	22	This is the stream portion of the feature that occurs south of the road. Flows initiate from two separate culvert outlets. Riparian vegetation and wetlands are present. This is an unnamed tributary to Escondido Creek.
104a	Ephemeral stream	Sheet 53	Y	Y	2	5	The portion of the feature is a stream that has been manipulated by the property owner. The flow path has not changed; however, the bank has been constructed.
104b	Perennial stream	Sheet 53	Y	Y	Polygon	Polygon	This portion of the feature is the main detention basin and consists primarily of wetland and riparian vegetation. Water is present within the channel. This feature is an unnamed tributary to Escondido Creek.
105	Concrete V-Ditch (BMP)	Sheet 55	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
106	Concrete V-Ditch (BMP)	Sheet 55	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This feature was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
107	Concrete V-Ditch (BMP)	Sheet 55/ 57	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
108	Concrete V-Ditch (BMP)	Sheet 55	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
109	Concrete V-Ditch (BMP)	Sheet 57	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
110	Concrete V-Ditch (BMP)	Sheet 57	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
111	Ephemeral stream	Sheet 57	Y	Y	2	4	Upstream portion is a concrete-lined channel, it then flows into a basin with wetland and riparian vegetation. The downstream portion serves as a backflow channel and is a natural bottom.
112	Concrete V-Ditch (BMP)	Sheet 58	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
113	Concrete V-Ditch (BMP)	Sheet 58	N	N	N/a	N/a	This feature is a constructed v-ditch BMP. This is a non-jurisdictional feature.
114a	Concrete V-Ditch (BMP)	Sheet 58/ 59/ 60	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
114b	Concrete V-Ditch (BMP)	Sheet 59	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
115	Concrete V-Ditch (BMP)	Sheet 59	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
116	Concrete V-Ditch (BMP)	Sheet 60	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
117	Ephemeral stream	Sheet 60	Y	Y	1	3	This feature is a concrete-lined channel. OHWM indicators observed include water staining.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
118	Concrete V-Ditch (BMP)	Sheet 60/ 61	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
119	Concrete V-Ditch (BMP)	Sheet 60/ 61	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
120	Concrete V-Ditch (BMP)	Sheet 60	N	N	N/a	N/a	This feature is a constructed v-ditch BMP and was constructed to serve as a hillside BMP. This is a non-jurisdictional feature.
121	Erosional Feature	Sheet 41	N	N	N/a	N/a	This feature is erosional. Some discontinuous OHWM indicators observed.
122	Wetland	Sheet 68/69	Y	Y	Polygon	Polygon	This feature is outside of the proposed staging yard boundary, and access for jurisdictional measurements was not possible during the time of survey. The feature supports a well-established wetland/riparian area with adult willow and sycamore trees. The stream is an intermittent tributary to San Vicente Creek.
123	Wetland	Sheet 9	Y	Y	Polygon	Polygon	This feature is a stormwater detention basin within the proposed Lionshead Ave #5 staging yard. The basin supports wetland vegetation and hydrology.
124	Wetland	Sheet 71	Y	Y	Polygon	Polygon	This feature is a stormwater detention basin within the proposed Carlsbad Bus Park Staging yard. The basin supports wetland vegetation and hydrology.
125	Swale	Sheet 71	N	N	N/a	N/a	Vegetated swale constructed to convey flow to a detention basin.
126	Wetland	Sheet 71	Y	Y	Polygon	Polygon	This feature is a stormwater detention basin within the proposed Eagle Drive #2 staging yard. The basin supports wetland vegetation and hydrology.
127	Wetland	Sheet 55	Y	Y	Polygon	Polygon	This feature is a stormwater detention basin located south of the proposed South Andreasen staging yard, east of Citracado Parkway.

Feature ID	Feature Type	Mapsheet Number	Jurisdictional		Jurisdictional Extent (Feet)		Description
			USACE	CDFW	USACE (OHWM)	CDFW (Bank to Bank)	
128	Wetland	Sheet 53	Y	Y	Polygon	Polygon	This feature is a stormwater detention basin located in the southwest corner of the proposed South Andreasen staging yard, west of Citracado Parkway.

Appendix E
Summary Constraints Table

Table E-1 – Construction Constraint Table

Constraint	Distance from Feature (Feet)[2]	Feature ID	Mapsheet Number	Construction Status	Project Constraints
Location 7	5	002	Sheet 1	N/A	Work would include the replacement of a pier foundation. The work area is adjacent to Feature 002 (San Marcos Creek). **The work area has been revised to avoid the mapped extent of Feature 002.** Work area limits will need to be flagged to ensure that the work area avoids Feature 002.
Crosses Access Road	0	045	Sheet 17	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Location 35	1	10b	Sheet 6	N/A	The impact footprint occurs near the top of bank of Feature 10b. **The work area has been revised to avoid Feature 10b.** Work will be limited to the east side of the pole. Slopes are very steep adjacent to aquatic feature, discharge of materials should be avoided.
Crosses Access Road	0	049	Sheet 18	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	051	Sheet 19	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Location 72 work area	5	056	Sheet 21	N/A	Work would consists of overhead work to the existing pole. Work area limits will need to be flagged to ensure that the work area avoids Feature 056.
Work area between Location 70 and 71	1	060	Sheet 21	N/A	Work area occurs adjacent to Feature 060. The **work area has been revised to avoid impacts to feature.** Work area will be confined to the existing road.
Crosses Access Road	0	066	Sheet 24	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	067	Sheet 30	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	073	Sheet 35/ 36	Red	Access road crossing. No grading or road improvements allowed within this area without permits.

Constraint	Distance from Feature (Feet)[2]	Feature ID	Mapsheet Number	Construction Status	Project Constraints
Crosses Access Road	0	074	Sheet 37	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	080	Sheet 40	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	081	Sheet 41	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	083	Sheet 42	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	085b	Sheet 44	Red	Feature starts near the edge of the existing access road. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	085c	Sheet 44	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	085d	Sheet 44	Red	Access road crossing. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	086	Sheet 44	Red	Access road crossing within road. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	088b	Sheet 47	Red	Access road crossing within road. No grading or road improvements allowed within this area without permits.
Location 97 work area	5	089b	Sheet 46	Red	Feature within five feet of temporary impact area and adjacent to access road. Work area limits should be flagged to avoid impacts to this feature. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	091	Sheet 48	Red	Access road crossing within road. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	092	Sheet 48	Red	Access road crossing within road. No grading or road improvements allowed within this area without permits.
Location 99 work area	3	092	Sheet 48	N/A	Feature within three feet of temporary impact area. Work area limits should be flagged to ensure all work occurs within the access road limits and avoids impacts to this feature.

Constraint	Distance from Feature (Feet)[2]	Feature ID	Mapsheet Number	Construction Status	Project Constraints
Crosses Access Road	0	093	Sheet 49	Red	Access road crossing within road. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	098	Sheet 36	Red	Access road crossing within road. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	102	Sheet 51	Red	Access road crossing within road. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	111	Sheet 57	Red	Access road crossing within road. No grading or road improvements allowed within this area without permits.
Crosses Access Road	0	117a	Sheet 60	Red	Access road crossing within road. No grading or road improvements allowed within this area without permits.
Aquatic Resource within Staging Yard	5	122	Sheet 68	N/A	Feature 122 runs parallel to the staging yard footprint. Work area limits should be flagged to ensure all work occurs within the access road limits and avoids impacts to this feature.
Aquatic Resource within Staging Yard	1	123	Sheet 9	N/A	**The staging yard footprint has been revised to avoid this feature.** Staging yard limits will need to be flagged to ensure that the work area avoids Feature 123.
Aquatic Resource within Staging Yard	1	124	Sheet 71	N/A	**The staging yard footprint has been revised to avoid this feature.** Staging yard limits will need to be flagged to ensure that the work area avoids Feature 124.
Aquatic Resource within Staging Yard	1	126	Sheet 71	N/A	**The staging yard footprint has been revised to avoid this feature.** Staging yard limits will need to be flagged to ensure that the work area avoids Feature 126.
Aquatic Resource within Staging Yard	1	128	Sheet 53	N/A	**The staging yard footprint has been revised to avoid this feature.** Staging yard limits will need to be flagged to ensure that the work area avoids Feature 128.

Construction Status:
N/A = Feature that falls within the 300-foot survey corridor.
Red = Jurisdictional features and can neither be graded nor filled. Within the jurisdictional limits of these features the elevation of the streambed cannot change and the natural flow and patterns (hydrodynamics) of surface water cannot be impounded upstream of the water crossing. A culvert or other human-made structure to convey surface flows across the access road cannot be placed in the stream without authorization from the USACE, RWQCB, and CDFW.

Appendix D

Special-Status Plant and Wildlife Species Known or with Potential to Occur in the Survey Area

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
San Diego thorn-mint (*Acanthomintha ilicifolia*)	Yes	FT, SE, 1B.1	Annual herb. Prefers friable or broken clay soils in grassy openings in chaparral and coastal sage scrub, valley and foothill grassland, and vernal pools; 33–3,150 feet (ft). Blooming period: April–June	Suitable friable clay soils are very limited within the survey area. If present on- site this species would have been observed. **Low potential**.
California adolphia (*Adolphia californica*)	No	2B.1	Deciduous shrub. Clay soils in chaparral, coastal scrub, and valley and foothill grassland; 147–2,428 ft. Blooming period: December–May	Approximately 87 individuals were detected in the northwestern portion of the survey area. **Present.**
Del Mar manzanita (*Arctostaphylos glandulosa* ssp. *crassifolia*)	Yes	FE, 1B.1	Evergreen shrub. Maritime chaparral with sandy soils; 0–1,197 ft. Blooming period: December–June	Suitable soils for this species are not present within the survey area. This large shrub would have been visible during rare plant surveys if it were present. **Not expected**.
Rainbow manzanita (*Arctostaphylos rainbowensis*)	No	1B.1	Evergreen shrub. Chaparral; 672-2198 ft. Blooming period: December - March	Outside of the known range of this spatially restricted species. This large shrub would have been visible during rare plant surveys if it were present. **Not expected**.
San Diego sagewort (*Artemisia palmeri*)	No	4.2	Deciduous shrub. Sandy soils in mesic areas in chaparral, coastal scrub, riparian forest, riparian scrub, riparian woodland; 49–3,002 ft. Blooming period: February–September	Approximately 65 individuals were detected in the eastern portion of the survey area. **Present.**
South coast saltscale (*Atriplex pacifica*)	No	1B.2	Annual herb. Coastal bluff scrub, coastal dunes, coastal scrub, playas; 0-459 ft. Blooming period: March - October	Know from salt marshes which are within 5 miles of the PSA, but no appropriate habitat is present within the PSA. **Not Expected**
Encinitas baccharis (*Baccharis vanessae*)	Yes	FT, SE, 1B.1	Deciduous shrub. Sandstone in maritime chaparral and cismontane woodland; 196-2362 ft. Blooming period: August - November	Perennial subshrub which would have been detected during rare plant surveys if it were present. **Low potential**.
San Diego sunflower (*Bahiopsis* [=*Vigueria*] *laciniata*)	No	4.2	Perennial shrub. Coastal sage scrub and chaparral; 295–2,460 ft. Blooming period: February–August.	One individual detected in northwestern portion of PSA. **Present.**

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
San Diego goldenstar (*Bloomeria clevelandii*)	No	1B.1	Perennial bulbiferous herb. Clay soils in chaparral, coastal sage scrub, valley grasslands, particularly near mima mound topography or the vicinity of vernal pools; 164–1,526 ft. Blooming period: April–May	Suitable habitat for this species occurs within the survey area. If present on- site this species would have been observed **Low potential.**
Thread-leaved brodiaea (*Brodiaea filifolia*)	Yes	FT, SE, 1B.1	Perennial bulbiferous herb. Often found in clay soils in openings in chaparral, cismontane woodland, coastal scrub, playas, valley and foothill grassland, and vernal pools; 82–3,673 ft. Blooming period: March–June	Suitable habitat for this species occurs within the survey area. Surveys were conducted during an appropriate time of year to observe the species, and the species was not observed during surveys. However, all corms do not flower every year therefore there is a moderate potential for the species to occur. **Moderate potential**.
Orcutt's brodiaea (*Brodiaea orcuttii*)	Yes	1B.1	Bulbiferous herb. Found on mesic, clay, sometimes serpentinite soils in closed-cone coniferous forest, chaparral, cismontane woodland, meadows and seeps, valley and foothill grassland, and vernal pools; 98–5,550 ft. Blooming period: May–July	Approximately 147 individuals were observed within the southwestern portion of the survey area. **Present**.
Wart-stemmed ceanothus (*Ceanothus verrucosus*)	Yes	2B.2	Evergreen shrub. Chaparral; 3–1,240 ft. Blooming period: December–May	This species is found in extensive stands throughout the western half of the survey area**.** **Present**.
Southern tarplant (*Centromadia parryi* ssp. *australis*)	No	1B.1	Annual herb. Found within the margin of marshes and swamps, vernally mesic soils in valley and foothill grassland, and vernal pools, often in disturbed sites near the coast at marsh edges; also in alkaline soils sometimes with saltgrass. Sometimes on vernal pool margins; 0–1,570 ft. Blooming period: May–November	Suitable alkaline and vernal pool habitat does not occur within the survey area. If present on site, this species would have been observed. **Not expected.**

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
Orcutt's spineflower (*Chorizanthe orcuttiana*)	Yes	FE, SE 1B.1	Annual herb. Sandy openings in closed-cone coniferous forest, maritime chaparral, and coastal scrub; 9-410 ft. Blooming period: March - May	Primarily a coastal species. No current or historical records from inland areas such as the PSA occurs in. **Low Potential**
Summer holly (*Comarostaphylis diversifolia* ssp. *diversifolia*)	No	1B.2	Evergreen shrub. Chaparral and cismontane woodland; 98–2,590 ft. Blooming period: April–June	Approximately 57 individuals were observed in the western portion of the survey area. **Present.**
Del Mar sand aster (*Corethrogyne filaginifolia* var. *linifolia*)	Yes	1B.1	Perennial herb. Sandy soils in coastal bluff scrub, coastal scrub, and openings in maritime chaparral; 49-492 ft. Blooming period: May-September	Primarily a coastal species (w/in one mile of shore). No current or historical records from inland areas such as the PSA occurs in. **Low Potential**
Western dichondra (*Dichondra occidentalis*)	No	4.2	Perennial rhizomatous herb. Chaparral, cismontane woodland, coastal scrub, and valley and foothill grassland; 164–1,640 ft. Blooming period: January–July	Approximately 200 individuals were detected within the western portion of the survey area. **Present.**
Blochman's dudleya (*Dudleya blochmaniae ssp. Blochmaniae)*	Yes	1B.1	Perennial herb. Rocky, often clay or serpentine soils in coastal bluff scrub, chaparral, coastal scrub, and valley and foothill grassland; 16-1476 ft. Blooming period: April - June	Primarily a coastal species, localized in the Camp Pendleton area. No current or historical records from inland areas such as the PSA occurs in. **Low Potential**
Variegated dudleya (*Dudleya variegata*)	Yes	1B.2	Perennial herb. Clay soils in chaparral, cismontane woodland, coastal scrub, valley and foothill grassland, and vernal pools; 9-1903 ft. Blooming period: April - June	Marginally suitable habitat present within the PSA. Rare plant surveys were done at an appropriate time of year to detect the blooms of this species. Not observed during rare plant surveys. **Low Potential**
Sticky Dudleya (*Dudleya viscida*)	Yes	1B.2	Perennial herb. Rocky soils in coastal bluff scrub, chaparral, cismontane woodland, and coastal scrub; 32-1804 ft. Blooming period: May - June	Primarily a coastal bluff species, localized in the Camp Pendleton area. No current or historical records from inland areas such as the PSA occurs in. **Low Potential**

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
San Diego button-celery (*Eryngium aristulatum* var. *parishii*)	Yes	FE, SE 1B.1	Annual/perennial herb. Mesic soils in coastal scrub, valley and foothill grassland, and vernal pools; 65–2,034 ft. Blooming period: April–June	Appropriate vernal pool habitat does not occur within the survey area. **Not expected**
San Diego gumplant (*Grindelia hallii*)	No	1B.2	Perennial herb. Meadows, chaparral, lower montane coniferous forest, and valley and foothill grassland; 606–5,723 ft. Blooming period: May–October	A montane species. Almost all most verified occurrences of this species are from Julian, Cuyamaca, and Laguna Mountain areas. Not observed during rare plant surveys. **Not expected.**
Palmer's grapplinghook (*Harpagonella palmeri*)	Yes	4.2	Annual herb. Clay soils in chaparral, grasslands, coastal sage scrub; 65–3,132 ft. Blooming period: March–May	Approximately 300 individuals were detected in the northwestern portion of the survey area. **Present**.
Ramona horkelia (*Horkelia truncata*)	No	1B.3	Perennial herb. Clay and gabbroic soils in chaparral and cismontane woodland; 1,312–4,265 ft. Blooming period: May–June	Suitable gabbroic/granitic soils are limited within the survey area. Not observed during rare plant surveys. **Low Potential**.
Decumbent goldenbush (*Isocoma menziesii* var. *decumbens*)	No	1B.2	Perennial shrub. Chaparral and in sandy coastal scrub, often in sandy disturbed areas; 33–443 ft. Blooming period: April–November	Suitable sandy soils do not occur within the survey area. If present on site, this species would have been observed. **Not expected**.
San Diego marsh-elder (*Iva hayesiana*)	No	2B.2	Perennial herb. Marshes and swamps, wetland areas, and playas; 32–1,640 ft. Blooming period: April–October	Several individuals were detected in a riparian area in the western portion of the survey area. **Present**.
Coulter's goldfields (*Lasthenia glabrata* ssp. *coulteri*)	No	1B.1	Annual herb. Coastal salt marsh, coastal salt swamps, playas, vernal pools; 3-4001 ft. Blooming period: February - June	No suitable habitat present within the PSA. **Not expected.**
Sea dahlia (*Leptosyne maritima*)	No	2B.2	Perennial herb. Coastal bluff scrub and coastal scrub; 16–492 ft. Blooming period: March–May	Suitable coastal bluff habitat does not occur within the survey area. Not observed during rare plant surveys. . **Not expected.**
Small-flowered microseris (*Microseris douglasii* ssp. *platycarpha*)	No	4.2	Annual herb. Clay soils in cismontane woodland, coastal scrub, valley and foothill grassland, and vernal pools; 49–3,510 ft. Blooming period: March–May	Approximately 15 individuals were detected in the western portion of the survey area. **Present.**

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
Felt-leaved monardella (*Monardella hypoleuca* ssp. *lanata*)	Yes	1B.2	Rhizomatous herb. Chaparral and cismontane woodland; 984–5,040 ft. Blooming Period: June–August	Suitable sandy soils do not occur within the survey area. If present on site this species would have been observed. **Not expected.**
Spreading navarretia (*Navarretia fossalis*)	Yes	FT, 1B.1	Annual herb. Chenopod scrub, assorted freshwater marshes and swamps, playas, and vernal pools; 98–2,149 ft. Blooming period: April–June	Appropriate vernal pool habitat does not occur within the survey area. **Not Expected.**
Golden-rayed pentachaeta (*Pentachaeta aurea* ssp. *aurea*)	No	4.2	Annual herb. Chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, riparian woodland, and valley and foothill grassland; 262–6,068 ft. Blooming period: March–July.	Approximately 271 individuals were detected within the western portion of the survey area. **Present.**
Nuttall's scrub oak (*Quercus dumosa*)	No	1B.1	Perennial evergreen shrub. Sandy or clay loam in closed-cone coniferous forest, chaparral, and coastal scrub; 49–1,312 ft. Blooming period: February–August	Several large stands of this species were detected within the western portion of the survey area. **Present.**
Ashy spike-moss (*Selaginella cinerascens*)	No	4.1	Perennial rhizomatous herb. Chaparral and coastal sage scrub; 65–2,100 ft.	This species is found in several small patches on exposed rock outcrops and open soils in the western portion of the survey area. **Present.**
Estuary seablite (*Suaeda esteroa*)	No	1B.2	Perennial herb. Coastal salt marshes and swamps; 0-16 ft. Blooming period: May - January	Know from salt marshes which are within 5 miles of the PSA, but no appropriate habitat is present within the PSA. **Not Expected**
Invertebrates				
San Diego fairy shrimp (*Branchinecta sandiegoensis*)	Yes	FE	Vernal pools. All known localities are below 2,300 ft and are within 40 miles of the Pacific Ocean.	No suitable road rut or vernal pool habitat present in the PSA. **Not Expected**
Amphibians				
Western spadefoot (*Spea* (=*Scaphiopus) hammondii*)	Yes	SSC	Temporary pools with water temperatures between 9 degrees Celsius (°C) and <30°C that last at least 3 weeks within areas of open vegetation.	Habitat requirements necessary for this species are limited within the PSA. **Low Potential**

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
Arroyo toad (*Anaxyrus californicus*)	Yes	FE SSC	Arroyo toad is known to inhabit washes, arroyos, sandy riverbanks, riparian areas with willows, sycamores, oaks, and/or cottonwoods. This species has extremely specialized habitat needs, including exposed sandy streamsides with stable terraces for burrowing with scattered vegetation for shelter. For breeding, areas of quiet water or pools free of predatory fishes with sandy or gravel bottoms without silt are required, between 0 and 3,000 ft in elevation. In addition, during the non-breeding season, this species may disperse up to 6,560 ft from breeding areas and may use various upland habitats, including grasslands.	Habitat requirements necessary for this species are absent from the PSA. **Not Expected**
Reptiles				
California glossy snake (*Arizona elegans occidentalis*)	No	SSC	Sandy habitat in grasslands, coastal sage scrub and chaparral	Historical records from 1946 from within 5 miles of the site. No modern records. The PSA generally does not support the sandy habitat preferred by this species. **Low Potential**
Coastal whiptail (*Aspidoscelis tigris stehnegeri*)	No	SSC	Inhabits coastal sage scrub, chaparral, riparian, oak woodlands, and rocky areas. Occurs in habitats with gravel or sandy soils, often associated with washes.	The PSA contains habitat suitable to support this species. Also, the CNDDB lists two occurrences within 1 mile of the PSA. **High Potential**
Coast horned lizard (*Phrynosoma blainvillii*)	Yes	SSC	Grasslands, brushlands, woodlands, and open coniferous forest with sandy or loose soil; requires abundant ant colonies for foraging.	The PSA contains habitat suitable to support this species. The CNDDB lists four occurrences within 1 mile of the PSA. **High Potential**
Coronado skink (*Plestiodon skiltonianus interparietalis*)	Yes	WL	Forest, open woodland and grassy areas. Usually found under leaf litter, logs or rocks.	The PSA contains habitat suitable to support this species. CNDDB records within 5-miles of the PSA. **High Potential**

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
Coast patched-nosed snake (*Salvadora hexalepis virgultea*)	Yes	SSC	Inhabits semi-arid brushy areas and chaparral in canyons, rocky hillsides, and plains.	The PSA contains habitat suitable to support this species. Also, the CNDDB lists one occurrence within 1 mile of the PSA. **High Potential**
Orange-throated whiptail (*Aspidoscelis hyperythra*)	Yes	WL	Orange-throated whiptail occurs in semi-arid, brushy areas typically with loose soil and rocks, including washes, streamsides, rocky hillsides, coastal sage scrub, and chaparral. This species can also occur in weedy, disturbed areas adjacent to these habitats.	The PSA contains habitat suitable to support this species. Also, the CNDDB lists two occurrences within 1 mile of the PSA. **High Potential**
Southwestern pond turtle (*Emys marmorata*)	Yes	SSC	Requires slack- or slow-water aquatic habitat as well as aerial and aquatic basking sites. Also requires an upland oviposition site on an unshaded slope with clay soils, in the vicinity of the aquatic site.	Habitat requirements necessary for this species are absent from the PSA. **Not Expected**
Two-striped garter snake (*Thamnophis hammondii*)	Yes	SSC	Inhabits perennial and intermittent streams with rocky beds and bordered by willow thickets or other dense vegetation.	While this species has been recorded within 1 mile of the PSA (CNDDB), the PSA contains limited habitat suitable to support this species. **Moderate Potential**
Birds				
Belding savanna sparrow (*Passerculus sandwichensis beldingi*)	Yes	CE	Nests exclusively in coastal salt marsh dominated by pickleweed.	Know from salt marshes which are within 5 miles of the PSA, but no appropriate marsh habitat is present within the PSA. **Not Expected**
Bells sage sparrow (*Artemisiospiza belli belli*)	No	WL	Open chaparral and sage scrubs.	Widespread but uncommon species. Appropriate habitat present in the PSA, but not observed during focused avian surveys in 2016. **Moderate Potential**

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
Burrowing owl (*Athene cunicularia*)	Yes	SSC	Prairies, grasslands, lowland scrub, agricultural lands, coastal dunes, desert floors, and some artificial, open areas. They require large open expanses of sparsely vegetated areas on gently rolling or level terrain with an abundance of active small mammal burrows. They use rodent or other burrows for roosting and nesting cover and also known to use pipes, culverts, and nest boxes where burrows are scarce.	No contemporary nesting locations known from anywhere in the vicinity of the PSA. Limited suitable habitat. Not observed during any survey of the PSA **Not Expected**
California horned lark (*Eremophila alpestris actia*)	No	WL	Grasslands, recently disturbed habitat where seeds and insects are easy to find.	Appropriate habitat present in the PSA, but not observed during focused avian surveys in 2016. **Moderate Potential**
Coastal California gnatcatcher (*Polioptila californica californica*)	Yes	FT SSC	Prefer open scrubby habitats such as coastal sage scrub and some forms of chaparral.	Species was detected during the 2016 focused surveys. **Present**
Cooper's hawk (*Accipiter cooperii*)	Yes	WL	Oak groves and mature stands of riparian woodland. This species has adapted well to development and is abundant in urban canyons with eucalyptus trees.	Species was detected incidentally during site visits. **Present**
Least Bell's vireo (*Vireo bellii pusillus*)	Yes	FE CE	Riparian thickets either near water or in dry portions of river bottoms; nests along margins of bushes and forages low to the ground; may also be found using mesquite and arrow weed in desert canyons.	Species was detected during the 2016 focused surveys. **Present**
Light-footed Ridgway's Rail (*Rallus obsoletus levipes*)	Yes	FE CE CFP	Salt marsh dominated by *Spartina* is the primary breeding habitat. Will occasionally nest in brackish or freshwater marsh near the coast.	Know from salt marshes which are within 5 miles of the PSA, but no appropriate marsh habitat is present within the PSA. **Not Expected**

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
San Diego cactus wren (*Campylorhynchus brunneicapillus sandiegensis*)	Yes	SSC	Resident in coastal sage scrub with extensive or large cactus. Normally nests in large cactus thickets, with nests over 3 ft aboveground.	Not detected during focused California gnatcatcher surveys in coastal sage scrub. Limited potential habitat present. **Low Potential**
Southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*)	Yes	WL	Fairly common, widespread, and generally fairly conspicuous resident of rocky grassland and patchy shrub habitats, often including areas with disturbance from fire, trash, soil compaction and non-native vegetation.	Species was detected during the 2016 focused surveys. **Present**
Southwestern willow flycatcher *Empidonax trallii extimus)*	Yes	FE CE	Will forage over a variety of habitats; however, species does not breed in California.	Potentially suitable nesting and foraging habitat for this species is located within the PSA and was surveyed in 2016. Species was not detected during 2016 focused USFWS-protocol surveys. **Low Potential**
Tricolored blackbird (*Agelaius tricolor*)	No	CC	Breeds primarily in freshwater marshes with tall emergent vegetation; also stinging nettle and upland habitats such as thickets of Himalayan blackberry. Forages in rangelands, shrublands and agricultural fields.	Suitable acreage of breeding and foraging is not present within the PSA. **Low Potential**
Western snowy plover (*Charadrius alexandrinus nivosus*)	Yes	FT SSC	Sandy beaches, lagoon margins, tidal mud flats. Migrant and winter resident. Migratory breeder in San Diego County; uses beaches, dunes and salt flats for nesting.	Know to nest on salt flats and sandy beaches within 5 miles of the PSA, but no appropriate nesting habitat is present within the PSA. **Not Expected**
White-tailed Kite *(Elanus leucurus*)	No	CFP	Nests in trees or large shrubs. Forages in grasslands and coastal sage scrub	Shrubs in chaparral provide suitable nesting habitat for this species. Kite is known from the region. Not observed during focused avian surveys of the PSA. **Moderate Potential**.

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
Yellow-billed cuckoo (*Coccyzus americanus*)	No.	FT CE	This species is restricted to cottonwood-dominated woodlands and forests along rivers. Nests in large trees, often cottonwoods.	Extremely rare in San Diego County. Not documented in PSA. **Not Expected**
Yellow-breasted Chat (*Icteria virens*)	No	SSC	Associated with mature riparian woodland. Common summer resident in appropriate habitat throughout San Diego County.	Species was not detected during 2016 focused riparian bird surveys; however, nesting and foraging habitat suitable to support this species is located within the PSA. **Moderate Potential**
Yellow warbler (*Setophaga petechia*)	No	SSC	Associated with mature riparian woodland. Common summer resident in appropriate habitat throughout San Diego County.	Species was detected during the 2016 focused surveys. **Present**
Mammals				
American badger (*Taxidea taxus*)	Yes	SSC	Inhabit a diversity of habitats with principal requirements of sufficient food, friable soils, and relatively open, uncultivated ground. Grasslands, savannas, mountain meadows, and desert scrub.	The PSA contains habitat suitable to support this species. This is a wide-ranging but uncommon species. The CNDDB lists one occurrence within 1 mile of the PSA. **Moderate Potential**
Big free-tailed bat (*Nyctinomops macrotis*)	No	SSC	Inhabits arid, rocky areas; roosts in crevices in cliffs. Has been recorded in urban locations in San Diego County Species is rare in California.	No suitable roosting habitat in PSA. **Not Expected**
Northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*)	Yes	SSC	Coastal sage scrub, sage scrub/grassland ecotones, and chaparral communities.	The PSA contains habitat suitable to support this species. Also, the CNDDB lists one occurrence within 1 mile of the PSA. **High Potential**

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
Pallid bat (*Antrozous pallidus*)	No	SSC	Throughout So. Cal. from coast to mixed conifer forest; grasslands, shrublands, woodlands, & forest; most common in open, dry habitats w/ rocky areas for roosting; yearlong resident in most of range. Roosts in rock crevices, caves, mine shafts, under bridges, in buildings and tree hollows.	Limited potential habitat present within the PSA **Low Potential**
San Diego black-tailed jackrabbit (*Lepus californicus bennettii*)	Yes	SSC	Mostly found on the coastal side of local mountains in open habitats, usually avoiding dense stands of chaparral or woodlands.	The PSA contains habitat suitable to support this species. Also, the CNDDB lists one occurrence within 1 mile of the PSA. **High Potential**
San Diego desert woodrat (*Neotoma lepida intermedia*)	Yes	SSC	Variety of shrub and desert habitats primarily associated with rock outcroppings, boulders, cacti, or areas of dense undergrowth.	The PSA contains habitat suitable to support this species. T the CNDDB lists two occurrences within 1 mile of the PSA. **High Potential**
Townsend's big-eared bat (*Corynorhinus townsendii)*	No	CT	Species can be found in a variety of habitats throughout the state where appropriate roosting habitat exists. Primarily roosts in caves and cavern-like spaces; also in abandoned buildings, mines, culverts, box-like spaces in bridges and other structures, and large hollows in trees. Very sensitive to human disturbances.	No suitable roosting habitat within the PSA. The CNDDB lists one historical occurrence within 1 mile of the PSA. **Not Expected**
Mule deer	Yes	—	Species can be found in a variety of habitats.	The PSA contains habitat suitable to support this species. **High Potential**

[1]Explanation of state and federal listing codes:

Federal listing codes:
FE: Federally Endangered Species
FT: Federally Threatened Species
FC: Candidate for Federal Listing
Source: CDFW 2017

California listing codes:
CE: State-listed Endangered Species
CR: State-listed Rare Species
SSC: California Species of Special Concern
WL: CDFW Watch List
CFP: California Fully Protected

California Rare Plant Ranking (CNPS Lists):
1B. rare or endangered in California and elsewhere
2B. rare or endangered in California, more common elsewhere
4. plants of limited distribution–watch list
Threat Ranks: .1 – seriously endangered in California, .2 – fairly endangered in California, .3 – Not very endangered in California

Species Name	Covered under the NCCP (Yes/No)	Listing Status[1]	Habitat Requirements	Potential to Occur
CC: Candidate for State Listing				

Appendix E

2016 Field Habitat Assessment for Arroyo Toad (*Anaxyrus californicus*) for SDG&E TL 6975

2016 Field Habitat Assessment for Arroyo Toad (*Anaxyrus californicus*) for SDG&E TL6975

Prepared for SDG&E by ICF

Introduction and Methods

KP Environmental and ICF biologists conducted field surveys and desk-top analysis to identify potential biological resources that could be impacted by SDG&E's TL6975 project during 2015. The findings were presented in the Biological Constraints Report for the TL6975 Project (KP Environmental 2015). The report indicated that there is a moderate potential for Arroyo Toad (ARTO) to occur within the project survey area (defined as 300 foot-wide corridor centered on the proposed transmission line and 100 foot-wide corridor centered on access roads). The biological constraints analysis identified the following habitat types as providing suitable ARTO habitat:

- Southern Riparian Forest and Southern Willow Scrub
- Disturbed Southern Willow Scrub
- Oak Riparian
- Southern Coast Live Oak Riparian Forest

A field habitat assessment was conducted within the project survey area by ICF wildlife biologists Manna Warburton and Will Kohn on April 5, 2016. The purpose of the field habitat assessment was to field-truth the results of the 2015 constraints analysis for ARTO. Weather conditions during the field assessment were favorable; 65-70 °F, wind 1-3 mph, 30-50% cloud cover, and good visibility. The field habitat assessment was focused on those areas that provide potentially suitable ARTO habitat types (Figure 1) to determine if they provide suitable habitat elements such as unconsolidated sandy banks, shallow braided channels, 10-year flood benches, and connected upland habitat as identified in the Arroyo Toad Species Report (2014).

Additionally, ICF searched database sources to determine the closest known ARTO occurrences to the project. The closest known ARTO occurrences are within San Dieguito Creek approximately 5.5 miles southeast of the east end of the project (Figure 1).

2016 Field Habitat Assessments

Site 1. Site 1 includes San Marcos Creek crossed by Discovery Street (Figure 1). Nearby cross streets are West San Marcos Boulevard and San Pablo Drive. The site includes approximately 300 feet of the wetted stream channel of San Marcos creek upstream from Lake San Marcos. The site appears to support perennial surface

water and is heavily vegetated. Banks are clay soils that are heavily overgrown by willow (*Salix* spp.) and pepper trees (*Schinus molle*). Open canopy sections above the stream reach are occupied by cattails (*Typhus* sp.). Aquatic species observed include non-native largemouth bass (*Micropterus salmoides)* and slider turtle species (*Trachemys sp.)*.

This site does not contain appropriate ARTO habitat. Habitat features such as unconsolidated sandy banks, shallow braided channels, 10-year flood benches, or connected upland habitat were not present at this site.

Site 2. Site 2 is an ephemeral channel crossed by Acacia Drive (Figure 2). Nearby cross streets are West San Marcos Boulevard and Sequoia Street. The site includes approximately 450 feet of ephemeral stream channel of an un-named drain. The site was wetted at the time of the survey. Available surface water was restricted to the mouth of two storm drains situated in parallel, and to the southern channel downstream of the southern storm drain. Some unconsolidated sandy soils were present in the southern drain. Vegetation was a mix of native and exotic riparian scrub, with the north drain being occupied entirely by sedges (*Carex* spp.). No aquatic reptiles or amphibians were observed.

This site does not contain appropriate ARTO habitat. We observed low quality sandy banks as indicated by the presence of exotic grasses and low quality shallow braided channels that were heavily shaded and overgrown. This site did not possess 10-year flood banks or connectivity to upland habitat.

Site 3. Site 3 is an ephemeral channel adjacent to White Sands Drive (Figure 2). Nearby cross streets are Island Shore Way to the north and Sun Valley Road to the south. The site includes approximately 400 feet of ephemeral stream channel of an un-named drain. The site was dry at the time of the survey. The drain was armored with rock rip-rap. Vegetation consisted of willow riparian scrub. No aquatic reptiles or amphibians were observed.

There was some available surface water at the confluence of the above site with another un-named drain. This included a small pool and seeps around a heavily vegetated channel. Vegetation was the same as above. No aquatic reptiles or amphibians were observed.

This site does not contain appropriate ARTO habitat. Habitat features such as unconsolidated sandy banks, shallow braided channels, or 10-year flood benches were not present at this site. The site did possess connected upland habitat, but the gradient at the site (greater than 7%) was too high to be suitable for ARTO habitat.

Site 4. Site 4 was located in San Marcos Creek adjacent to Melrose Drive (Figure 3). Nearby cross streets are Diamond Street to the north and San Elijo Road to the south. The site includes approximately 900 feet of stream channel. The site was wetted and flowing at the time of the survey. The upstream portion of the site terminated in a natural bedrock pool that was wetted at the time of the survey. Vegetation consisted of willow riparian scrub. Soils were coarse but unconsolidated, and there were sections of un-vegetated understory in the survey reach. Aquatic species observed were exotic slider turtle species, which were only observed at the bedrock pool just outside the survey area. Red swamp crayfish (*Procambarus clarkia*) were observed in slower moving portions of the stream channel downstream.

This site contains marginal habitat for ARTO. Unconsolidated banks were present but aggregate sizes were generally on the large size (pebble to cobble). The wetted stream channel was shallow and braided in some sections. There were no 10-year flood benches. There was available connected upland habitat.

Site 5. Site 5 was an un-named ephemeral channel draining into San Elijo Creek, near Wilgen Drive (Figure 4). Nearby cross streets are Bresa De Loma Drive to the north and Harmony Grove Road to the south. The site includes approximately 400 feet of stream channel. The site was dry at the time of the survey. Vegetation consisted of disturbed native scrub and oak woodland. The stream channel consisted of unconsolidated sandy soils. No aquatic reptiles or amphibians were observed.

This site does not contain appropriate ARTO habitat. The drainage was highly channelized and narrow. The only unconsolidated soils were in the drain itself. The drain appears to be highly ephemeral, with no evidence of algae or other aquatic plants. The site does contain available connected upland habitat.

Site 6. Site 6 was an un-named storm water detention basin, near Kauana Loa Drive (Figure 1). Nearby cross streets are Oak View Way to the north and Harmony Grove Road to the south. The site includes approximately 550 feet of riparian area. The site was dry at the time of the survey. Vegetation consisted of emergent aquatic vegetation including tules (*Cyperus* sp.) and sedges bordered by willow. Soils were consolidated clay covered by rip-rap or exotic grasses and weeds.

This site does not contain appropriate ARTO habitat. We did not observed any unconsolidated sandy banks, shallow braided channels, 10-year flood benches, or connectivity to upland habitat.

Site 7. Site 7 was an un-named riparian area, near Country Club Drive (Figure 1). Nearby cross streets include El Rocko Road to the north and Harmony Heights Road to the south. The site appears to be contained entirely on private land and there was no available access. The site was not surveyed on foot. Based on the low probability of appropriate habitat, the ICFI biologist suggests that no additional effort be expended for this site.

This site does not contain appropriate ARTO habitat. We did not observed any unconsolidated sandy banks, shallow braided channels, 10-year flood benches, or connectivity to upland habitat.

Conclusion

Most of the project study area (Sites 1-3 and 5-7) do not provide suitable ARTO habitat. Site 4 does contain some of the elements that provide suitable habitat, but the conditions were marginal. Based on the lack of suitable habitat conditions within the survey area and the nearest ARTO occurrence records approximately 5.5 miles southeast of the project area, protocol ARTO surveys are not recommended.

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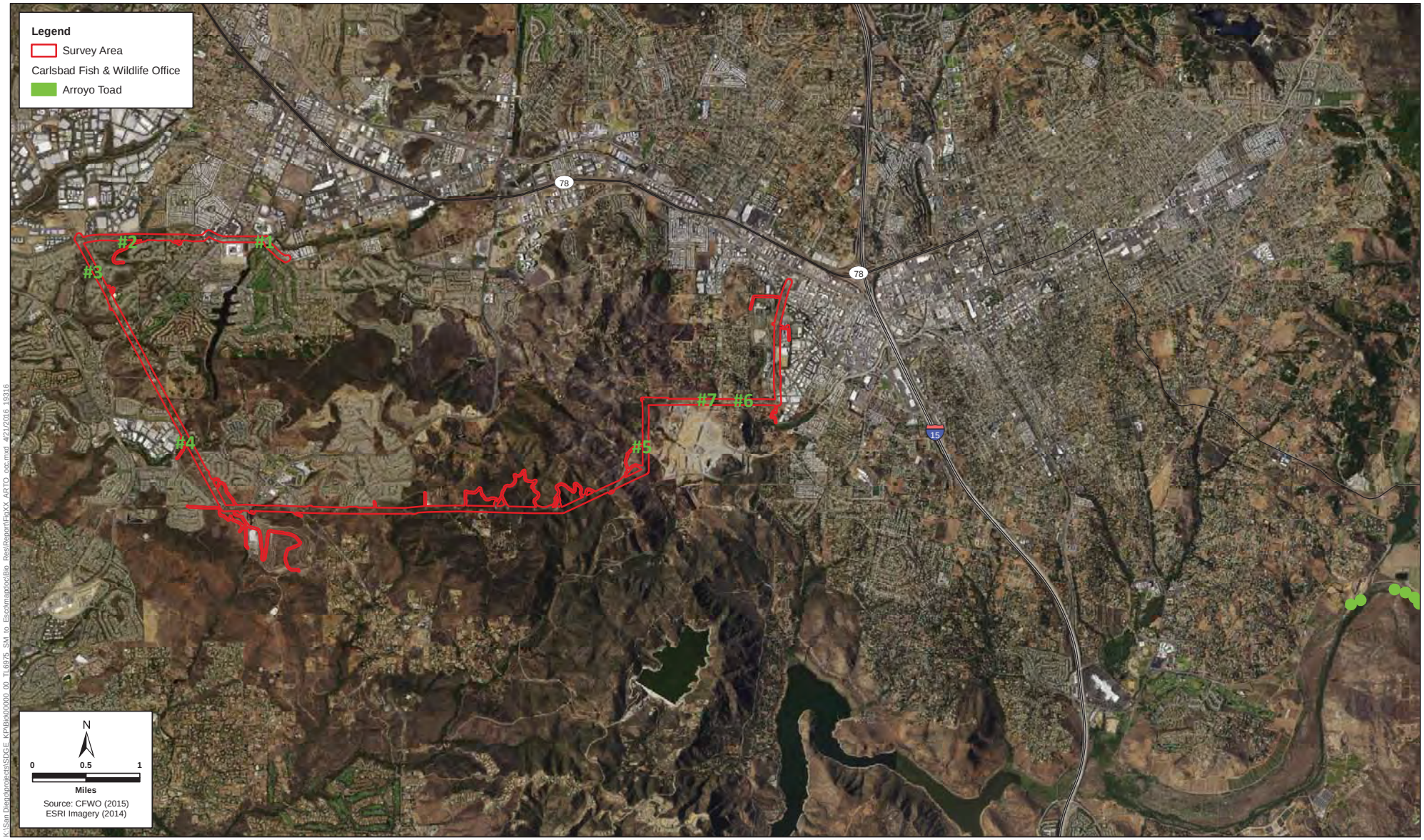
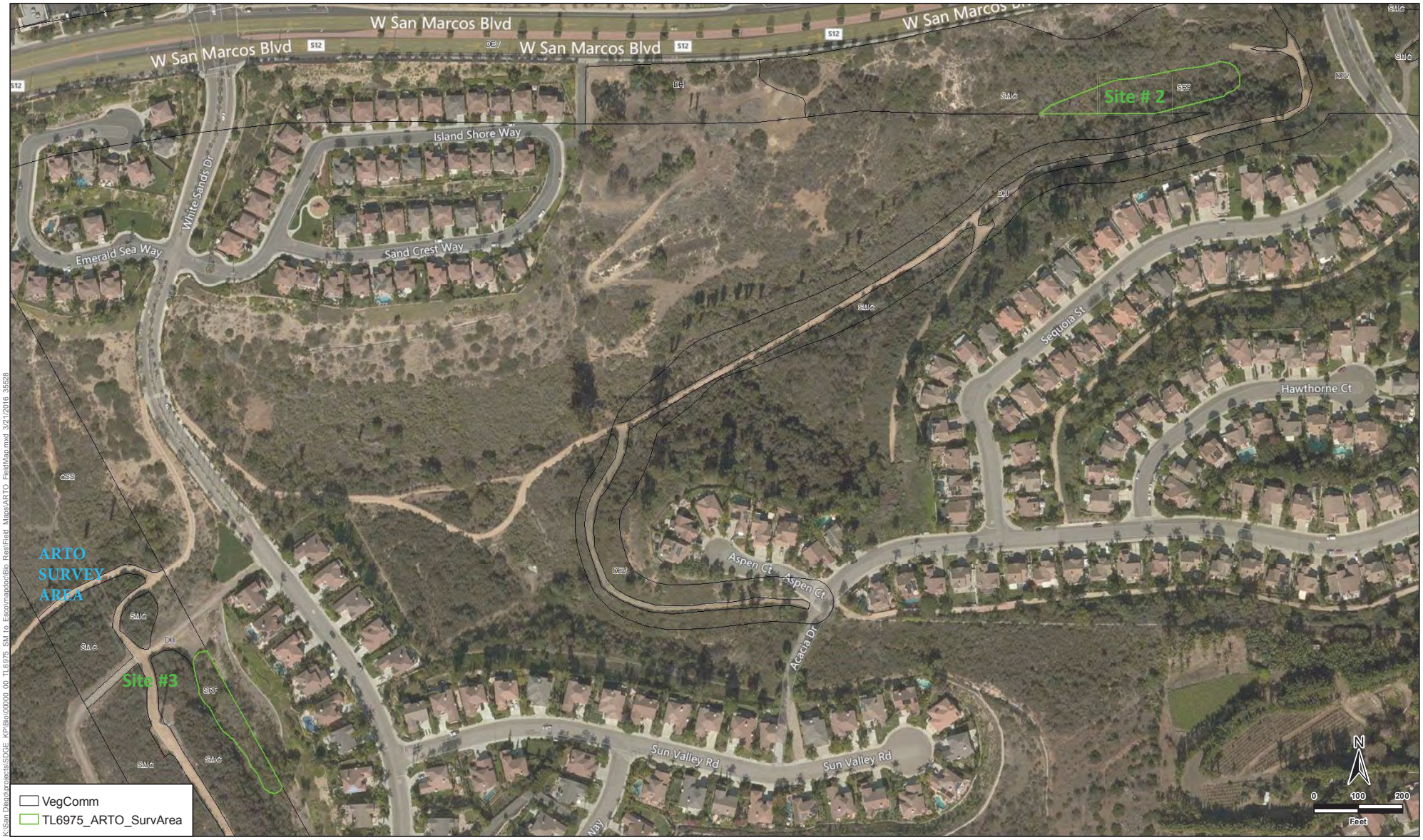


Figure 1. Arroyo Toad Occurrence and ARTO surveys TL6975



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Figure 2. ARTO Surveys SDG&E TL6975



Figure 3. ARTO Surveys SDG&E TL6975



Figure 4. ARTO Surveys SDG&E TL6975

Appendix F

SDG&E Natural Communities Conservation Plan Operational Protocols

7.1 Operational Protocols

Operational protocols represent an environmentally sensitive approach to traditional utility construction, maintenance and repair Activities recognizing that slight adjustments in construction techniques can yield major benefits for the environment. The appropriate Operational Protocols for each individual project will be determined and documented by the Environmental Surveyor. The information regarding the qualifications and responsibilities of the environmental surveyor is contained in Appendix B. The following mitigation measures shall be adhered to by SDG&E.

7.1.1 General Behavior for All Field Personnel

1. Vehicles must be kept on access roads. A 15 mile-per-hour speed limit shall be observed on dirt access roads to allow reptile species to disperse. Vehicles must be turned around in established or designated areas only.

2. No wildlife, including rattlesnakes, may be harmed, except to protect life and limb.

3. Firearms shall be prohibited on the rights-of-way except for those used by security personnel.

4. Feeding of wildlife is not allowed.

5. SDG&E personnel are not allowed to bring pets on the rights-of-way in order to minimize harassment or killing of wildlife and to prevent the introduction of destructive domestic animal diseases to native wildlife populations.

6. Parking or driving underneath oak trees is not allowed in order to protect root structures except in established traffic areas.

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7. Plant or wildlife species may not be collected for pets or any other reason.

8. Littering is not allowed. SDG&E shall not deposit or leave any food or waste on the rights-of-way or adjacent property.

9. Wild Fires shall be prevented or minimized by exercising care when driving and by not parking vehicles where catalytic converters can ignite dry vegetation. In times of high fire hazard, it may be necessary for trucks to carry water and shovels, or fire extinguishers in the field. The use of shields, protective mats, or other fire prevention methods shall be used during grinding and welding to prevent or minimize the potential for fire. Care should be exhibited when smoking in natural habitats.

10. Field crews shall refer environmental issues including wildlife relocation, dead or sick wildlife, hazardous waste, or questions about avoiding environmental impacts to the Environmental Surveyor. Biologists or experts in wildlife handling may need to be brought in by Environmental Surveyor for assistance with wildlife relocations.

7.1.2 Training

11. All SDG&E personnel working within the project area shall participate in an employee training program conducted by SDG&E, with annual updates. The program will consist of a brief discussion of endangered species biology and the legal protections afforded to Covered Species; a discussion of the biology of the Covered Species protected under this Subregional Plan; the habitat requirements of these Covered Species; their status under the Endangered Species Acts; measures being taken for the protection of Covered Species and their habitats under this Subregional Plan; and a review of the Operational Protocols. A fact sheet conveying this information will also be distributed to all employees working in the project area.

12. Designated SDG&E staff will conduct selected reviews of SDG&E operations. Any proposed modifications to Operational Protocols, procedures or conditions will be promptly provided to CDFG and USFWS for their review and input for required permit or Subregional Plan amendments.

7.1.3 Preactivity Studies

13. The Environmental Surveyor shall conduct preactivity studies for all activities occurring off of access roads in natural areas. The scope of these studies is included in Appendix A. The Environmental Surveyor will complete a preactivity study form contained in Appendix A, including recommendations for review by a biologist and construction monitoring as appropriate. Biologists should be called in when there is the potential for unavoidable impacts to Covered Species. The forms are for information only, and will not require CDFG or USFWS approval. These forms shall be faxed to CDFG and USFWS, along with phone notification, who will reply within 5 working days, indicating if they would like to review the project and/or suggest recommendations for post project monitoring. If a biologist is required, he/she will be contacted concurrent to notification to CDFG and USFWS. SDG&E's project may proceed during this time if necessary, in compliance with the recommendations of the biologist (For narrow endemic species see mitigation IV following Table 3.1). USFWS survey protocols performed by qualified biologists will be required for new projects which are defined as projects requiring CEQA review.

In those situations where the Environmental Surveyor cannot make a definitive species

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identification, an on-call biologist will be brought in. When the biologist is called, he or she will be contacted concurrently with CDFG and USFWS. The biologist will make the determination of the species in question and recommend avoidance or mitigation approaches to the Environmental Surveyor and a decision will be made. In those situations where more than one visit may be necessary to identify a given species, such as certain birds, no more than three site visits shall be required. It is expected that the typical USFWS search protocols will not be utilized in most situations due to the Plan's avoidance priority. Background information necessary to complete the annual report shall be collected on the preactivity study form and used by SDG&E to prepare the annual report.

14. In order to ensure that habitats are not inadvertently impacted, the Environmental Surveyor shall determine the extent of habitat and flag boundaries of habitats which must be avoided. When necessary, the Environmental Surveyor should also demark appropriate equipment laydown areas, vehicle turn around areas, and pads for placement of large construction equipment such as cranes, bucket trucks, augers, etc. When appropriate, the Environmental Surveyor shall make office and/or field presentations to field staff to review and become familiar with natural resources to be protected on a project specific basis.

15. SDG&E will maintain a library of rare plant locations known to SDG&E occurring within easements and fee owned properties. "Known" means a verified population, either extant or documented using record data. Information on known sites may come from a variety of record data sources including local agency Habitat Conservation Plans, pre-activity surveys, or biological surveys conducted for environmental compliance on a project site (e.g. initial study), but there is no requirement for development of original biological data. Plant inventories shall be consulted as part of pre-activity survey procedures.

7.1.4 Maintenance, Repair and Construction of Facilities

16. Maintenance, repair and construction Activities shall be designed and implemented to minimize new disturbance, erosion on manufactured and other slopes, and off-site degradation from accelerated sedimentation, and to reduce maintenance and repair costs.

17. Routine maintenance of all Facilities includes visual inspections on a regular basis, conducted from vehicles driven on the access roads where possible. If it is necessary to inspect areas which cannot be seen from the roads, the inspection shall be done on foot, or from the air.

18. When the view of a gas transmission line marker becomes obscured by vegetation on a regular basis requiring repeated habitat removal, consideration shall be given to the replacement of markers with taller versions.

19. Erosion will be minimized on access roads and other locations primarily with water bars. The water bars are mounds of soil shaped to direct flow and prevent erosion.

20. Hydrologic impacts will be minimized through the use of state-of-the-art technical design and construction techniques to minimize ponding, eliminate flood hazards, and avoid erosion and siltation into any creeks, streams, rivers, or bodies of water by use of Best Management Practices.

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21. When siting new facilities, every effort will be made to cross the wetland habitat perpendicular to the watercourse, spanning the watercourse to minimize the amount of disturbance to riparian areas (See Figure 4).

22. Gas and other facilities cross streambeds and require maintenance and repair. During such times water may be temporarily diverted as long as after disturbance natural drainage patterns are restored to minimize the impact of the disturbance and help to reestablish or enhance the native habitat. Erosion control during construction in the form of intermittent check dams and culverts should also be considered to prevent alteration to natural drainage patterns and prevent siltation.

23. Impacts to wetlands shall be minimized by avoiding pushing soil or brush into washes or ravines.

24. During work on facilities, all trucks, tools, and equipment should be kept on existing access roads or cleared areas, to the extent possible.

25. Environmental Surveyor must approve of activity prior to working in sensitive areas where disturbance to habitat may be unavoidable.

26. Insulator washing is allowed from access roads if other applicable protocols are followed.

27. Brush clearing around facilities for fire protection shall not be conducted from March through August without prior approval by the Environmental Surveyor. The Environmental Surveyor will make sure that the habitat contains no active nests, burrows, or dens prior to clearing.

28. In the event SDG&E identifies a covered species of plant within a 10' radius around power poles, which is the area required to be cleared for fire protection purposes, SDG&E shall notify USFWS (for ESA listed plants), and CDFG (for CESA listed plants), in writing, of the plant's identity and location and of the proposed Activity, which will result in a Take of such plant. Notification will occur ten (10) working days prior to such Activity, during which time USFWS or CDFG may remove such plant(s). If neither USFWS or CDFG have removed such plant(s) within the ten (10) working days following the notice, SDG&E may proceed to complete its fire clearing and cause a Take of such plant(s).

    When fire clearing is necessary in instances other than around power poles, and the potential for impacts to Covered Species exists, SDG&E will follow the preactivity study and notification procedures in Operational Protocol number 13.

29. Wire stringing is allowed year round in sensitive habitats if conductor is not allowed to drag on ground or in brush and vehicles remain on access roads.

30. Maintenance of cut and fill slopes shall consist primarily of erosion repair. In situations where revegetation would improve the success of erosion control, planting or seeding with native hydroseed mix may be done on slopes.

31. Spoils created during maintenance operations shall be disposed of only on previously disturbed areas designated by the Environmental Surveyor or used immediately to fill eroded areas. Cleared vegetation shall be hauled off the rights-of-way to a permitted disposal location.

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32. Within 6 months of Plan approval, environmentally sensitive tree trimming locations will be identified in the tree trim computer data base system utilized by tree trim contractors. (This data base also tracks the date of each tree trim, type of tree, where threatening dogs reside, etc.). The Environmental Surveyor should be contacted to perform a preactivity survey when trimming is planned in environmentally sensitive areas. Whenever possible, trees in environmentally sensitive areas (determined by CDFG and SDG&E) will be scheduled for trimming in the non-sensitive times.

33. No new Facilities and Activities shall be planned which disturb vernal pools, their watersheds, or impact their natural regeneration. Continued historic maintenance of existing infrastructure utilizing existing access roads is allowed to continue in areas containing vernal pool habitat. New construction of overhead infrastructure which spans vernal pool habitats is allowed as long as the placement of facilities or the associated construction activities in no way impact the vernal pools.

34. If any previously unidentified dens, burrows, or plants are located on any project site after the preactivity survey, the Environmental Surveyor shall be contacted. Environmental Surveyor will determine how to best avoid or minimize impacting the resource by considering such methods as project or work plan redevelopment, equipment placement or construction method modification, seasonal/time of day limitations, etc...

35. The Environmental Surveyor shall conduct monitoring as recommended in the preactivity survey report. At completion of work, the Environmental Surveyor shall check to verify compliance, including observing that flagged areas have been avoided and that reclamation has been properly implemented. Also at completion of work, the Environmental Surveyor is responsible for removing all habitat flagging from the construction site.

36. The Environmental Surveyor shall conduct checks on mowing procedures, to ensure that mowing is limited to a 12-foot wide area on straight portions of the road (slightly wider on radius turns), and that the mowing height is no less than 4 inches.

37. Supplies or equipment where wildlife could hide (e.g., pipes, culverts, pole holes) shall be inspected prior to moving or working on them to reduce the potential for injury to wildlife. Supplies or equipment that cannot be inspected or from which animals could not be removed shall be capped or otherwise covered at the end of each work day. Old piping or other supplies that have been left open, shall not be capped until inspected and any species found in it allowed to escape. Ramping shall be provided in open trenches when necessary. If an animal is found entrapped in supplies or equipment, such as a pipe section, the supplies or equipment shall be avoided and the animal(s) left to leave on its own accord, except as otherwise authorized by CDFG.

38. All steep-walled trenches or excavations used during construction shall be inspected twice daily (early morning and evening) to protect against wildlife entrapment. If wildlife are located in the trench or excavation, the Environmental Surveyor shall be called immediately to remove them if they cannot escape unimpeded.

39. Large amounts of fugitive dust could interfere with photosynthesis. Fugitive dust created during clearing, grading, earth-moving, excavation or other construction activities will be controlled by regular watering. At all times, fugitive dust emissions will be controlled by limiting on-site vehicle speed to 15 miles per hour.

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40. Before using pesticides in areas where burrowing owls may be found, a pre-activity survey will be conducted.

7.1.5 Maintenance of access roads shall consist of:

41. Repair of erosion by grading, addition of fill, and compacting. In each case of repair, the total area of disturbance shall be minimized by careful access and use of appropriately sized equipment. Repairs shall be done after preactivity surveys conducted by the Environmental Surveyor and in accordance with the recommendations regarding construction monitoring and relevant protocols. Consideration should be given to source of erosion problem, when source is within control of SDG&E.

42. Vegetation control through grading should be used only where the vegetation obscures the inspection of facilities, access may be entirely lost, or the threat of Facility failure or fire hazard exists. The graded access road area should not exceed 12'-wide on straight portions (radius turns may be slightly wider) (See Figure 23).

43. Mowing habitat can be an effective method for protecting the vegetative understory while at the same time creating access to a work area. Mowing should be used when permanent access is not required since, with time, total revegetation is expected. If mowing is in response to a permanent access need, but the alternative of grading is undesirable because of downstream siltation potential, it should be recognized that periodic mowing will be necessary to maintain permanent access.

44. Maintenance work on access roads should not expand the existing road bed (See Figure 23).

45. Material for filling in road ruts should never be obtained from the sides of the road which contain habitat without approval from Environmental Surveyor..

7.1.6 Construction of new access roads shall comply with the following:

46. SDG&E access roads will be designed and constructed according to the SDG&E *Guide for Encroachment on Transmission Rights-of-Way (4/91).*

47. Access roads will be made available to managers of the regional preserve system subject to coordination with SDG&E.

48. New access roads shall be designed to be placed in previously disturbed areas and areas which require the least amount of grading in sensitive areas during construction whenever possible (See Figure 5). Preference shall be given to the use of stub roads rather than linking facilities tangentially.

49. SDG&E will consider providing access control on access roads leading into the regional preserve system where such control provides benefit to sensitive resources.

50. New access road construction is allowed year round. Every effort shall be made to avoid constructing roads during the nesting season. During the nesting season, the presence or absence of nesting species shall be determined by a biologist and appropriate avoidance and minimization recommendations followed.

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7.1.7 Construction and Maintenance of Access Roads Through Streambeds

51. Construction of new access roads through streambeds requires a Streambed Alteration Agreement from CDFG and/or consultation with the Army Corps of Engineers.

52. Maintenance or construction vehicle access through shallow creeks or streams is allowed. However, no filling for access purposes in waterways is allowed without the installation of appropriately sized culverts. The use of geotextile matting should be considered when it would protect wetland species.

53. Staging/storage areas for equipment and materials shall be located outside of riparian areas. (See Figure 23).

7.1.8 Survey Work

54. Brush clearing for foot paths or line-of-sight cutting is not allowed from March through August in sensitive habitats without prior approval from the Environmental Surveyor, who will ensure that activity does not adversely affect a sensitive species.

55. SDG&E survey personnel must keep vehicles on existing access roads. No clearing of brush for panel point placement is allowed from March through August without prior approval from the Environmental Surveyor.

56. Hiking off roads or paths for survey data collection is allowed year round so long as other protocols are met.

7.1.9 Emergency Repairs

57. During a system emergency, unnecessary carelessness which results in environmental damage is prohibited.

58. Emergency repair of facilities is required in situations which potentially or immediately threaten the integrity of the SDG&E system, such as pipe leaks, or downed lines, slumps, slides, major subsidence, etc. During emergency repairs the Operational Protocols contained in this Subregional Plan shall continued to be followed to fullest extent possible.

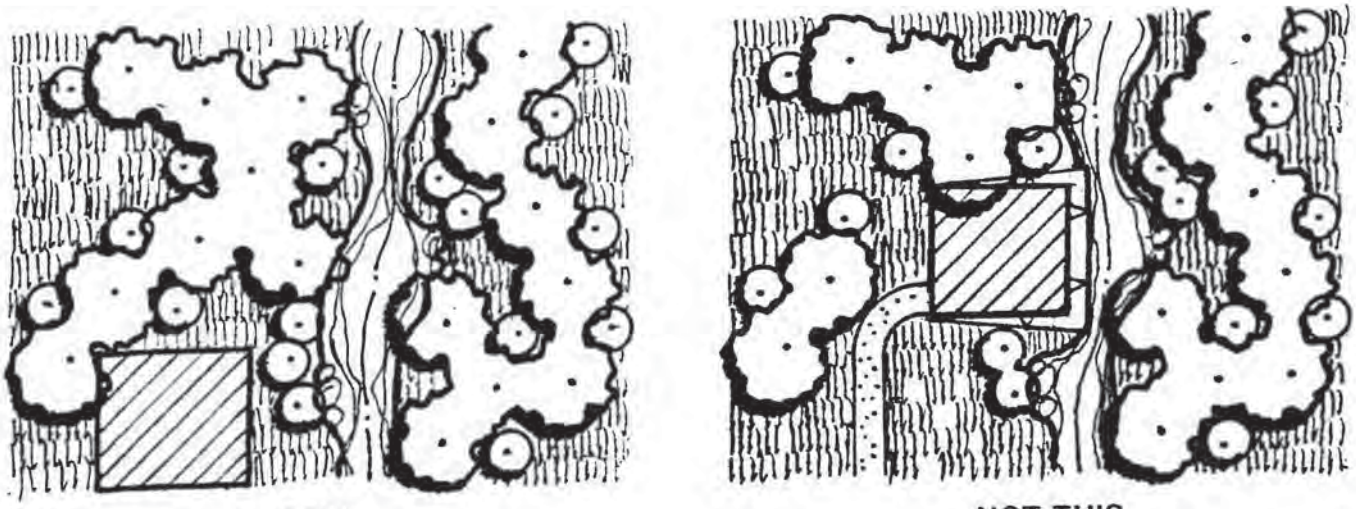
59. Once the emergency has stabilized, any unavoidable environmental damage will be reported to the Environmental Surveyor by the foreman. The Environmental Surveyor will develop a mitigation plan and ensure its implementation is consistent with this Subregional Plan.

7.1.10 Activities of Underlying Fee Owners

60. Most SDG&E rights-of-way are held in easement only. The activities of underlying fee owners cannot be controlled by SDG&E and are not covered by this Subregional Plan.

61. When sensitive habitat exists on either side of a utility right-of-way, SDG&E will not oppose underlying fee owners dedicating said property to conservation purposes. Underlying fee owners are expected to comply with applicable federal, state, and local regulations.

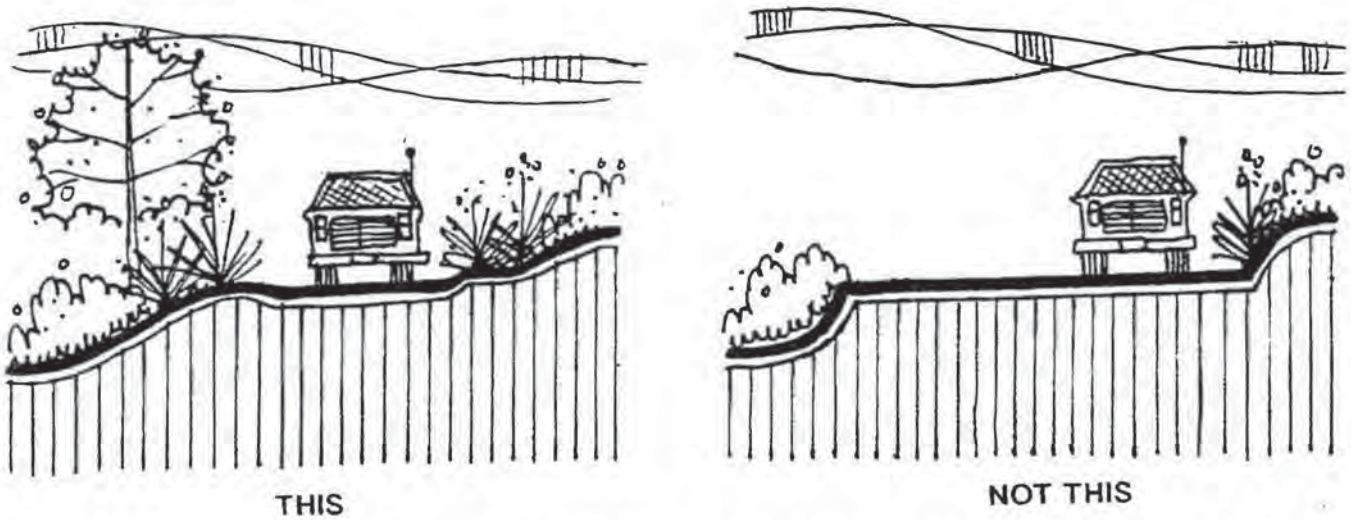
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NOT THIS

CONSTRUCTION STAGING/STORAGE AREAS SHOULD BE LOCATED OUTSIDE OF STREAMS



THIS

NOT THIS

ACCESS ROAD MAINTENANCE SHOULD NOT EXPAND THE EXISTING ROAD BED

FIGURE

23

Operational Protocol Diagrams

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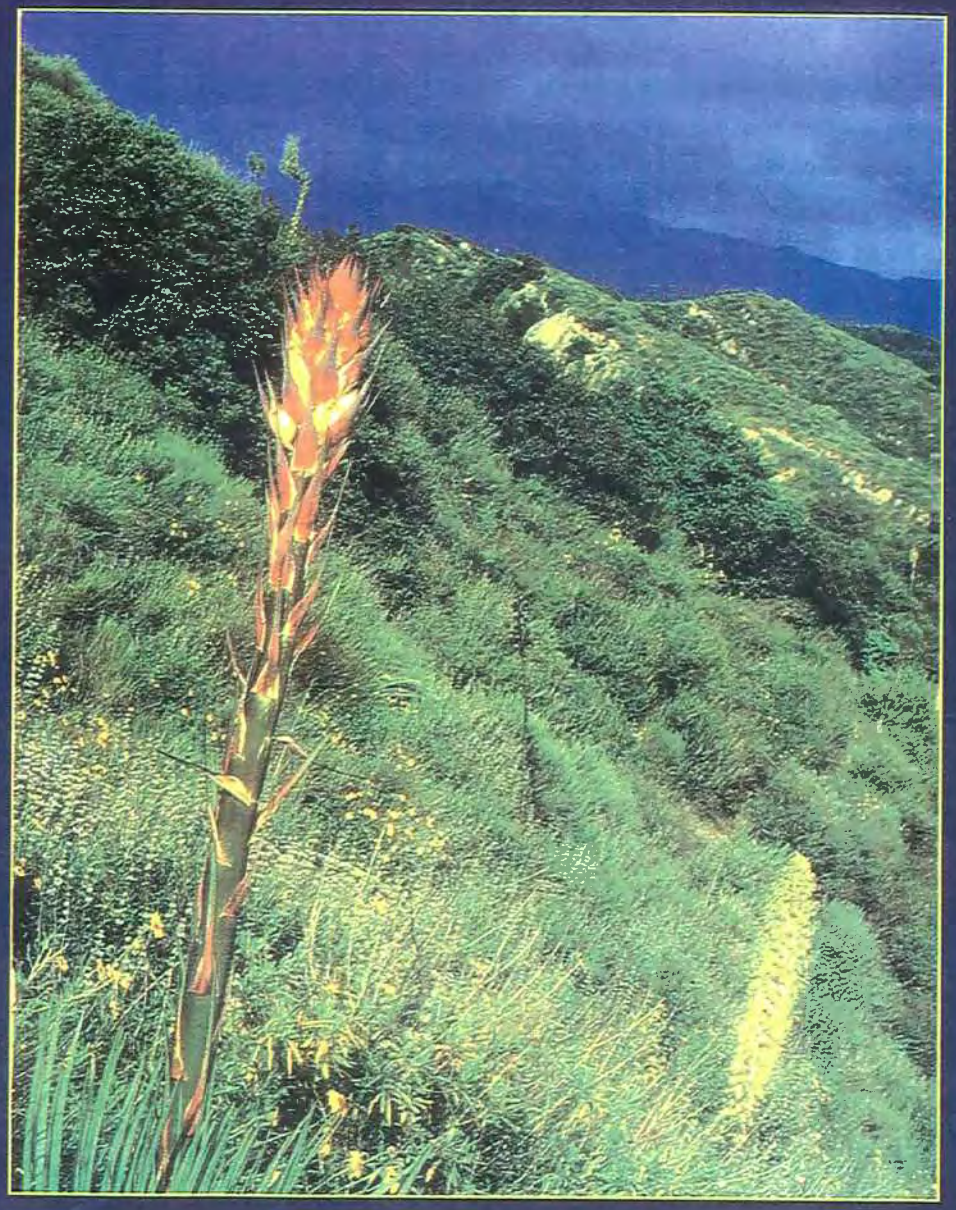
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Subregional Natural Community Conservation Plan



REAL ESTATE OPERATIONS NATURAL RESOURCE GROUP



San Diego Gas & Electric Company

Subregional Natural Community Conservation Plan

Prepared By:
San Diego Gas & Electric
Real Estate Operations Department
Last Edited: December 15, 1995

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Subregional Natural Community Conservation Plan

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SDG&E San Diego Gas & Electric
P.O. BOX 1831 • SAN DIEGO, CA 92112-4150 • 619 / 696-2000

October 1995

FILE NO.

TO: READERS OF THIS DOCUMENT

There are many things that make San Diego a unique and desirable place to live: the weather, the topography, its proximity to Mexico, the beaches, the ocean, and its diverse environmental resources. Each of these things contribute to a quality of life that draws people to this region. SDG&E shares the belief with many San Diegans that growth should not result in destruction of the very qualities that make this community a desirable place to live. SDG&E also believes that our quality of life can be preserved while still providing opportunities for economic growth.

In recent years, protection of this region's environmental quality has become a major planning issue stimulating ballot initiatives, open space/preservation plans, and protective species "listings" under the State and Federal Endangered Species Acts. It has become apparent that environmental protection is a major public concern and will be with us for some time. SDG&E has recognized the importance of Environmental Protection and Enhancement by weighing it equally in our Corporate Goals to Quality Customer Service. The Company is standing behind our Environmental Protection and Enhancement goal by changing our maintenance and construction methods, by participating directly on all of the NCCP plans in the region, by making financial contributions to said plans, and by preparing this Subregional Plan that not only provides up front mitigation for future activities, but also allows the use of SDG&E's network of rights-of-way and other lands for conservation and preservation.

The primary purpose and ultimate objective of this Subregional Plan is not just to reduce regulatory hurdles, but to make a positive contribution toward the preservation and enhancement of San Diego's natural resources. This plan should be reviewed and evaluated by you, the reader, with that stated purpose and objective in mind. We, at the Company, feel that this Subregional Plan can fulfill our environmental objectives and still be good for business.

Sincerely,
San Diego Gas & Electric

Don L. Rose
Project Manager
Real Estate Management and Planning Section

EXECUTIVE SUMMARY

Background

With the proposed listing of the California Gnatcatcher, as a threatened species, the Endangered Species Act (ESA) suddenly became a significant constraint to all forms of development in southern California including the development of energy infrastructure. The State responded by using the recently legislated Natural Community Conservation Planning (NCCP) program as a tool to work with local communities to develop habitat conservation strategies to protect a wide variety of plants and animals which included the Gnatcatcher's coastal sage scrub habitat. One of the goals of the NCCP is to eliminate the need for future listings. The NCCP also allows for localized administration of the federal ESA and the California ESA (CESA) if certain steps are followed including the preparation of habitat conservation plans pursuant to the ESA and the NCCP.

San Diego Gas & Electric (SDG&E) saw the potential benefits offered by the NCCP to the region's resources and to the Company's ability to reduce regulatory processes typically involved with the maintenance and expansion of a gas and electric energy system. Therefore, the Company launched into preparation of its subregional habitat conservation plan also known as the 50-Year Permit. When approved, the Plan will provide for 25 years of ESA & CESA approvals with renewals to 50 years and possibly beyond.

Provision of the Plan

The Plan covers the following activities, as well as, estimates and defines the mitigation which may be required for the biological impacts of the installation, use, maintenance, and repair of the existing gas and electric system and typical expansions to that system. These activities are required to provide adequate, reliable, and safe service to existing customers and to meet the demands of new growth. The Plan does not cover extraordinary expansions to SDG&E's gas and electric system. The Plan also covers biological impacts (within the boundaries of the Plan area only), associated with new electric transmission lines including interconnections that do not project more that 30 miles outside of SDG&E's service territory, Rainbow to Santee natural gas transmission pipeline, new gas transmission lines under 30" in diameter and less than 20 miles in length, new substations and regulator stations with habitat impacts under 20 acres, and new natural gas compressor stations with habitat impacts under 10 acres. Projects not covered by the Plan will be evaluated on a case-by-case basis, but will be evaluated by the standards set forth in this plan.

Since the future cannot be accurately predicted, the Plan allows for up to 400 acres of impacts in natural areas before requiring a Plan amendment. However, based on current technology, construction methods and standards, population forecasts, and local agency General Plans, the Plan anticipates only 124 acres of grading impacts in natural areas as a result of typical expansion and maintenance activities over the next 25 years (areas which are "natural" are not paved and do

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not contain ornamental landscaping or otherwise urbanized uses). Impacted areas may be home to one or more of the 110 species covered by this Plan. To mitigate these impacts, the Plan provides the following forms of mitigation:

- The most important mitigation measure is avoidance of impacts whenever possible. To accomplish this, new Operational Protocols for working in the field were developed. There are 61 protocols, all listed in Chapter 7 of the Plan. In addition, field crews attend a series of on-going classes on how to behave and operate construction and maintenance equipment in environmentally sensitive areas.

- Certain fee-owned rights-of-way will be available for use as wildlife corridors in order to connect the region's conservation areas. SDG&E will also allow the use of certain rights-of-way held in easements for such corridors with the consent of the underlying land owner.

- Mitigation Credits of approximately 240 acres will be established upon commencement of the Subregional Plan. The bank will be debited to mitigate for actual impacts as projects are realized. The wildlife agencies will determine the extent and quality of any impact. If needed, the Mitigation Credits will be replenished.

- Restoration and enhancement are also available as mitigation measures, sometimes instead of debits to the Mitigation Credits, and other times in addition to such debits. Restoration will be used in some cases regardless of other forms of mitigation.

The benefits to SDG&E are that the permit processing typically required by the ESA & CESA will not be required. However, the wildlife agencies will still monitor projects, evaluate impacts, and prescribe mitigation in a much more time-efficient process. The Plan sets up a framework for the wildlife agencies to fulfill their regulatory responsibilities in an efficient manner and provides SDG&E with certainty over required mitigation.

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Purpose of this Agreement is to Clarify the Vernal Pool Mitigation Measures of the Subregional Plan

SDG&E Subregional Plan – Clarification Document

1. Add to existing page vii of **Executive Summary**, before the section entitled Not Provided For:

A. In 2004, SDG&E amended its NCCP/HCP, which was originally approved in 1995, to incorporate minor modifications reflecting the Company's evolving approaches to resource management policy changes and the Company's many years of experience implementing the plan and permit. These changes are summarized as follows:

SDG&E and the Wildlife Agencies have developed a "vernal pool clarification" for provisions of the NCCP/HCP which provides a basis for SDG&E to carry out a range of utility activities without delay or disruption. This protocol addresses vernal pool resources located both on and off SDG&E access roads and establishes clear standards for avoidance, minimization, and mitigation of permanent and temporary impacts. As a result of these protocols, SDG&E and the Wildlife Agencies anticipate that SDG&E operations and maintenance activities, and the use of existing access roads associated with system expansion, development of new projects, and emergency repairs can be undertaken without the need for case-by-case analysis by, or negotiations with, the Service and/or the Department.

DEFINITIONS

Vernal Pool: A Vernal Pool is defined herein as consisting of both (1) the vernal pool basin, or ponding area, which provides the maximum area of ponded water (i.e., the inundation area when the pool is full), plus (2) the vernal pool watershed, which is the area surrounding the basin that provides sufficient hydrology to allow complete filling of the vernal pool basin in an average rainfall year.

Vernal Pool Basin (Ponding Area): The maximum area of vernal pool inundation, extending to and including the uppermost margins of the pool area that holds water when a pool is full (i.e., the ponding area itself exclusive of the surrounding watershed).

Vernal Pool Watershed: The area surrounding a vernal pool basin that provides sufficient hydrology, including adequate surface area and micro-topography, to enable complete filling of a vernal pool basin in an average rainfall year.

Vernal Pool Management Plan: A plan that provides a practical framework with specific management measures for restoring, enhancing, protecting, and maintaining vernal pool

resources. The management plan shall include goals/objectives; methodology; success criteria and standards, including the control of invasive species which could threaten long-term persistence of the vernal pools; timelines; a minimum five year monitoring component (not to exceed seven years with at least one year in which the pool completely fills) to document the stability of populations and judge the success of restoration actions and the effectiveness of management practices; and a process and funding mechanism for managing adaptively, and in perpetuity, vernal pool habitat.

KEY ELEMENTS

The protocol set forth in this clarification document reinforces SDG&E's commitment to avoid permanent impacts to all vernal pools during construction of new facilities and confirms the assurance of the Wildlife Agencies that impacts to on – and off-road vernal pools associated with SDG&E operations and maintenance activities will be authorized. Furthermore, the Wildlife Agencies deem that the mitigation measures described in this protocol are consistent with the Subregional Plan.

- Under the SDG&E Subregional Plan impacts to vernal pools will be avoided during construction of new facilities, and new access roads, throughout the area covered by the Plan. Impacts to vernal pools related to other covered activities are authorized, including operations and maintenance activities occurring within and outside the footprint of existing access roads; use of existing access roads to support system expansion; and emergency repairs. In such cases, SDG&E will:

  1. Avoid impacts to the maximum extent practicable, including rerouting existing access roads when feasible.
  2. If avoidance of all impacts to vernal pools is not practicable, SDG&E will minimize impacts by implementing the measures described in this Clarification Document (Section 7.1.11).

- During operations and maintenance activities occurring outside the footprint of existing access roads, permanent and temporary impacts may occur. Permanent and temporary impacts to those vernal pools will be minimized and mitigated.

- Vernal pool surveys to determine if covered species are present or absent will not be conducted. During operations and maintenance activities occurring within and outside the footprint of existing access roads, permanent impacts will be mitigated at a 3:1 ratio. At SDG&E's discretion, some access roads containing road rut vernal pools will be graded on an as needed basis; other roads will be maintained on a regularly scheduled basis.

- Mitigation may be satisfied through either on-site restoration of vernal pools or the use of areas pre-approved by the Wildlife Agencies. Mitigation credits, as approved by the Wildlife Agencies, may be accumulated and used through advance creation, restoration, and enhancement of vernal pool basin area. The areas pre-approved by the Wildlife Agencies for creation, restoration, and/or enhancement of vernal pool basin area will be of high quality (e.g., Carmel Mesa and Otay Mesa) and will support species covered by the Plan. Pre-approved vernal pool mitigation areas must be managed and monitored pursuant to a Management Plan approved by the Wildlife Agencies.

2. Add the words "VERNAL POOLS" to the descriptive text in the bottom sketch in Figure 4. Add new drawings to Figure 4 that assist SDG&E in avoiding impacts to the pools. *SDG&E to provide.*

IX. Vernal Pools

This vernal pool protocol reinforces SDG&E's commitment to avoid permanent impacts to all vernal pools during construction of new facilities and new access roads, and confirms the assurance by the Wildlife Agencies that impacts to all vernal pools associated with SDG&E operations and maintenance activities are authorized under the Subregional Plan. Furthermore, the Wildlife Agencies deem that the mitigation measures described in this protocol are consistent with the Subregional Plan.

SDG&E intends to avoid impacts to vernal pools during new construction. During operations and maintenance activities occurring outside the footprint of existing access roads, permanent and temporary impacts may occur provided that they are mitigated consistent with this clarification document. Temporary and permanent impacts will be minimized. During operations and maintenance activities occurring within existing access roads, which may include grading and/or crowning of those roads, permanent impacts may occur. At SDG&E's discretion, some access roads containing vernal pools will be graded on an as needed basis; other roads will be maintained on a regularly scheduled basis.

Other than pre-activity surveys, no vernal pool surveys will be conducted to determine presence or absence of covered species. Mitigation for permanent impacts will be fixed at a 3:1 ratio for all impacts.

When required, mitigation may be satisfied through either on-site restoration of vernal pools or the use of areas pre-approved by the Wildlife Agencies. Mitigation credits, as approved by the Wildlife Agencies, may be accumulated and used through advance creation, restoration, and enhancement of vernal pool basin area. The areas pre-approved by the Wildlife Agencies for creation, restoration, and/or enhancement of vernal pool basin area will be of high quality (e.g., Carmel Mesa and Otay Mesa) and will support

species covered by the Plan. Pre-approved vernal pool mitigation areas must be managed and monitored pursuant to a Management Plan approved by the Wildlife Agencies.

In the event that SDG&E Activities impact vernal pools, the following mitigation measures will be implemented:

Temporary Impacts

Off Road

SDG&E Activities, such as but not limited to, placement of structures, insetting poles, poles anchors and stubs, and underground facility access may have temporary impacts on off road vernal pools (Chapter 2, Proposed Activities, provides a complete list of SDG&E Activities). In those cases, SDG&E will restore those pools pursuant to the following protocols:

1. Seed from vernal pool indicator plants shall be collected from the pools that will be impacted when the plants have dried and before the seed disperses, and scattered in the affected vernal pool when the SDG&E Activity is completed. Seed collection may not be possible when precluded by weather or physical constraints, such as the Activity occurring at a time of year when no seed is present. If SDG&E needs to work in vernal pool areas under wet conditions, vehicular and foot traffic will be directed away from the pools. If vehicular and foot traffic cannot be directed away from the pools due to construction requirements, other impact minimization measures shall be used, such as the installation of steel plates or fabric mats. A qualified biologist will be present to ensure that all minimization measures are implemented.

2. Vernal pool *inoculum* shall be collected only when it is dry to avoid damaging or destroying fairy shrimp cysts. A hand trowel or similar instrument should be used to collect the sediment. Soil should be collected in chunks. Once the Activity is completed, the sediment will be replaced in the bottom of the disturbed pool.

3. If seed has been scattered and/or *inoculum* sediment has been replaced, a qualified biologist will monitor the vernal pool for successful restoration, for two subsequent wet seasons. Successful restoration will be determined/defined as the continued presence of vernal pool species (or threatened/endangered species if present) roughly comparable to the pre-disturbance condition. Furthermore, covered species identified in the pre-activity survey must be observed to fully mature, with fairy shrimp producing cysts and plant species producing seed. Unsuccessful restoration will be considered a permanent impact and will be mitigated at a 3:1 ratio at a pre-approved vernal pool mitigation area. If measures 1 and 2 above cannot be implemented, mitigation will occur at the pre-approved vernal pool mitigation area at a 3:1 ratio.

Within Road

During new construction activities, if vehicular traffic cannot be directed away from vernal pools due to construction requirements, impact minimization measures shall be used, such as the installation of steel plates or fabric mats. A qualified biologist will be present to ensure that all minimization measures are implemented.

Permanent Impacts

SDG&E Activities, such as, but not limited to road maintenance may have unavoidable permanent impacts on vernal pools (Chapter 2, Proposed Activities, provides a complete list of SDG&E Activities). To mitigate for those impacts, SDG&E will undertake the following measures:

1. Restoration Reporting[1] - If SDG&E does not mitigate at a pre-approved vernal pool restoration area, then Wildlife Agencies' concurrence on an acceptable mitigation site is required prior to any impacts to vernal pools. Recognizing that restoration efforts may vary somewhat, SDG&E shall prepare a vernal pool restoration plan for each Activity based on a generalized approach for vernal pool restoration, with which the Wildlife Agencies have previously concurred (Refer to Attachment 1). If further refinements to this generalized approach are necessary on a case-by-case basis, the Wildlife Agencies will respond to the restoration plan within 30 days. If the Wildlife Agencies do not comment within 30 days, SDG&E will proceed with its proposed Activities.

2. Mitigation Ratio – Impacts to vernal pools, with or without Covered Species present, will be mitigated at a 3:1 ratio for all impacts. Mitigation may occur onsite provided that a sufficient number of degraded pools exist in the vicinity and have been approved by the Wildlife Agencies for restoration and /or enhancement. Otherwise, mitigation will be implemented offsite at the pre-approved vernal pool restoration area. Mitigation credits, as approved by the Wildlife Agencies, may be accumulated and used through advance creation, restoration, and enhancement of vernal pool basin area. The areas pre-approved by the Wildlife Agencies for creation, restoration, and/or enhancement of vernal pool basin area will be of high quality (e.g., Carmel Mesa and Otay Mesa) and will support species covered by the Plan. Pre-approved vernal pool mitigation areas must be managed and monitored pursuant to a Management Plan approved by the Wildlife Agencies.

SDG&E may relocate an existing access road to minimize potential impacts to vernal pools. This rerouting would only be done if it was possible without compromising operational integrity and safety. The mitigation value of the rerouted road would be at

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[1] Restoration of degraded vernal pools on a pre-approved restoration area is considered appropriate as mitigation for permanent impacts. Steps will be implemented to ensure that hydrologic function is not significantly impaired.

1:1 level.[2] Under such circumstances, the mitigation requirement for impacts to vernal pools, with or without Covered Species present, will be the net of the total new impacts to vernal pools or pool complexes less the vernal pools or complexes being avoided within the existing roadway. The net impact will be mitigated at the pre-approved vernal pool mitigation area at a 2:1 ratio at least 1:1 ratio of which is creation.

Impacts to vernal pools with or without Covered Species present that occur on military lands will be mitigated at a pre-approved vernal pool mitigation area at a 3:1 ratio.

Monitoring and Reporting

Restoration of temporary impacts to vernal pools shall be accomplished by a qualified ecologist/biologist and managed (including monitoring) for two subsequent wet seasons.

Restoration for permanent impacts to vernal pools shall be accomplished by a qualified ecologist/biologist and managed and monitored for a minimum of five years, but not to exceed seven years with at least one year in which the pool completely fills.

SDG&E's Subregional Plan Annual Report will include a vernal pool section that tracks and reports the amount and type (temporary or permanent) of impacts to vernal pools, and reports the status of restoration/enhancement efforts.

4. Add new Avoidance and Minimization protocols to Chapter 7.1 as a new Section 7.1.11 Vernal Pool Complexes:

Avoidance and Minimization Measures:

62. SDG&E will avoid permanent impacts to vernal pools in the construction of all new Facilities, including new access roads, throughout the area covered by this Plan.

63. If the Wildlife Agencies recommend relocation of an access road that bisects a vernal pool area, SDG&E will take into account cost and operational considerations and determine within 30 days whether to relocate the road. When roads are relocated to avoid vernal pools, the realigned road will be clearly demarcated and barriers will be placed to prevent vehicle access on the old road.

64. For all construction activities occurring adjacent to vernal pools, SDG&E will work with a qualified biologist having local experience with vernal pool resources, to site roads or facilities in a manner that avoids potential impacts to vernal pools. (See Figure 4.) All vernal pools adjacent to the project footprint, plus a five-foot buffer (where feasible), will be fenced with orange safety fencing to ensure no people or equipment impact the vernal pools during construction activities. A silt fence will be installed along the base of the roadway to prevent

[2] This language is consistent with and replaces paragraph 2 of Article IX Vernal Pools of the Subregional Plan.

increased erosion or sedimentation during construction in vernal pool areas. Gravel bags will be placed along the bottom of the fence to minimize erosion or sedimentation into vernal pools, and removed upon completion of construction.

65. During operations and maintenance activities occurring within the footprint of existing access roads, which may include grading and/or crowning of those roads, permanent impacts to vernal pools may occur. To prevent water from ponding on existing access roads, SDG&E will grade and crown roads using a grader. Other mechanisms may be employed that achieve the same result. Thereafter, the roads will be maintained on a regular basis as determined by SDG&E, to prevent future ponding, thereby minimizing native plant and animal species from becoming established. Roads in vernal pool complex areas within MCAS Miramar and the Torrey Hills, Otay Mesa, Carmel Mesa, Del Mar Mesa, and Tierrasanta communities in the City of San Diego may be less frequently graded to preserve habitat value, but will be graded as needed to preserve safe and reliable access to SDG&E facilities.

66. During modifications and maintenance of existing access roads, or the creation of new access roads adjacent to vernal pools, a qualified biological monitor, having local experience with vernal pool resources, shall oversee and monitor all such activities occurring adjacent to vernal pools. The biological monitor shall:

    - Hold a pre-construction meeting to brief the crew on the location of sensitive resources and construction boundaries.
    - Direct installation of protective fencing to prevent encroachment of people or equipment into vernal pools during construction activities and to ensure that no fence posts are placed within vernal pools.
    - If it is not feasible to place protective fencing without impacting vernal pools, during the dry season sandbags will be placed along the perimeter of the vernal pool and removed post-construction (or prior to the on-set of the wet season).

    An environmental surveyor will ensure that fencing to protect vernal pools is appropriately placed and is maintained in good condition for the duration of the project. (See Figure 4.)

67. When vernal pools are located above gas lines and repair work is necessary, work areas will be minimized and soil will be stockpiled for replacement after repairs.

68. During construction of new facilities, including access roads adjacent to vernal pools, a biological monitor will document all accidental or unanticipated impacts to vernal pools. The impacts will be provided to the Wildlife Agencies in a post-construction report with 30 days of project completion.

69. To the extent feasible, all construction equipment shall be fueled and maintained at least 100 feet from the nearest vernal pools.

SDG&E NCCP/HCP SUBREGIONAL PLAN

VERNAL POOL CLARIFICATION

This signature page is attached to the Final Vernal Pool Clarification document to identify that the Vernal Pool Clarification approved on May 26, 2004 by the United States Fish & Wildlife Service and California Department of Fish and Game shall be applied to SDG&E projects that have the potential to impact vernal pools within the Subregional Plan Area.

Date 7/26/04
Therese O'Rourke, Assistant Field Supervisor
U.S. Fish & Wildlife Service
Carlsbad Fish & Wildlife Office

Date 7/23/04
Gail Presley, Conservation Planning Program Manager
California Department of Fish and Game

Date 7/21/2004
Donald E. Haines
SDG&E
Manager, Land Planning & Natural Resources

Not Provided For

Projects which are currently subject to permits from the California Public Utility Commission (CPUC), Coastal Commission, Energy Commission, State Lands Commission and several other state and federal agencies will continue to be. Therefore, many projects will be subject to the California Environmental Quality Act & National Environmental Policy Act reviews. It is intended that the subsequent environmental reviews use this Plan to evaluate the impacts to covered species and their habitats.

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1 Introduction

San Diego Gas & Electric Company (SDG&E) is a California public utility providing natural gas, electric, and other services to customers within its service territory, which includes San Diego County and portions of Orange and Riverside Counties. SDG&E's ability to provide these services depends upon the installation, operation, maintenance and repair of an evolving array of public utility facilities located throughout its service territory and, to a limited extent, beyond. For example, SDG&E's electric and natural gas service is provided by means of two essentially separate systems. The electric system includes steam electric generating plants, electric transmission lines, electric substations, and an electric distribution network (See Figure 1). The natural gas system includes compressor stations, transmission pipelines, regulator stations and distribution pipelines (See Figure 2). Regular maintenance and repair of these systems is performed to prolong their useful life and to ensure adequate, safe, and reliable service. The location and type of new Facilities is dependent upon the service demands of SDG&E's customers load centers while existing Facilities are not. However, both are subject to the regulatory authority and requirements of the California Public Utilities Commission (CPUC), the California Energy Commission (CEC), and various other federal and state agencies.

Over the past several years, the natural lands and wildlife habitats in San Diego County, Orange County, and Riverside County (Moreno Compressor Station only), have been subjected to increasing pressures from various land development activities. The Natural Community Conservation Planning Act (NCCP), authorizing comprehensive management and conservation of habitat and multiple wildlife species, is California's response to the ever increasing numbers of species protected and being considered for protection under the state and federal endangered species acts. In recognizing the need to develop a comprehensive management plan for the sensitive biological resources of the region, agency wildlife biologists, consulting and research biologists, landowners,

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businesses, and representatives of conservation groups have proposed a conservation strategy which includes the establishment of a habitat preserve system intended to ensure long-term habitat survival and individual species viability.

SDG&E's Activities may impact certain sensitive plant and animal species or their habitat which may include species listed as threatened or endangered by the United States Endangered Species Act (ESA) or the California Endangered Species Act (CESA). To ensure implementation of appropriate avoidance, minimization, or mitigation measures for these potential impacts, SDG&E has prepared this Subregional Plan following the multiple species and habitat conservation planning approach authorized by ESA and the California NCCP. The intent of this Subregional Plan is to identify SDG&E's existing and prospective Activities as a public utility which may have an impact upon Covered Species or their habitat and to define those measures SDG&E will employ to avoid, minimize or mitigate any such impacts. SDG&E's plan is a significant part of the overall regional conservation planning strategy for two reasons: 1) It will provide a net improvement in habitat values by providing foundational resources for the establishment of connecting corridors between habitat preserves; and 2) It can be used for other regional public service providers as a model.

Over the last several years, a number of local governments have been working to develop comprehensive habitat and multi-species conservation plans within the boundaries of their respective jurisdictions, generally referred to as "Habitat Conservation Plans." Ultimately, a network of such plans will be implemented throughout much of the area which is or which may be affected by SDG&E's operations and covered by SDG&E's Subregional Plan (See Figure 3). Both SDG&E's Subregional Plan and the Habitat Conservation Plans will maximize the protection and conservation of wildlife and habitat by utilizing the comprehensive multi-species and habitat conservation approach. However, unlike the Subregional Plan, Habitat Conservation Plans otherwise address the unique municipal concerns of local government: local government's interest in local land development and other land use activities with federal and state wildlife conservation mandates.

In contrast, SDG&E's public utility operations and service span the jurisdictional boundaries of a large number of local governments and provide benefits to the State as a whole. SDG&E's operations as a public utility are, therefore, matters of statewide concern. To ensure uniform, adequate, safe, and reliable operations for the benefit of the State's citizens, SDG&E's operations are regulated at the state level primarily by the CPUC but also by various other state agencies, rather than at the local level. Accordingly, this Subregional Plan balances SDG&E's Activities necessary to meet the continuing and growing demands of its customers for electric and gas service with federal and state wildlife conservation mandates.

The applicability of Habitat Conservation Plans will be triggered by local permit applications filed by persons seeking to pursue projects falling within the regulatory authority of such local governments. However, because SDG&E's projects do not fall within the regulatory authority of local governments, none of the underlying Habitat Conservation Plans will be suitable to address the particular and unique issues raised by

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public utilities. SDG&E has resolved this problem by developing this Subregional Plan in coordination with the United States Fish and Wildlife Service (USFWS) and California Department of Fish & Game (CDFG) addressing SDG&E's activities and their potential impact upon Covered Species or their habitat throughout the area of its operations.

This Subregional Plan will cover all of SDG&E's Activities conducted within the area described in Figure 3 (Subregional Plan Area), and will function independently of the Habitat Conservation Plans of local governments, which may also cover any part of the Subregional Plan Area. This Subregional Plan takes into consideration the objectives of such local Habitat Conservation Plans and coordinates the implementation of this Subregional Plan with the proper functioning of such local Habitat Conservation Plans, as they become effective, to maximize the benefits to Covered Species and their habitat. This Subregional Plan will describe SDG&E's Activities that have the potential to impact Covered Species or their habitat and which will be subject to the provisions of this Subregional Plan. The nature and extent of such potential impacts will be identified together with those protective and conservation measures SDG&E will undertake to avoid such impacts and, where impacts are unavoidable, to minimize and mitigate the same. Protective and conservation measures will include (a) the implementation of Operational Protocols established in coordination with USFWS and CDFG, (b) assisting USFWS and CDFG to establish wildlife corridors which interconnect one habitat preserve or wildlife conservation area to another utilizing certain rights-of-way, and (c) by causing the conveyance of valuable habitat land to a wildlife management agency for conservation purposes.

SDG&E, USFWS, and CDFG have, concurrent with the effective date of this Subregional Plan, entered into a long term Implementing Agreement which describes the legal rights and obligations of such parties regarding the implementation and maintenance of this Subregional Plan. The Implementing Agreement authorizes SDG&E to conduct its Activities within the Subregional Plan Area provided the same are performed in conformity with this Subregional Plan. Such authorizations are memorialized in permits issued by USFWS and CDFG, pursuant to ESA, CESA and NCCP. Such permits authorize SDG&E Activities and any resulting Incidental Take of Covered Species or impact to their habitat. The Subregional Plan and the Implementing Agreement can be amended to permit the addition of areas within which SDG&E conducts its operations and which are not yet covered by the Subregional Plan, such as the desert regions. Finally, the Implementing Agreement will provide assurances by USFWS and CDFG that, absent Unforeseen Circumstances, the terms and conditions of SDG&E's Activities authorization and Permits including, but not limited to, the required mitigation measures, will not change during the term of the Implementing Agreement. The long term duration and constancy of the Implementing Agreement and, therefore, of this Subregional Plan benefit SDG&E both by streamlining the permit process, enabling the early and efficient planning of avoidance and mitigation measures in project design, and by implementing a more cost-effective approach to wildlife conservation. Covered Species and their habitat will derive long term benefits from the implementation of the Subregional Plan.

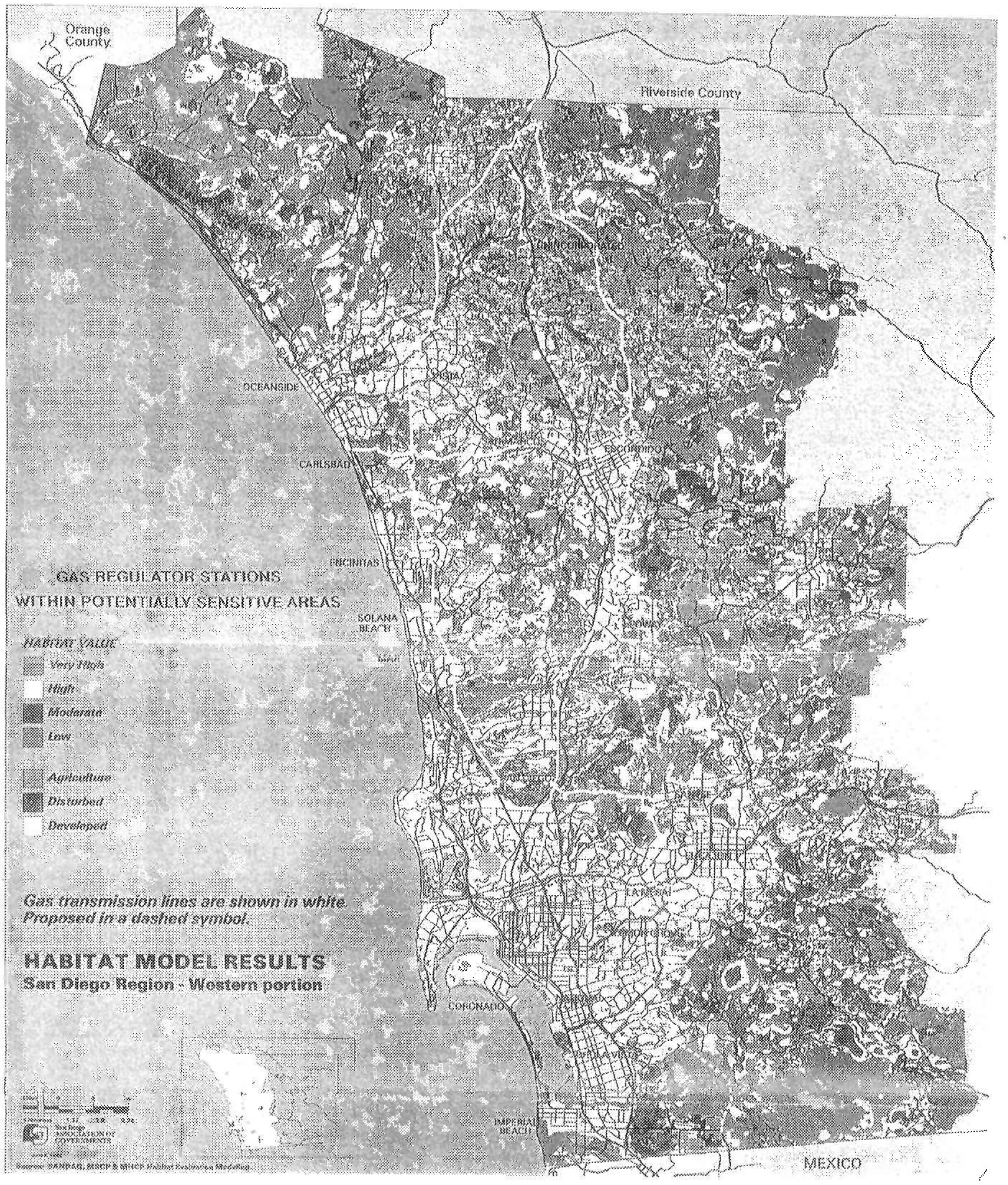
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SDG&E ELECTRIC FACILITIES IN ORANGE COUNTY ARE SHOWN ON FIGURE 9

SDG&E Electric Transmission System

FIGURE 1



SDG&E GAS FACILITIES IN RIVERSIDE COUNTY ARE SHOWN ON FIGURE 10

SDG&E Natural Gas Transmission System

FIGURE 2

Indicates approximate location of SDG&E Moreno Gas Compression Station

SEE DETAIL A

Indicates boundary of Riverside County Habitat Conservation Agency (RCHCA)

San Bernadino County

Riverside County

ORANGE COUNTY COASTAL SUBREGION NCCP

Orange County Southern Subregion NCCP

MHCP

City of Carlsbad HMP

MSCP/MHCP Overlap

MSCP

San Diego River HCP

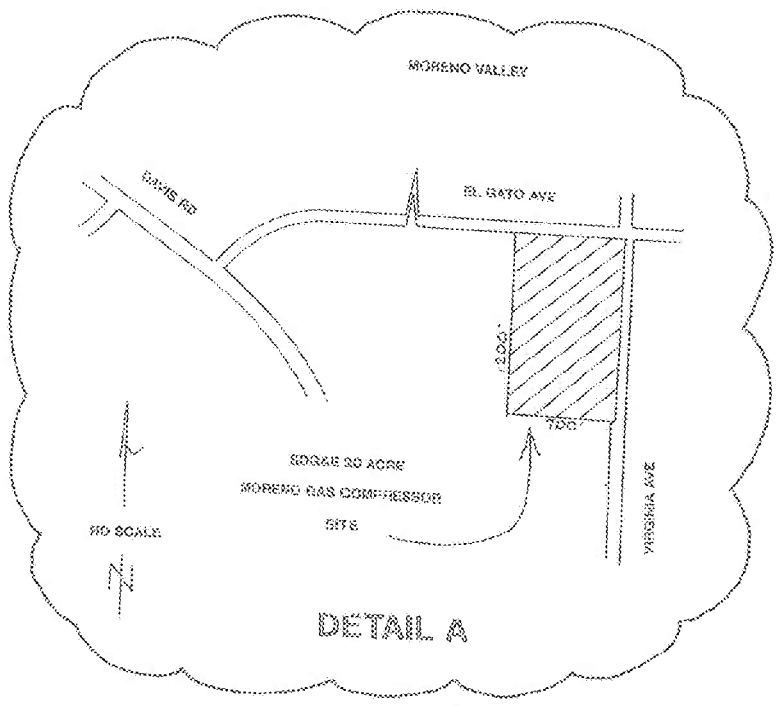
Sweetwater River HCP

Pacific Ocean

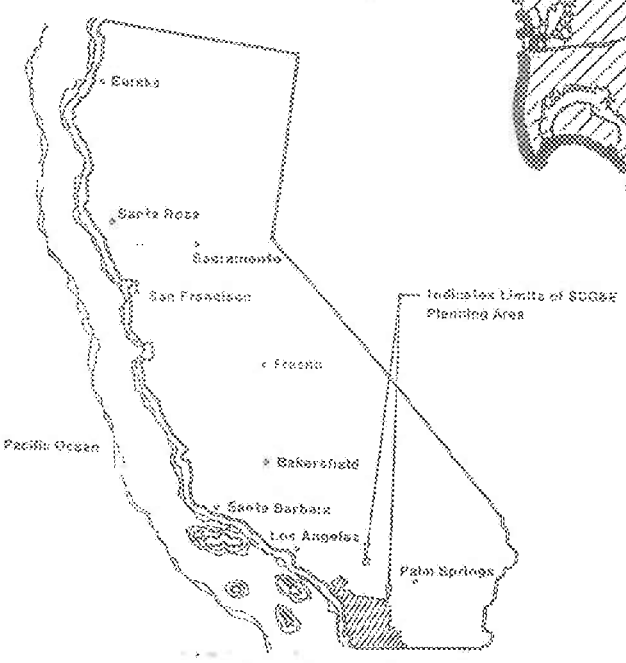
County of San Diego-Multiple Habitat Conservation and Open Space Plan

Mexico

Indicates Boundary of SDG&E Subregional Plan Area



DETAIL A



Regional Location Map

SDG&E Subregional Plan Area

Military Lands Contained Within This NCCP Are Treated Separately From NCCP Management Plans

FIGURE 3

SDGE

Subregional Natural Community Conservation Plan

1.1 Purpose

The purpose of this Subregional Plan is to establish and implement a long term agreement between SDG&E, USFWS and CDFG for the preservation and conservation of Covered Species and their habitat, while allowing SDG&E to develop, install, maintain, operate, and repair its Facilities which are or become necessary to provide electric, natural gas and other Services to the customers served by SDG&E within the Subregional Plan Area.

Because of the evolving and continuing nature of SDG&E's operations within the Subregional Plan Area, SDG&E, USFWS and CDFG have determined that a comprehensive multiple species and habitat conservation plan under ESA Section 10(a) and NCCP will most effectively preserve and enhance Covered Species and their native habitats. The long term multi species and habitat planning approach avoids the less effective, less efficient and more costly process of obtaining federal and state Incidental Take permits on a species-by-species, project-by-project basis.

This Subregional Plan is intended to meet the legal prerequisites of USFWS and CDFG for their issuance of ESA and CESA Incidental Take permits for all Covered Species and their habitat. Specifically, this Subregional Plan (a) authorizes the incidental take of listed and other covered species, such take being incidental to the otherwise lawful Activities of SDG&E, (b) minimizes and mitigates the impacts of such incidental take to the maximum extent possible, (c) assures adequate funding for the implementation of this Subregional Plan, (d) authorizes incidental take will not appreciably reduce the likelihood of the survival or recovery of any listed species or candidate species in the wild, (e) imposes measures to be implemented by SDG&E as requirements for or conditions of the authorization and permits granted herein which will be met by

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SDG&E, (f) generally satisfies and fulfills all measures required by USFWS as being necessary or appropriate for the purposes of this Subregional Plan, including any measures determined to be necessary by the parties to deal with unforeseen circumstances, (g) will provide for the conservation and protection of Covered Species and their habitat within the Subregional Plan Area, as if each of the species, subspecies, or populations were listed under ESA, and (h) satisfies all legal requirements necessary for CDFG to issue a Management Authorization for Covered Species under Fish & Game Code Sections 2081 and 2835, and NCCP Section 2825.

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1.2 Issues

Natural Resource Issues

Impact to Covered Species and their habitat is one of SDG&E's primary environmental concerns associated with its utility operations. The area of Southern California which includes the Subregional Plan Area contains the highest diversity of plant and animal life in the continental United States. As a result of the rapid pace of urbanization in the last half of the twentieth century, SDG&E's Subregional Plan Area also has the highest number of plants and animals in the continental United States which have become protected or are proposed for protection under ESA or CESA.

In the absence of multi-species and habitat conservation guidelines, continued urbanization and other land uses pose significant risks of extirpation or extinction of Covered Species. SDG&E's implementation of standard operating procedures to avoid or minimize impacts to natural resources is a major focus of this plan.

Land Use Issues

Several profound differences exist between the nature and extent of impacts to Covered Species or their habitat which may be caused by agricultural and typical urban development from those which may be caused by the operation of a gas and electric public utility like SDG&E. Agricultural and urban development usually occur on established parcels of land with generally permanent impacts to Covered Species and their habitat as the same are replaced with the project. Agricultural and urban

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development occurs in checkerboard fashion over the available land. With some limited exceptions (e.g., the infrequent installation of electrical substations or natural gas regulator stations), most utility projects are linear in nature requiring limited grading; therefore, impacts upon Covered Species and their habitats caused by the operations of an electric and gas public utility like SDG&E are avoided entirely or are only minimal or temporary. The potential exists, however, for slight habitat fragmentation by virtue of the presence of the utility and its access roads which may facilitate unapproved intrusion into an ecosystem.

In addition to San Diego County, southern Orange and Riverside Counties continue to experience strong socio-economic growth pressures, causing equally strong pressures to be exerted on the regional ecosystem's long term viability. Consequently, the following land use and operational issues were examined within the Subregional Plan Area in the preparation of this document:

- Impacts of adjacent land uses, particularly real estate development, on the Covered Species and their habitat which exist in SDG&E's easements and fee-owned rights-of-way and other land holdings.

- Existing conditions in SDG&E's easements and fee-owned rights-of-way and other land-holdings of natural resources and degree of habitat protection and conservation.

- Land use compatibility.

- Coordination with Habitat Conservation Plans.

- SDG&E's Subregional Plan strategies which include avoidance, minimization, mitigation, and plan implementation strategies.

- Impacts to Covered Species from operation & maintenance activities.

- Impacts to Covered Species from new construction.

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1.3 Approach

Neither CESA nor ESA had been enacted when much of the SDG&E public utility Facilities were planned and constructed. In 1993, SDG&E cooperated with USFWS and CDFG to develop and implement Operational Protocols designed to avoid impacts to specified species and their habitat. However, certain installation, maintenance, operation and repair Activities could not be modified to avoid an Incidental Take of Listed Species. For these Activities, Incidental Take permits were either sought by SDG&E from USFWS and CDFG through either ESA Section 7 and CESA Section 2090 consultation procedures where the appropriate federal or state nexus occurred, or through the ESA Section 10 or CESA Sections 2081/2084 process.

The protection, preservation and conservation of endangered, threatened, candidate species, and other sensitive species and their habitats under ESA, CESA, NCCP and other wildlife acts on a species-by-species basis has resulted in limited success. For SDG&E, such an approach is far too cumbersome and incomplete to adequately identify and conserve the biological and physical resources upon which each such species is dependent. In fact, the implementation of specific protective measures for one species, in the species-by-species/project-by-project approach, may actually cause deleterious conditions to another species. Habitat Conservation Plans, such as the SDG&E Subregional Plan which incorporates comprehensive protection or conservation measures needed for multiple species and their habitat, will most closely approximate an ecosystem conservation approach. It is intended that the biological and physical resources comprising sensitive habitats (ecosystems) be preserved intact to the greatest extent possible. All species within managed habitats will be afforded greater protections than before.

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1.4 Scoping

Applicable Law

Federal

The federal Endangered Species Act (ESA), 15 U.S.C. Section 1531 et seq., provides for the protection and conservation of fish, wildlife and plants which have been listed as threatened or endangered. Activities otherwise prohibited by ESA Section 9 and subject to the civil and criminal enforcement provisions of ESA Section 11 may be authorized for appropriate federal agency action pursuant to ESA Section 7 and for other non-federal actions pursuant to ESA Section 10.

Other federal laws enacted with the intent to protect and conserve Listed Species of fish, wildlife, plants, and their habitats include, but are not limited to, the following:

- The Migratory Bird Treaty Act (including the protective provisions for game and wild birds), The Migratory Bird Conservation Act, and the Migratory Bird Hunting Stamp Act, 16 U.S.C. Section 701 et seq., are intended to protect birds and restore their necessary habitat. Otherwise unlawful activities which may impact such birds or their habitat may be authorized in accordance with applicable regulation, by permit or other entitlement, as appropriate.

- The National Environmental Policy Act, 42 U.S.C. Section 4321 et seq., mandates that federal agencies consider the environmental impacts of their actions, with the intent of avoiding or minimizing any

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such impact prior to conducting federal projects (including the authorization of private projects).

- The Federal Water Pollution Control Act, 33 U.S.C. Section 1251 et seq., provides for certain protections to wildlife relating to the discharges of pollutants into the waters of the United States.

State

Similarly, the California Endangered Species Act (CESA), California Fish and Game Code, Section 2050 et seq., provides for the protection and conservation of fish, wildlife and plants which have been listed by the State of California as threatened, endangered, or as candidate species. Activities prohibited by Section 2080 and subject to the civil and criminal enforcement provisions of Section 12000 et seq., may be authorized for appropriate state actions pursuant to CESA Section 2090 et seq. and for other persons pursuant to CESA Sections 2081 and 2084.

Other state laws enacted with the intent of protecting and conserving fish, wildlife, plants, and their habitats include, but are not limited to, the following:

- Fish and Wildlife Protection and Conservation, California Fish and Game Code, Section 1600 et seq., requires that state agencies, public utilities, and other persons notify CDFG before conducting any project which may adversely affect aquatic habitats of fish or wildlife.

- Native Plant Protection Act (NPPA), California Fish and Game Code, Section 1900 et seq., is intended to preserve, protect and enhance endangered or rare native plants.

- Natural Community Conservation Planning Act (NCCP), California Fish and Game Code Section 2800 et seq. authorizes agreements between CDFG and any person for the comprehensive management and conservation of habitat and multiple wildlife species and permit, as appropriate, as a part of such plan, the Incidental Taking of Listed Species and candidate species under Sections 2830 and 2835.

- California Environmental Quality Act (CEQA), California Public Resources Code Section 21000 et seq., is intended to require state agencies to consider environmental qualitative factors, including the conservation of fish, wildlife and plant species and the preservation of representations of all plant and animal communities for future generations prior to conducting any project.

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Pursuant to ESA Section 10(a), USFWS may issue permits, under such terms and conditions as the Secretary may prescribe, for acts otherwise in violation of ESA Section 9 to enhance the propagation or survival of any affected species or for the taking of any species incidental to an otherwise lawful activity. Further, for threatened species, the Secretary may issue such regulations as necessary to provide for the conservation of such species under ESA Section 4(d). Similarly, CESA Section 2081 enables CDFG to grant management authorization for the take of threatened, endangered or candidate species subject to such terms and conditions as it may prescribe. NCCP authorizes CDFG to enter into agreements with any person to develop and implement a natural community conservation plan to provide comprehensive management and conservation of multiple wildlife species and their habitat. Any such plan may authorize the taking of candidate, threatened or endangered species whose protection and conservation is provided for in any such plan pursuant to NCCP Sections 2830 and 2835.

1.4.2 Coordination

As a result of urbanization, agriculture and other development, the amount of habitat remaining to support Covered Species is rapidly dwindling. The effective protection, preservation and conservation of Covered Species is dependent upon the implementation of effective and properly functioning conservation plans for the habitats and ecosystems essential to the survivability of such species.

Habitat Conservation Plans are now being prepared by various local governments or government entities within the Subregional Plan Area such as the City of San Diego's Multiple Species Conservation Program, San Diego Association of Governments' Multiple Habitat Conservation Program, the County of San Diego's Multiple Habitat Conservation and Open Space Plan, and the South Orange County NCCP Subregional Plan.

Local land development is regulated by local government through enactments of land use, zoning and permitting ordinances pursuant to their police powers derived from the California Constitution. Local Habitat Conservation Plans will be adopted, implemented and enforced pursuant to these same laws. Persons whose development activities fall within the jurisdiction of these local governments will then be authorized to take species/habitats caused by their activities. Local government authority to take species/habitat comes from the issuance of take authorization issued by USFWS and CDFG, pursuant to the State and Federal ESA and the NCCP. Developer compliance will be supervised by local government, USFWS, and CDFG.

SDG&E's land use Activities, the regulation of such Activities, and its Subregional Plan, are unique. The California Constitution, through Article

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XII, created and empowered the CPUC with the exclusive jurisdiction to regulate the affairs and operations of public utilities. Pursuant to Section 8 of Article XII, the enactments of local governments which attempt to regulate public utility operations, in matters over which the CPUC has the power to regulate, are invalid.

The CPUC's exclusive jurisdiction to regulate public utilities recognizes the statewide interest in preserving for the benefit of the State's citizens uniform, safe, and reliable utility service. Were the converse true, and if local governments were allowed to regulate the activities of public utilities, public utilities would be subject to a mosaic of divergent local requirements from as many local governments as there are in the Subregional Plan Area. SDG&E serves a statewide interest.

This Subregional Plan and the Habitat Conservation Plans govern different activities and different persons, often in the same area. The identified Activities in the Subregional Plan are regulated by various state agencies, primarily the CPUC, while the activities identified in the Habitat Conservation Plan are subject to local regulation. In effect the Subregional Plan, governing Activities serving a statewide interests, acts as an overlay across areas also covered by Habitat Conservation Plans, thereby governing activities of municipal concern. As a result of the cooperative efforts of various local governments and public bodies within San Diego, Orange, and Riverside Counties, a reserve of habitat is being established which includes reserve core areas, narrow endemic reserves, and connecting corridors. These reserve areas would be managed primarily for listed plants and animals, with a varying goal of maintaining at least 60 - 90% of the natural lands as high quality habitat, depending on the subregional plan and jurisdiction. The corridors are designed to maintain connections between the primary reserves and to support supplemental populations between reserves. This Subregional Plan is designed to be consistent with the local habitat conservation plans and the overall preserve planning effort.

1.4.3 Activities Covered by Plan and Those Requiring Further CEQA/NEPA Coverage

There are two broad categories of activities covered in the Plan: Operation and Maintenance (O&M) and new construction. O&M pertains to existing facilities and does not require permits; therefore, CEQA/NEPA review is also not required. The Plan recognizes that O&M activities can, at times, have impacts. To mitigate for O&M impacts the Plan contains an extensive list of field protocols designed to minimize disturbance to habitat. The company has also committed to allow use of selected transmission rights-of-way for wildlife corridors. This use of rights-of-way for corridors is specifically intended to mitigate O&M activities and nothing else.

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New construction may be subject to CEQA pursuant to the Public Utilities Commission (PUC) rules, in particular the new General Order 131-d. This Plan is intended to cover typical expansions of the system needed to serve new load, insure reliability, modernize older less efficient facilities, underground existing overhead lines, and to comply with new safety, air, and water quality standards, as well as other retrofits imposed by new government regulations. Those aforementioned activities that would normally be addressed by CEQA will still be subject to CEQA.

This Plan is not intended to exempt such projects from CEQA or NEPA, should the State or Federal Act pertain.

The Plan covers the following activities, as well as, estimates and defines the mitigation which may be required for the biological impacts of the installation, use, maintenance, and repair of the existing gas and electric system and typical expansions to that system. These activities are required to provide adequate, reliable, and safe service to existing customers and to meet the demands of new growth. The Plan does not cover extraordinary expansions to SDG&E's gas and electric system. The Plan also covers biological impacts (within the boundaries of the Plan area only), associated with new electric transmission lines including interconnections that do not project more that 30 miles outside of SDG&E's service territory (200 kV and less), Rainbow to Santee natural gas transmission pipeline, new gas transmission lines under 30" in diameter and less than 20 miles in length, new substations and regulator stations with habitat impacts under 20 acres, and new natural gas compressor stations with habitat impacts under 10 acres. Projects not covered by the Plan will be evaluated on a case-by-case basis, but will be evaluated by the standards set forth in this plan.

Since the future cannot be accurately predicted, the Plan allows for up to 400 acres of impacts in natural areas before requiring a Plan amendment. However, based on current technology, construction methods and standards, population forecasts, and local agency General Plans, the Plan anticipates only 124 acres of grading impacts in natural areas as a result of typical expansion and maintenance activities over the next 25 years (areas which are "natural" are not paved and do not contain ornamental landscaping or otherwise urbanized uses). Impacted areas may be home to one or more of the 110 species covered by this Plan. To mitigate these impacts, the Plan provides the following forms of mitigation:

- The most important mitigation measure is avoidance of impacts whenever possible. To accomplish this, new Operational Protocols for working in the field were developed. There are 61 protocols, all listed in Chapter 7 of the Plan. In addition, field crews attend a series of on-going classes on how to behave and operate construction and maintenance equipment in environmentally sensitive areas.

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- Certain fee-owned rights-of-way will be available for use as wildlife corridors in order to connect the region's conservation areas. SDG&E will also allow the use of certain rights-of-way held in easements for such corridors with the consent of the underlying land owner.

- Mitigation Credits of approximately 240 acres will be established upon commencement of the Subregional Plan. The credits will be debited to mitigate for actual impacts as projects are realized. The wildlife agencies will determine the extent and quality of any impact. If needed, the Mitigation Credits will be replenished by additional land conveyance.

- Restoration and enhancement are also available as mitigation measures, sometimes instead of debits to the Mitigation Credits, and other times in addition to such debits. Restoration will be used in some cases regardless of other forms of mitigation.

1.4.4 Term of Plan

The Plan covers a term of 25 years with options for renewal. Involved parties agreed that 25 years should be the maximum term because of possible major changes in technology, development patterns, and projections and legislation affecting land use and the environment. After 25 years, the Plan will be reevaluated, and, if appropriate, extended. The Mitigation Credits will be replenished as needed.

The program anticipates approximately 124 acres of Covered Species habitat will be temporarily or permanently impacted under this program. A maximum of 400 acres of Covered Species habitat could be temporarily or permanently impacted under the 10(a) permit for this program.

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2 Proposed Actions

2.1 Maintenance and Construction Activities

SDG&E constructs new utility infrastructure on an ongoing basis to maintain uniform, adequate, safe, and reliable electric and gas service. SDG&E also conducts maintenance and repair activities on existing Facilities. Typical construction, maintenance and repair activities for each type of Facility are described in this section. Operational Protocols to be used by SDG&E field personnel to avoid and minimize the potential impacts of installation, maintenance and repairs for each type of facility are contained in Section 7.1[2]

2.1.1 Overhead Facilities

Overhead Facilities are utilized in the transmission and distribution of electricity. Generally, overhead conductors (wires) are supported by wood or steel poles, or by steel lattice towers.

2.1.1.1 New Overhead Facility Alignment

New overhead facilities will, to the extent possible, be designed to minimize habitat fragmentation and disruption of wildlife movement and breeding areas. This will be accomplished by avoiding siting of Facilities in habitat and by utilizing dead-end/spur roads rather than linking facilities tangentially, to the extent possible[3]. When

[2] Extensions of SDG&E gas and electric transmission and distribution facilities provided to serve a particular customer constitute a project of that customer and are not subject to this Subregional Plan, the Implementing Agreement, or the Permits.

[3] "to the extent possible" means without violating CPUC standards or jeopardizing the structural and operational integrity of the facility

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facilities must be sited in undisturbed or habitat areas, they will, to the extent possible, be sited in lower quality habitat (See Figure 4).

2.1.1.2 Placement of Structures

Steel lattice towers are installed using concrete foundations. Wood poles are installed using direct burial or concrete foundations. Maintenance will be performed and repairs may be required to restore structural integrity or inadequacies in a foundation or transmission structure caused by erosion or other occurrences.

2.1.1.3 Placement of Electrical Equipment on Structures

Towers and poles support a variety of electrical equipment including insulators and conductors. Insulators are attached directly to poles, or to arms mounted on the structures. The insulators are installed by workers who climb the structure or access the structure in bucket trucks. Once the insulators are installed, a helicopter is often used to install a small rope. The small rope is used to pull in a bigger rope or cable which is then used to pull in the conductor.

2.1.1.4 Insetting Poles

"Pole insetting" places poles in-line between existing structures. The new poles provide additional strength to support new or heavier conductors. The new poles are also used to achieve necessary wire clearances. Insetting is an effective method of fully utilizing existing electric line structures and alignments which often defers the need for new structures, lines and alignments.

2.1.1.5 Equipment Repair and Replacement

Poles or towers may support a variety of equipment such as conductors, insulators, switches, transformers, lightning arresters, line junctions, and other electrical equipment. This type of equipment may need to be added, repaired, or replaced in order to maintain uniform, adequate, safe, and reliable service. Due to damage, changes in conductor size, or the like, an existing transmission structure will be removed and replaced with a larger/stronger structure at the same or nearby location.

2.1.1.6 Pole Anchors and Stubs

Anchors, guy wires, and stubs are used to support poles. Generally one end of a guy wire attaches to the upper portion of a wood pole. The other end attaches to the top of a stub or to an anchor buried in the ground. These anchors

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can be in or out of alignment with the pole line. In order to maintain pole stability, new anchors or stubs, replacement anchors or stubs may be needed. Stubs can either be made of wood or steel and sometimes require concrete foundations.

2.1.1.7 Insulator Washing

In some areas prone to atmospheric moisture, condensation combines with dust on porcelain insulators can create an electrical discharge. This discharge, known as "arcing", poses a significant risk of service outages. This risk can be substantially reduced by periodic washing of the insulators. The process of washing insulators involves driving a water truck to within 60 feet of the facility. A high pressure hose is used to spray water at the insulator.

2.1.1.8 Tree Trimming

Tree trimming plays a critical role in maintaining reliable electrical power. Tree limb contact with electrical lines is a potential cause of power outages and is also a source of possible ignition and as such a potential fire hazard. Constant vigilance in tree trimming practices, regardless of habitat type, is necessary to maintain proper line clearances.

2.1.1.9 Use of Helicopters

Helicopters are used in the visual inspection of overhead facilities. Each electric transmission line is inspected several times a year via helicopter. Helicopters are also occasionally used to deliver equipment, position poles and towers, string lines and position aerial markers as required by Federal Aviation Administration regulations.

2.1.2 Underground Facilities

Underground Facilities are primarily utilized in the transmission and distribution of natural gas. Conduit containing electrical conductor may also be placed underground. New electric distribution lines are almost always placed underground in public streets.

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2.1.2.1 New Underground Facility Alignment

New underground facilities will be designed to minimize habitat fragmentation and disruption of wildlife movement and breeding areas by avoiding siting facilities in habitat and by utilizing dead-end/spur roads to the extent possible. When facilities must be sited in undisturbed areas, they will, to the extent possible, be sited in lower quality habitat.

2.1.2.2 Underground Facility Access

Underground Facilities are regularly inspected visually and mechanically for any conditions which can potentially impair their function. Inspections involve driving along the top of/or parallel to the underground Facility. Access roads from public streets are utilized to reach the underground alignment. Access road maintenance is therefore a key component in installing, maintaining and inspecting underground Facilities.

2.1.2.3 Protection of Underground Facilities in Waterways

Underground infrastructure may cross a variety of shallow waterways ranging from blue-line streams designated on United States Geological Service maps to agricultural irrigation ditches. When the integrity of the Facility is threatened due to scouring, measures to protect the Facility and to minimize future erosion must be taken. Typical maintenance activities utilized to protect the underground Facilities include grading, addition of fill material to repair erosion damage, repair of adjacent slopes with placement of rip-rap or concrete, compaction of soil, vegetation control of species with invasive root structures, and other activities as necessary. These measures may be accomplished by hand or by equipment or machinery. Vegetation is allowed to grow over the underground Facility where it will reduce erosion by wind and water, and stabilize the soil.

2.1.2.4 Trenching

Trenching is required in order to install, replace, reposition, or repair underground Facilities. The width of the trench is dependent on the depth of the underground Facility and the stability of the side slopes. Underground Facilities are typically buried 3' to 5' deep. Facilities which are buried over 5' deep require side slopes of 1:1 or the use of shoring.

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2.1.2.5 Line Markers

Underground infrastructure installed on private property or out of the public right-of-way is marked above the ground through a variety of methods, including "Transmission Line Markers" (paddle-shaped markers attached at eye level to steel posts). In addition to marking the location of the underground facilities, the markers contain safety warning messages for digging contractors and the general public. Underground alignment occasionally runs perpendicular to a waterway or other terrain which prevents walking or driving along the alignment for inspection purposes. In these instances, a line-of-site free from vegetation from marker to marker must be maintained for visual inspections at a distance.

2.1.2.6 Use of Helicopters and/or Fixed Wing Aircraft for Visual Inspection

Gas transmission lines are inspected by ground patrol or from the air.

2.1.3 Other Ground Disturbance

Many types of ground disturbance are necessary in order to install, protect, maintain and repair Facilities. These types of disturbances generally occur in, but are not limited to, the utility rights-of-way and existing access roads.

2.1.3.1 Access Roads

Access roads comprise part of SDG&E's Facilities. Cost-effective and efficient installation, maintenance, and repair of its Facilities depend upon the availability of adequate access roads. Most gas and electric transmission facilities, and some distribution facilities, require access roads. New access roads will, to the extent possible, be designed to minimize habitat fragmentation and disruption of wildlife movement and breeding areas through the utilization of dead-end/spur roads rather than linking facilities tangentially. When new access roads must be sited in undisturbed areas, they will, to the extent possible, be sited in lower quality habitat (See Figure 5).

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2.1.3.2 Access Roads Crossing Waterways

Access roads may cross a variety of shallow water ways ranging from blue-line streams designated on United States Geological Service maps to agricultural irrigation ditches. Culverts may be added when utilization of an unculverted access road would alter the natural flow of a waterway. When the integrity of the access road is threatened, the culverts will be kept clear of vegetation, sediment, and debris to protect the access road. Sediment deposited in the area will be removed by hand or through the use of earth moving equipment. Other construction and activities include bank stabilization and repair of subsidence damage. These activities may be accomplished through the placement of rip-rap and through the use of earth moving equipment within the access road area.

NOTE: A Streambed Alteration Agreement is still required from CDF&G, however, no additional biological mitigation other than what is defined by this Plan shall be required for Covered Species. Refer to Implementing Agreement and clearance by ACOE/404 permit.

2.1.3.3 Slopes

Cut and fill slopes are constructed to create pads/foundations for utility structures or access roads. Slopes may require erosion repair.

2.1.3.4 Staging & Other Work Areas

Staging areas are for the temporary storage of large construction equipment and materials used in construction, maintenance, and repair activities. They can also serve as equipment turn-around areas, wire pulling sites, equipment parking areas, component assembly areas, equipment laydown areas, equipment and material storage sites, and temporary soil stockpile sites.

2.1.3.5 Geotechnical Remediation

Geotechnical remediation is necessary when geotechnical failure which may threaten the integrity of a Facility such as an electrical structure or a pipeline is imminent or has occurred.

2.1.3.6 Geotechnical Testing

Geotechnical tests are conducted to determine soil stability, depth of water table, engineering design values, and for the presence of hazardous waste. Testing may involve sample drilling, monitoring wells, excavation pits, or trenches.

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Access roads are required for this equipment over existing or potential project sites.

2.1.3.7 Pest Control

Pest control at electric and gas facilities is necessary to ensure system integrity. Facilities requiring pest control are electric substations, gas regulator stations, gas valve boxes, and utility equipment yards (pest control is not necessary within electric transmission rights-of-way). Non-native rats, mice, and other rodents have been known to cause electrical shorts within substation transformers, eat through gas metering equipment, and eliminate the effectiveness of gas valve boxes. Fortunately, SDG&E facilities are not normally attractive to these pests. Therefore, a limited program of pest control is able to keep the rodent population down. Pest control is more common to facilities located adjacent to urbanized areas where food is more plentiful. When necessary, pest control measures will be used in accordance with the written recommendation of a licensed, registered Pest Control Advisor. Pesticides will only be applied by a licensed applicator in accordance with label precautions and applicable law in a manner that does not harm native plants or animals.

2.1.3.8 Fire Control Areas

A clearing of 10 feet in any direction, measured horizontally, from the outer circumference of any pole or tower is needed for construction and is required by law to be maintained for fire protection after construction. This clearing forms an imaginary cylindrical space surrounding each pole or tower. At ground level, all flammable materials that will propagate fire are removed. Within such 10' radius and to height of to 8' from the ground, dead or dying trees or foliage, or the dead, diseased, or dying limbs or foliage are removed. Where such trimming results in the removal of more than 50% of any such tree or foliage to meet fire safety requirements, such tree or foliage is entirely removed. These fire control measures can aid in the prevention of fire caused by arcing and can protect the Facilities from failure due to a fire in a surrounding area. Areas cleared of vegetation are also required around gas line valve complexes and cathodic test stations for fire protection.

2.1.3.9 Vegetation Control

Vegetation must be controlled on access roads, road shoulders, drainage structures, around transformers,

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buildings, fuel tanks, switch and transformer yards, substations, regulator stations, and other Facilities. Vegetation is controlled to facilitate the construction and use of roads, to allow inspection and maintenance of infrastructure and Facilities, to expose hazards such as ruts to drivers, eliminate noxious weeds, prevent fires, and to provide safe working areas.

2.1.3.9.1 ***Mechanical Removal***

The simplest method of removing vegetation is by hand, such as the removal of isolated large shrubs or trees growing in areas where the roots could damage Facilities or where vegetation size restricts visual inspection. Raking is a means of removal usually used only to gather debris in preparation for disposal. Mowing will be used to control vegetation where low vegetation is desirable for erosion control. Clearing an area of vegetation by grading will also be used where no other means are appropriate.

2.1.3.9.2 ***Herbicide Spraying***

Herbicide spraying, although not commonly employed by SDG&E, may be used around buildings and where bare ground is required for fire control. Herbicide spraying will not be conducted where it will damage known populations of Covered Species of plants. The typical regimen for herbicide use includes the application of pre-emergent herbicides during the fall and winter and spot application of contact herbicides during the growing season. All herbicides will be applied by a registered applicator in accordance with label precautions and applicable law.

2.1.4 Substations and Regulator Stations

Electric Substations connect the electrical transmission system to the electric distribution system, and reduce the electrical voltage to the distribution system in order to maintain safe reliable electric service. Substations are designed and operated to meet the safety standards required in the CPUC General Order 131-D for electrical systems. Regulator stations connect the natural gas transmission system to the natural gas distribution system, and regulate the

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supply of gas to that distribution system in order to maintain safe, reliable natural gas service. Regulator stations are designed and operated to meet the safety standards required in the CPUC General Order 112-D for natural gas systems. This Plan mitigates up to 20 acres of habitat impacts associated with new substations and regulator stations.

2.1.4.1 Substation and Regulator Siting

To the extent possible, new substations and regulator stations will be sited to avoid natural areas in order to minimize habitat fragmentation and disruption of wildlife movement and breeding areas. When natural areas must be disturbed, facilities will, to the extent possible, be sited in lowest quality habitat. When facilities must be sited in a preserve area they will, to the extent possible, be sited at the outer boundary of the preserve rather than in the center (See Figure 6).

2.1.4.2 Staging and Other Work Areas

The disturbed areas within the property line of a substation or regulator station may be used as a staging area for the temporary storage of large construction equipment used in construction and maintenance activities. This property may also serve as equipment turn-around areas, wire pulling sites, equipment parking, assembly, and storage sites. Staging areas are used for equipment lay-down areas and pads for equipment positioning during construction. This utilization is intended to be temporary.

2.1.4.3 Fire Control Areas

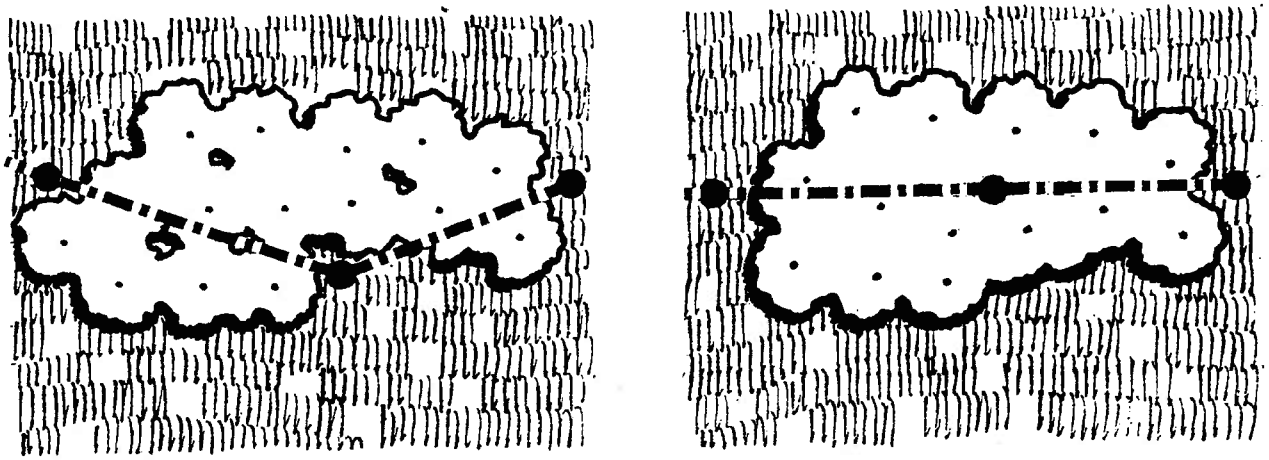
Brush management around substations and regulator stations consisting of a 30'-wide fire break free from natural vegetation is desirable. Fire-control clearances are maintained on a yearly basis.

2.1.4.4 Geotechnical Failure Protection and Remediation

Geotechnical remediation is necessary when geotechnical failure is eminent or has occurred, and threatens the integrity of a Facility such as a substation or a regulator station. Preventative maintenance includes slope reconstruction and the repair or addition of drainage structures and retaining walls. Access is needed to various sites proposed for electrical substations and gas regulator stations for the purpose of obtaining engineering design information on the soils.

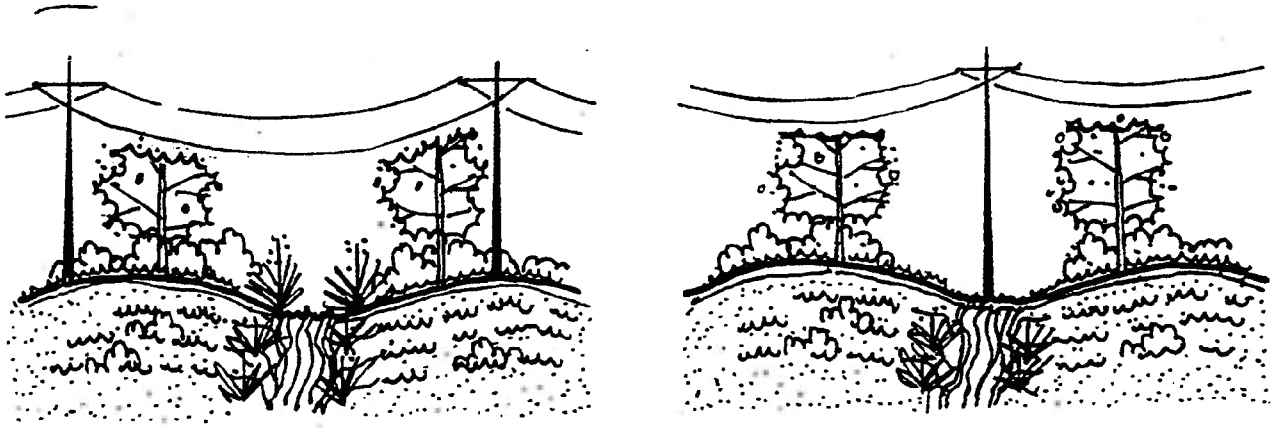
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PLACEMENT OF OVERHEAD POLES SHOULD AVOID HABITAT AREAS



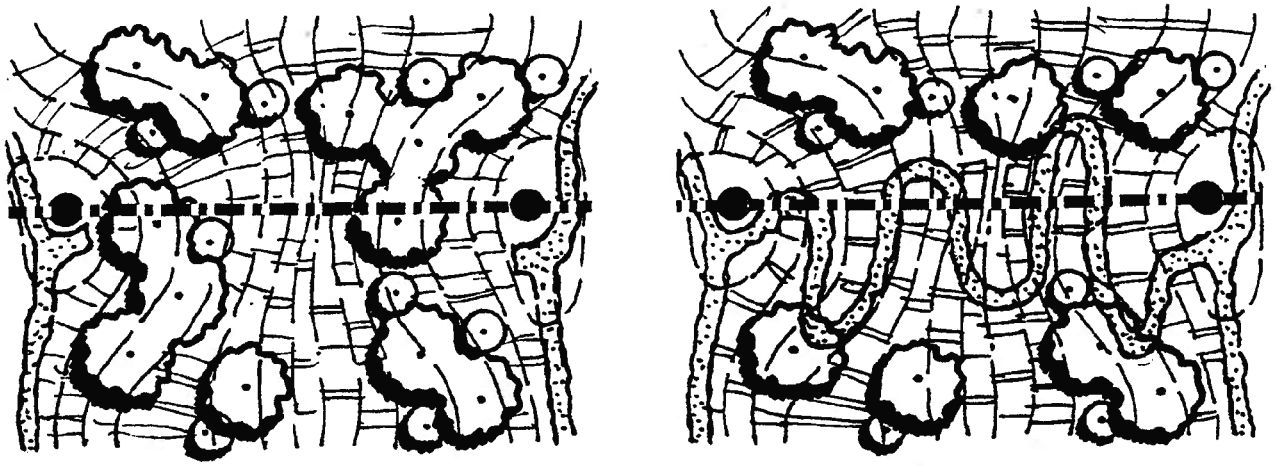
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OVERHEAD POLES SHOULD NOT BE PLACED IN RIVERS, STREAMS, OR CREEKS

FIGURE 4

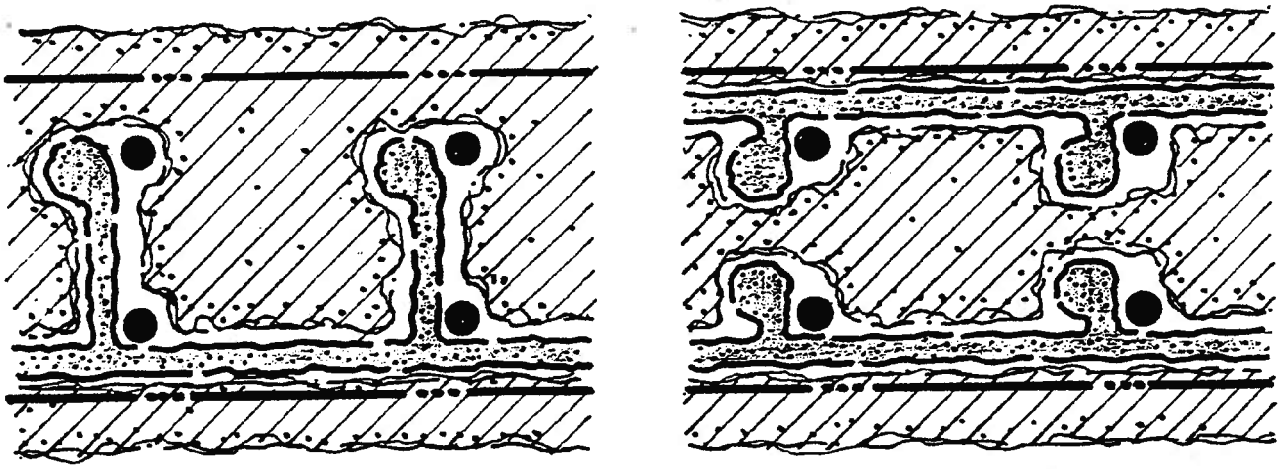
Operational Protocol Diagrams

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NEW ACCESS ROADS SHOULD AVOID SENSITIVE AND CANYON AREAS



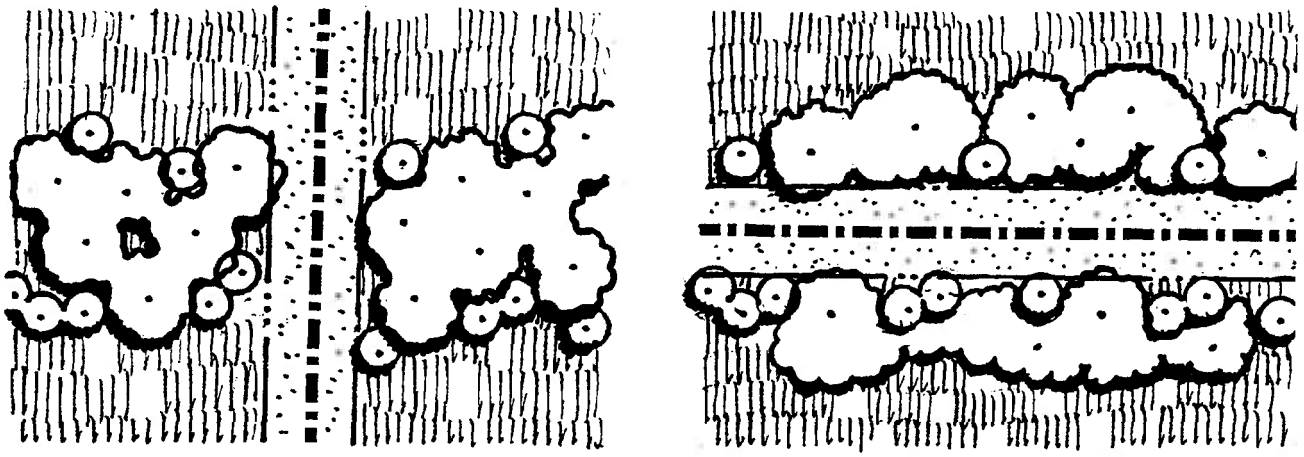
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STUBS FROM EXISTING ACCESS ROADS SHOULD BE USED TO REACH NEW LINES

FIGURE 5

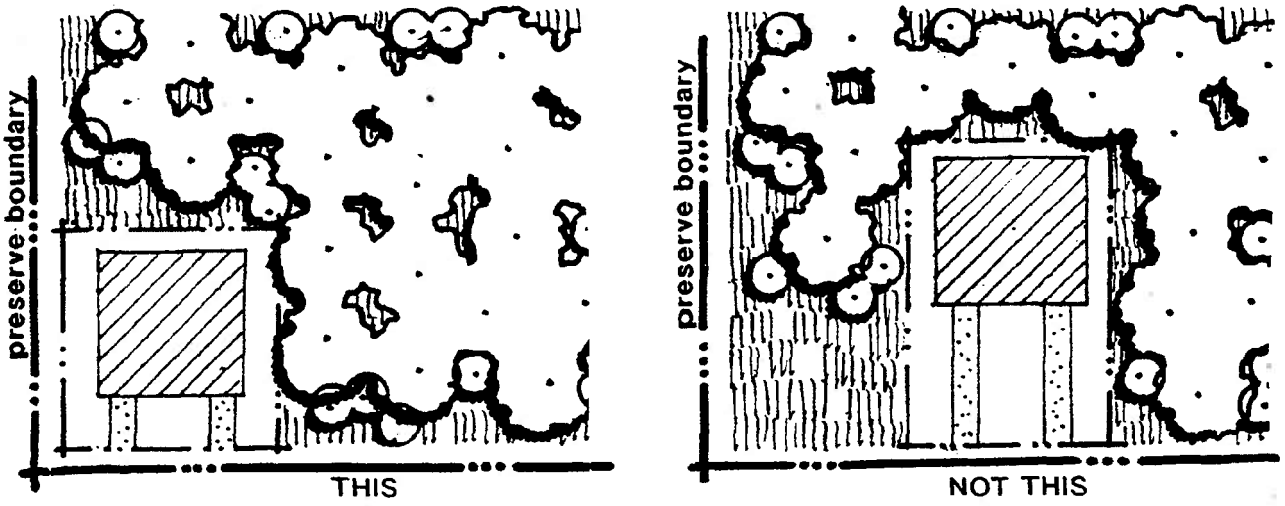
Operational Protocol Diagrams

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THIS NOT THIS

UTILITY LINES SHOULD MAKE PERPENDICULAR CROSSINGS THROUGH HABITAT AREAS



THIS NOT THIS

SUBSTATIONS SHOULD BE SITED AT THE EDGES OF HABITAT PRESERVES

FIGURE 6

Operational Protocol Diagrams

2.2 Emergencies

As a result of natural disaster, stochastic factors or vandalism, emergency repairs to Facilities may be warranted. Emergency repairs may also be required to prevent the occurrence of a Facility failure. Conditions in this category are those that potentially or immediately threaten the integrity of the SDG&E system including: broken/leaking pipes, downed lines/poles, slumps, slides, surface fault ruptures, erosion, major subsidence, or other natural disaster. Emergency repairs will be taken immediately as required. As a result, in considering potential impact to Covered Species or their habitat, adjustments for time of day or seasonal constraints may not be possible in the interest of system integrity and public health and safety.

Emergency work will be performed by SDG&E crews and/or contract crews under the direction of SDG&E and in accordance with the Operational Protocols and mitigation contained in Section 7.

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3 Biology

This section describes the biological information used to assess potential impacts of this Subregional Plan. It identifies the habitats that are the subject of the Subregional Plan and provides a description of potential impacts to Covered Species or their habitat caused by Activities.

The biological data utilized in the development of the Subregional Plan are derived from a variety of sources, including a number of conservation programs being prepared by local governments in Southern California. The sources of SDG&E's biological data and information are set forth in Section 3.1.

Table 3.1 lists the species and habitats for which this Subregional Plan is intended to provide protective and conservation measures over the term of the Implementing Agreement.

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3.1 Data Base References

The data bases for the regional conservation programs covering all of San Diego County and parts of Riverside and Orange Counties provide the biological basis for this Subregional Plan. Vegetation and habitat evaluation maps were used to provide the basis for decision-making on potential preserve boundaries. The three habitat conservation planning areas in San Diego are shown on Figure 7.

For the purposes of this Subregional Plan, the term Covered Species is as defined in the Implementing Agreement. Covered Species which are not listed are included because in most cases they will benefit from the habitat conservation actions to protect Listed Species. Furthermore, if any of the unlisted species are listed in the future, they will be protected as a function of the Implementing Agreement associated with the Subregional Plan.

Covered Species are listed in Table 3.1 Figures 3.1a - 3.1i follow Table 3.1 and indicate the approximate locations of selected sensitive species near SDG&E rights-of-way. These figures are to provide a rough indication of potential areas of impact for workers conducting preactivity surveys consistent with the Operational Protocols (see also § 7.1). These maps will be periodically revised as the quality of data improves.

3.1.1 Multiple Species Conservation Program (MSCP)

The biological data base and information which comprise the scientific basis for the City of San Diego's Multiple Species Conservation Program (MSCP) were developed over six years, beginning in 1989. It will be

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updated periodically as the research and monitoring programs which accompany the implementation of the MSCP are carried out. The MSCP covers about 581,000 acres in southwestern San Diego County. The MSCP biological data base was developed by Ogden Environmental in cooperation with the USFWS, CDFG, local jurisdictions in the San Diego, and various consulting and academic biologists. It also relies in part on the California Natural Diversity Data Base and other records of survey. The Subregional Plan is based in part upon this data base. A map of the draft preserve plan area is attached as Figure 8a. The vegetation map is attached as Figure 8b.

3.1.2 Multiple Habitat Conservation Program (MHCP)

This data base was developed under a similar process to the MSCP data base. The study area covers approximately 658,000 acres in the northwestern portion of San Diego County. The vegetation map is attached as Figure 8c.

3.1.3 San Diego County Multi-Habitat Conservation and Open Space Plan (MHCOS)

This data base remains under development, though basic biological information has been gathered on habitat types and other baseline information. This data base is being developed under a similar process to the MSCP data base. It covers the central mountainous section of San Diego County west of the desert. The vegetation map is attached as Figure 8d.

3.1.4 South Orange County NCCP Subregional Data Base

This data base was also developed under a similar process as the MSCP data base. It covers the southern section of Orange County, largely comprising the Rancho Santa Margarita Company property and adjacent conservation lands, and adjoining the Camp Pendleton Marine Corps Base west of Riverside County. A map of the draft plan area is attached as Figure 9.

3.1.5 Riverside County Habitat Conservation Plan (RCHCP)

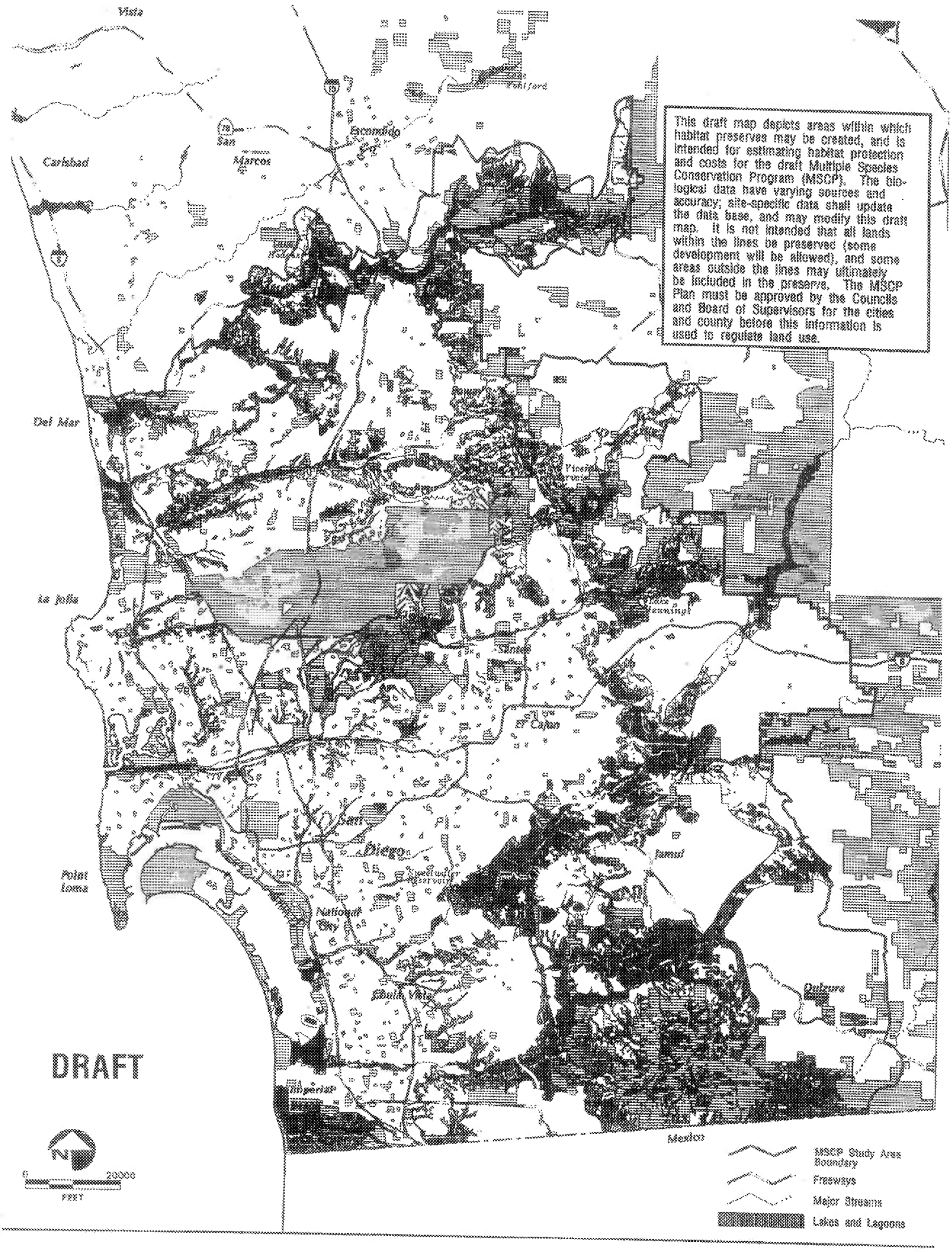
This database was developed to address the recovery plan for the Stephen's Kangaroo Rat. A small portion of SDG&E's system is in this Plan area. The RCHCP intends to expand its scope into a multi-species program. A map of the draft plan area is attached as Figure 10.

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SDGE

Subregional Natural Community Conservation Program

FIGURE 7



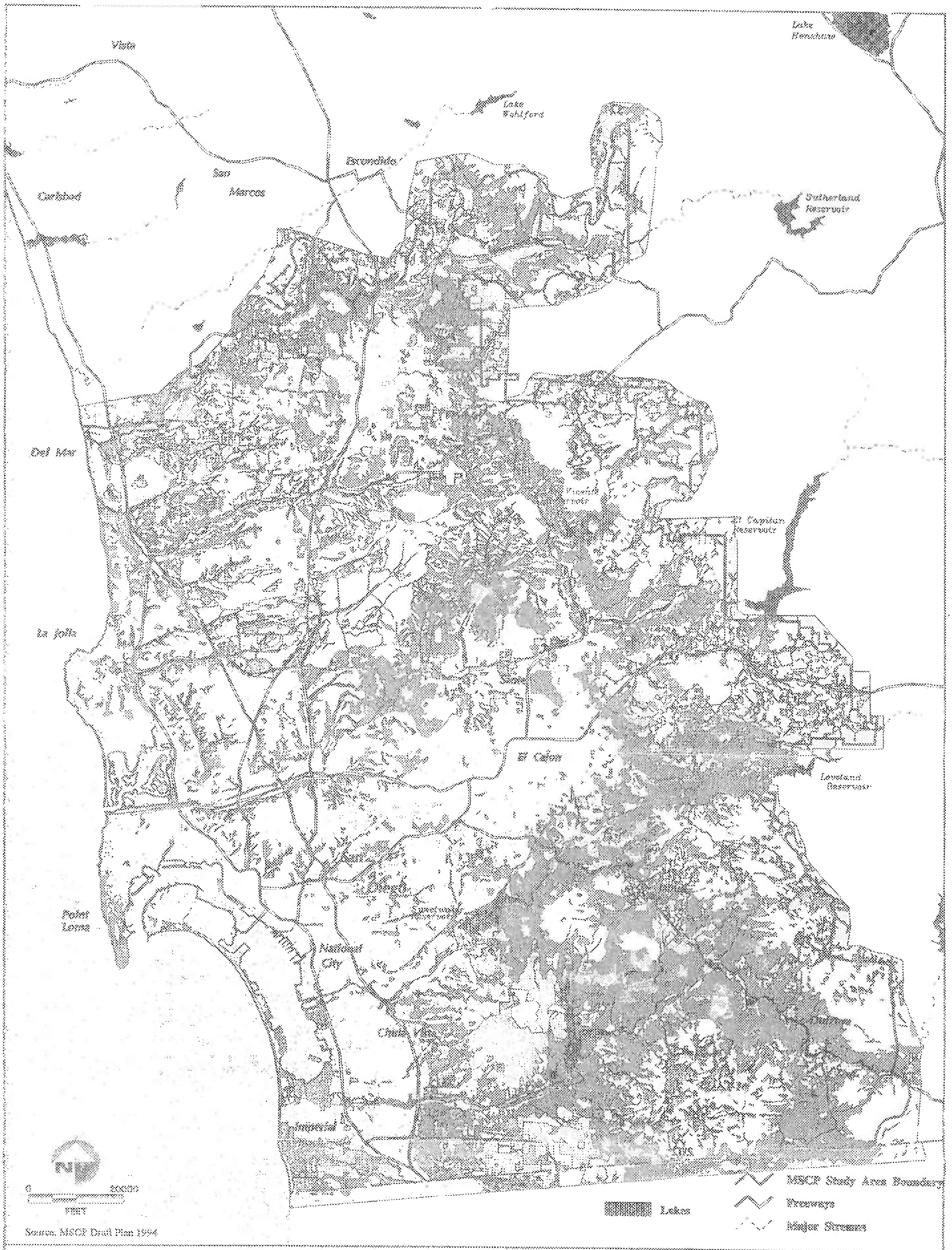
OGDEN

Multiple Habitat Planning Area (MHPA) For The MSCP

FIGURE 8a

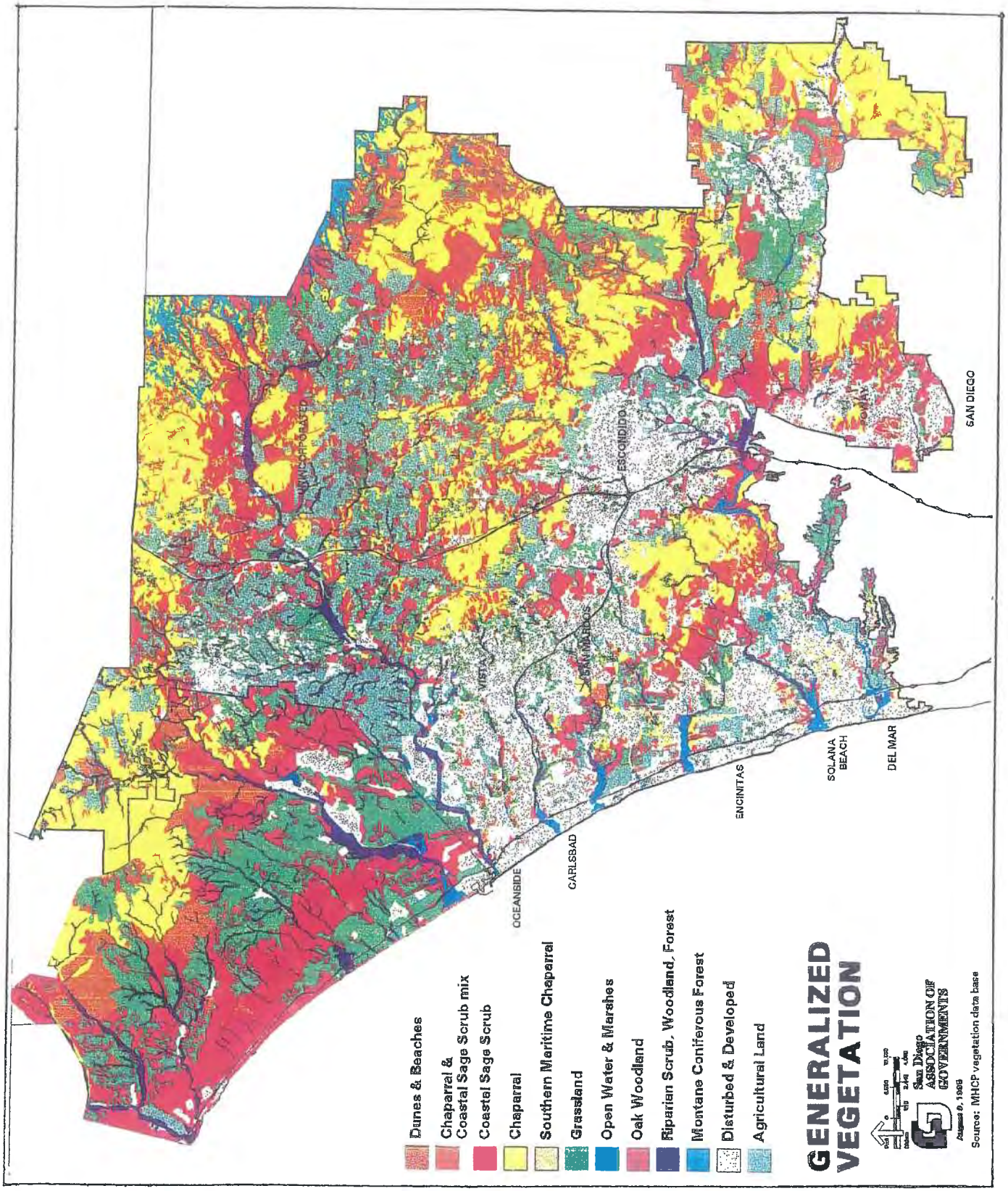
SDGE

Subregional Natural Community Conservation Plan



Vegetation Communities for MSCP Study Area

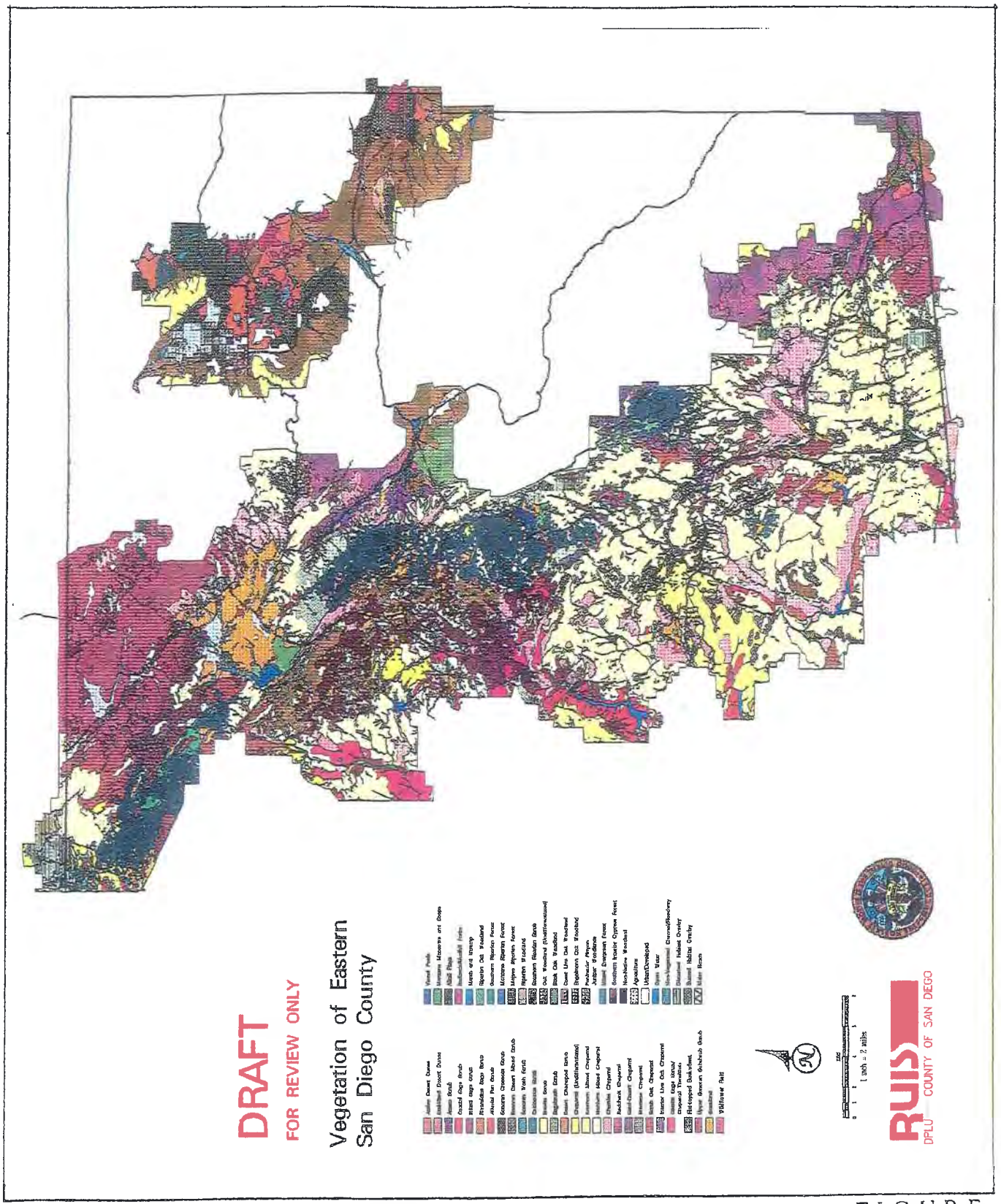
FIGURE 8b



FIGURE

8c

Multiple Habitat Conservation Program MHCP

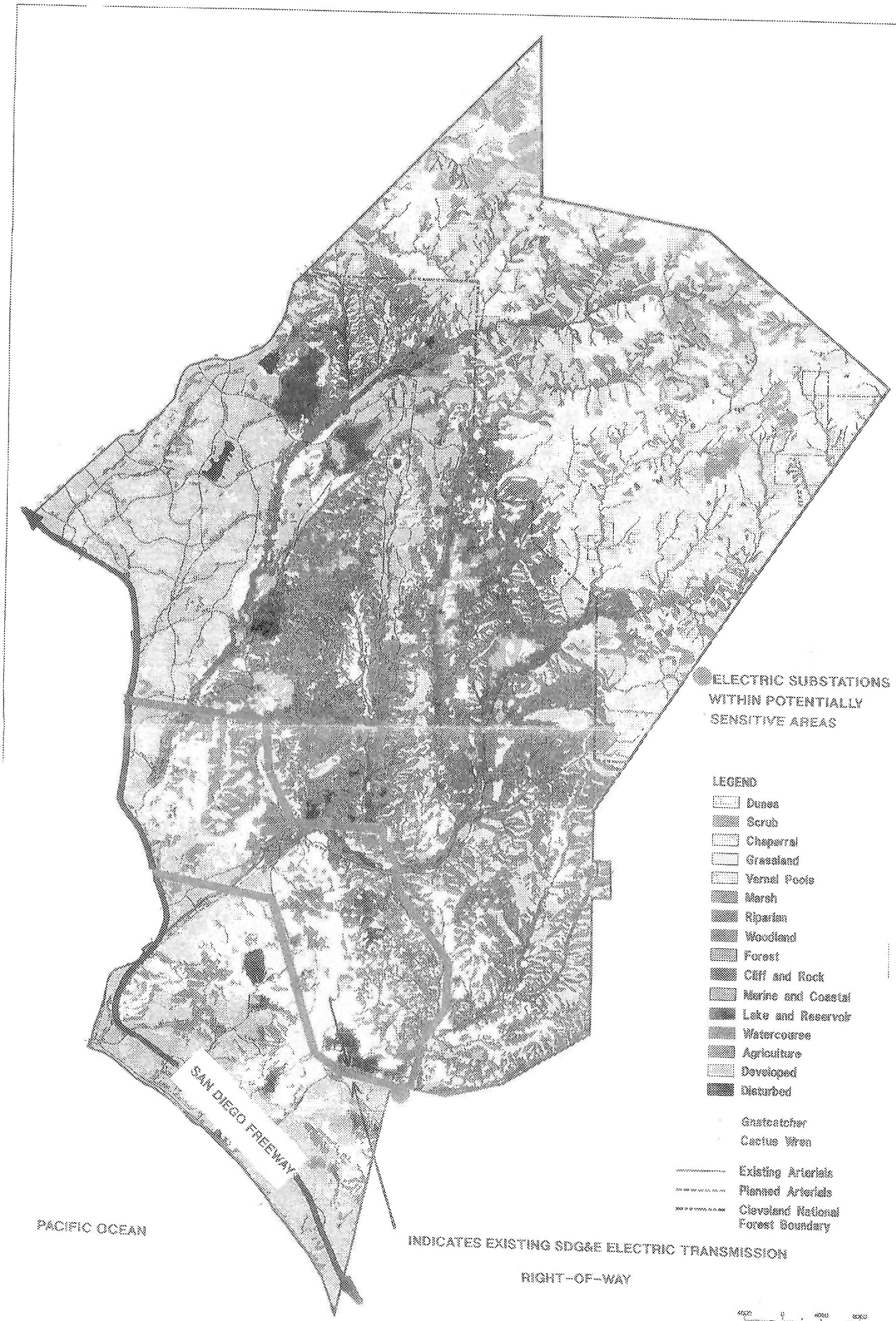


FIGURE

8d

Multiple Habitat Conservation and Open Space Program MHCOS

SDGE Subregional Natural Community Conservation Plan

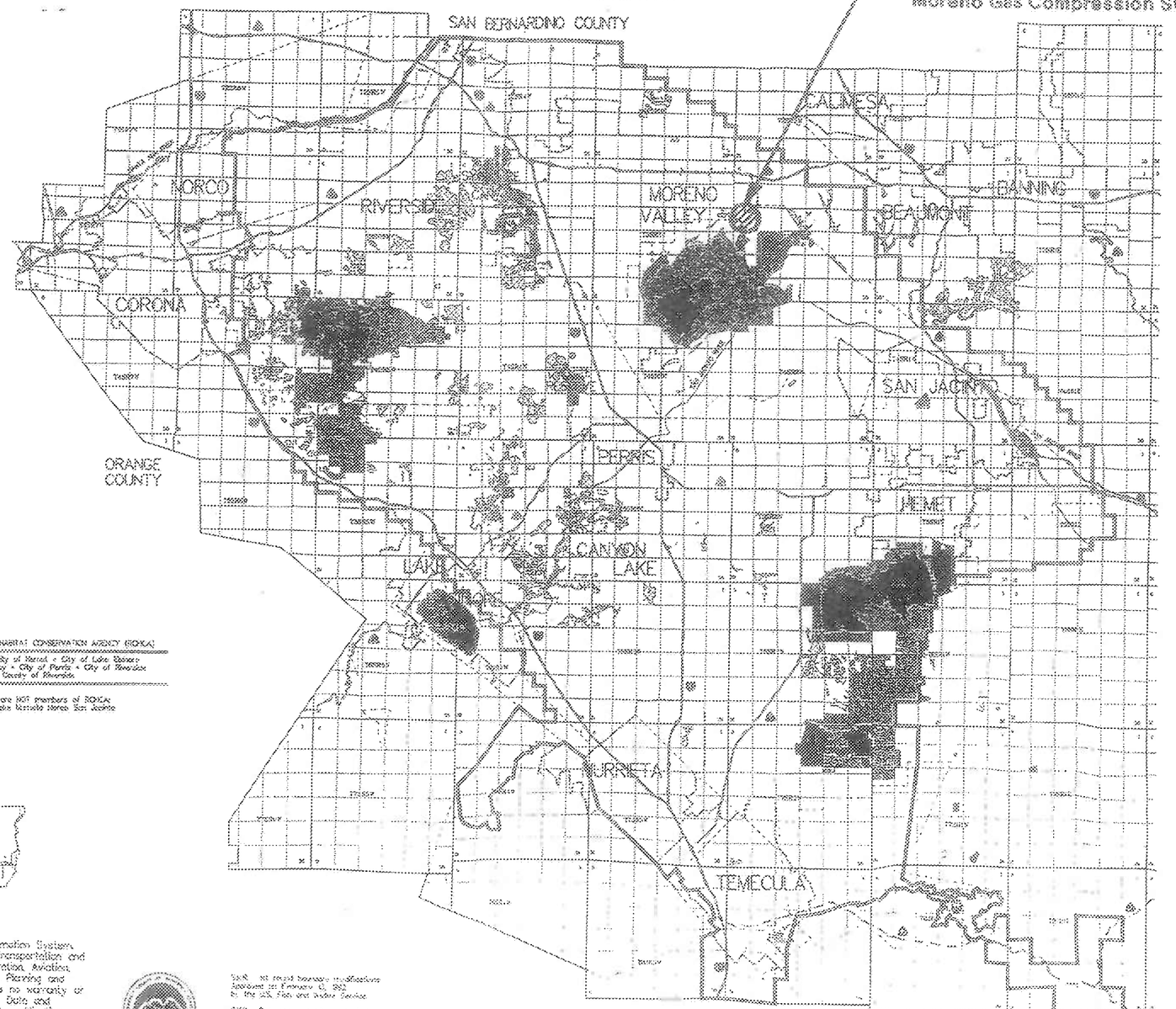


Source: Orange County Southern Subregional NCCP Database

Orange County Southern Subregion NCCP

FIGURE
9

RIVERSIDE COUNTY
HABITAT CONSERVATION AGENCY
FEE AREA – CORE RESERVES



N

SCALE IN FEET

0 8000 16000 24000 32000

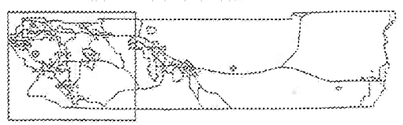
LEGEND

- FEE AREA BOUNDARY (APPLIES ONLY TO MEMBERS OF RCHCA)
- TOWNSHIP LINES
- SECTION LINES
- RANCHO LINES
- CITY BOUNDARY
- HIGHWAYS
- CORE RESERVES AS PER RCHCA
- PROPOSED ADDITIONS TO STEPHENS' KANGAROO RAT FEE AREA
- CITIES
- WATERBODIES
- MWD OPERATIONS AND PROJECTS EXCLUDED FROM CORE RESERVE
- KNOWN OCCUPIED STEPHENS' KANGAROO RAT HABITAT "RECON DATA" The information contained herein is based upon data provided by RECON on March 31, 1994 and may not reflect the current location of occupied Stephens' Kangaroo Rat habitat.

RIVERSIDE COUNTY HABITAT CONSERVATION AGENCY (RCHCA)

City of Corona • City of Norco • City of Lake Elsinore
City of Moreno Valley • City of Perris • City of Riverside
City of Temecula • County of Riverside

The following Cities are NOT members of RCHCA:
Beaumont Canyon Lake Hemet Moreno San Jacinto



June 02, 1994

This map was made by the Riverside County Geographic Information System. The map elements were produced by the Assessor and the Transportation and Land Management Agency which is comprised of the Administration, Aviation, and Information Resources divisions and the Building & Safety, Planning and Transportation departments. The County of Riverside assumes no warranty or legal responsibility for the information contained on this map. Data and information represented on this map is subject to update and modification. The Geographic Information System and other sources should be queried for the most current information.

SKR - 30 mile boundary modification approved on February 11, 1992 by the U.S. Fish and Wildlife Service.

SKR - 25 mile county modification approved on March 31, 1993 by the U.S. Fish and Wildlife Service.

FIGURE 10

Riverside County Habitat Conservation Plan

Subregional Natural Community Conservation Plan

SAGE

TYPES OF HABITAT WITHIN SUBREGIONAL PLAN AREA

- *Southern Foredunes*
- *Southern Coastal Bluff Scrub*
- *Maritime Succulent Scrub*
- *Coastal Sage Scrub*
- *Alluvial Fan Scrub*
- *Chaparral*
- *Southern Maritime Chaparral*
- *Coastal Sage/Chaparral Mix*
- *Grassland*
- *Meadow/Seep*
- *Southern Coastal Salt Marsh*
- *Alkali Marsh*
- *Freshwater Marsh*
- *Coast Live Oak Riparian Forest*
- *Riparian Forest*
- *Riparian Woodland*
- *Riparian Scrub*
- *Open Oak Woodland*
- *Open Engelmann Oak Woodland*
- *Dense Engelmann Oak Woodland*
- *Coast Live Oak Forest*
- *Black Oak Forest*
- *Torrey Pine Forest*
- *Mountain Conifer Forest*
- *Coulter Pine Forest*
- *Big Cone Spruce*
- *Jeffrey Pine*
- *Eucalyptus Forest*

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- *Tecate Cypress Forest*
- *Inland Water*
- *Shallow Bays*
- *Disturbed Wetlands*
- *Non-Vegetated Floodchannel*
- *Beach-Saltpan*
- *Disturbed Habitat*
- *Agricultural*

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MITIGATION

I. Scrub & Chaparral Species

See Protocols (Section 7.1) and Habitat Enhancement Measures (Section 7.2)

II. Grassland Species

Native grasslands: Over gas lines, same as vernal pool, except remove bunch grasses and replant, otherwise span with distribution and transmission lines.

Non-native grasslands: See Protocols (Section 7.1) and Habitat Enhancement Measures (Section 7.2).

III. Beach, Marsh, and Wetland Species

Construction in marsh areas, soft sand, or open water in most cases will be accomplished through the use of helicopters for the delivery of materials, poles, personnel, and platforms. Roads should be avoided to the extent feasible.

IV. Narrow Endemic Species

Take of certain narrow endemic Covered Species is to be avoided. Take authorizations for these species will be limited to emergencies and unavoidable impacts from repairs to existing facilities. The first priority is avoidance, if impact is unavoidable, then state-of-the-art conservation practices will be utilized to determine best mitigation method consistent with Operational Protocols. For repairs to existing facilities which could result in an impact, a biologist would be called in. Take of the "species to be avoided" may not occur for non-emergency repair work without first conferring with the USFWS and CDFG. For new projects, kill or injury of such animal species or destruction of such plants or their supporting habitat would not be covered by the Plan and Implementing Agreement.

V. Riparian Species

See Protocols (Section 7.1, especially 7.1.7)

VI. Forest Species

See Protocols, same as Riparian (Section 7.1, especially 7.1.7)

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VII. Open Water Species

When working in open water: Typically, a wooden platform is fabricated on dry land then delivered by helicopter. The platform, in two pieces, has a 1/2 circle for the pole cut into the edge of each. The platform has "feet" to keep it above the water. The platform would have other holes to prevent suction during removal. Personnel, materials, tools, and replacement poles would also be delivered to the platform by air.

Temporary disturbances in the work area would be limited to a 10' radius around the pole hole.

VIII. Raptor Species

SDG&E will coordinate with wildlife agencies when new or expanded facilities are planned in significant bird movement corridors. The following methods will be considered for implementation on a case by case basis for use in the protection of raptors from electrocution associated with perching/nesting activities on distribution and transmission structures: Pole mounted bird perches, inverted "V" raptor guards, Bird-be-Gone™, saw-toothed metal bird guards, insulated jumpers, or others. These methods will be employed on select structures in areas known to be inhabited by sensitive raptor species when the likelihood of electrocution is high or has been historically documented. Where nests interfere with safe operation of transmission system, avoid removal in months January - June.

Wood Poles

Pole Mounted Bird Perch

- Construction from 2" x 6" treated lumber, attached to the top of wood pole carrying voltages from 12kV - 138kV (PacifiCorp EV 101)

Inverted "V" Raptor Guard

- Constructed of poly pipe and attached to cross arm between insulators with galvanized steel clamps

Wood or Steel Poles

Bird-be-Gone

- 4' long rows of plastic spikes attached to cross arms

Sticky Solution

- Sticky solution on cross arms or wires, birds don't like the feel

Steel Lattice Towers

Metal Bird Guard

- Saw-toothed bird guard, of 22-gauge sheet metal, attached to the cross arms of terminal, tangent, and angle towers, carrying voltages of 69kV and above

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IX. Vernal Pools

SDG&E will avoid vernal pools and their watersheds in the construction of new facilities, including roads. When pools are located above gas lines and repair work is necessary, work areas should be minimized and soil should be stockpiled for replacement after repairs. For new gas lines, avoid through routing changes. For access roads, stay within existing footprint, no new roads through vernal pool areas.

Under certain circumstances, SDG&E is prepared to consider rerouting an existing access road which passes through a vernal pool area as potential mitigation for the impacts of utility Activities on vernal pools that cannot be otherwise avoided pursuant to the Operational Protocols in the Plan, such as in an emergency. This rerouting would only be done if it was possible without compromising operational integrity and safety. The mitigation value of the rerouted road would be at 1:1 level.

X. Stephens' Kangaroo Rat

Take of the Stephens' Kangaroo Rat (SKR) is only permitted for SDG&E in the Multiple Habitat Conservation Program (MHCP) planning area in northern San Diego County for operation and maintenance activities until the MHCP is approved. After that time, and provided that SKR is conserved within MHCP, Take for new construction Activities will be permitted under the terms of this Plan. This condition only applies to the SKR populations in San Diego County; Riverside County has an approved Take process and mitigation protocol. Furthermore, SDG&E's facilities in Riverside County already exist, and no new impacts are expected.

Note: Operational Protocols (Section 7.1) and Habitat Enhancement Measures (Section 7.2) are generally applicable to all of the habitat.

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TABLE 3.1 COVERED SPECIES LIST

#	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	PLANTS					
1	San Diego thornmint (*Acanthomintha ilicifolia*) C1/PE/List 1B, R-E-D 2-3-2	Clay soils in chaparral, coastal sage scrub, valley and foothill grasslands, and vernal pools.	San Diego County and Baja California, Mexico. Known currently from approximately 30 populations that are typically small and endangered by urban pressures.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, IV, IX
2	Shaw's agave (*Agave shawii*) Regionally sensitive species/List 2, R-E-D 3-3-1	Coastal bluff scrub and coastal sage scrub.	San Diego County and Baja California, Mexico. Only three, small, disjunct populations occur naturally in the U.S. Has been introduced to other localities.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	I, IV
3	San Diego ambrosia (*Ambrosia pumila*) Regionally sensitive species/List 1B, R-E-D 3-3-2	Chaparral, coastal sage scrub, valley and foothill grasslands, and vernal pools. Often in disturbed areas.	Riverside and San Diego counties and Baja California, Mexico. In San Diego County, currently known from 4 scattered populations.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, II, IV, IX
4	Aphanisma (*Aphanisma blitoides*) Regionally sensitive species/List 1B, R-E-D 2-2-2	Sandy areas in coastal bluff scrub and coastal sage scrub.	Central California coast to Baja California, Mexico. May be extirpated in San Diego County and severely declining throughout its mainland U.S. range.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts to San Diego County populations will be avoided unless deemed necessary for emergencies or repairs.	I, IV
5	Otay manzanita (*Arctostaphylos otayenis*) Regionally sensitive species/List 1B, R-E-D 3-2-3	Volcanic soils in chaparral and cismontane woodland.	Scattered populations occur on Otay, San Miguel, and Jamul, mountains in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I, VII
6	Del Mar manzanita (*Arctostaphylos glandulosa* var. *crassifolia*) PE/List 1B, R-E-D 3-3-2	Southern maritime chaparral.	Infrequent in coastal San Diego County from Del Mar to Carlsbad.	FESA (assuming federal action associated with take), CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I
7	Coastal dunes milk-vetch (*Astragalus tener* var. *titi*) C1/PE/List 1B, R-E-D 3-3-3	Coastal bluff scrub and coastal dunes.	Historically occurred in San Diego, Monterey, and Los Angeles counties. Presumed extirpated in San Diego and Los Angeles counties.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	III, IV
8	Encinitas baccharis (*Baccharis vanessae*) PE/CE/List 1B, R-E-D 2-3-3	Sandstone soils in chaparral.	San Diego County endemic. Restricted to approximately 13 known localities.	FESA (assuming federal action associated with take), CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	I, IV
9	Nevin's barberry (*Berberis nevinii*) C1/PE/List 1B, R-E-D 3-3-3	Sandy or gravelly soils in chaparral, cismontane woodland, coastal sage scrub, and riparian scrub.	Los Angeles County south to Riverside, San Bernardino, and San Diego counties. Populations are relatively stable although few in number. No extant native populations are known in San Diego County.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, IV, VI
10	Thread-leaved brodiaea (*Brodiaea filifolia*) PT/CE/List 1B, R-E-D 3-3-3	Clay soils in coastal sage scrub, cismontane woodland, valley and foothill grasslands, and vernal pools.	Interior valley regions of Riverside and San Diego counties. Fifteen populations are known from San Diego County, 6 from Riverside County, 2 from San Bernardino County, and 1 each from Los Angeles and Orange counties.	FESA (assuming federal action associated with take), CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species. Vernal pool populations will be adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, II, VI, IX

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TABLE 3.1 COVERED SPECIES LIST

#	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	PLANTS					
11	Orcutt's brodiaea (*Brodiaea orcuttii*) Regionally sensitive species/List 1B, R-E-D 1-3-2	Clay soils in close-coned coniferous forests, chaparral, cismontane woodlands, meadows, valley and foothill grasslands, and vernal pools.	Riverside and San Bernardino counties to Baja California, Mexico. Found in numerous localities in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species. Vernal pool populations will be adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, VI, IX
12	Dense reed grass (*Calamogrostis koelerioides*) Regionally sensitive species	Chaparral.	Orange and San Diego counties. Known from approximately 25 localities in San Diego County and approximately 3 localities in Orange County.	Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitat. The Plan also preserves habitat to maximum extent practicable and preserves corridors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	I
13	Dunn's mariposa lily (*Calochortus dunnii*) CR/List 1B, R-E-D 2-2-2	Gabbroic and metavolcanic soils in close-coned coniferous forests and chaparral.	Southern Peninsular Range of San Diego County and adjacent Baja, California, Mexico. Known from approximately 8 localities in San Diego County.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I, VI
14	Payson's jewelflower (*Caulanthus simulans*) Regionally sensitive species/List 4, R-E-D 1-2-3	Sandy, granitic soils in chaparral and coastal sage scrub.	Riverside and San Diego counties. Known from approximately 19 localities in San Diego County and 4 localities in Riverside County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I
15	Slender-pod jewelflower (*Caulanthus stenocarpus*) CR	Chaparral, especially on burns.	San Diego County to northern Baja California, Mexico. Widespread but sporadic distribution.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I
16	Lakeside ceanothus (*Ceanothus cyaneus*) Regionally sensitive species/List 1B, R-E-D 3-2-2	Acid igneous rockland in close-coned coniferous forests and chaparral.	Western San Diego County to Baja California, Mexico. Restricted to Crest and El Cajon Mountain region in San Diego County. Specimen collected from Baja California, Mexico may be a hybrid.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchenge and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I, VI
17	Wart-stemmed ceanothus (*Ceanothus verrucosus*) Regionally sensitive species/List 2, R-E-D 1-2-1	Chaparral.	San Diego County and Baja California, Mexico. Currently known from approximately 17 localities in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitat. The Plan also preserves habitat to maximum extent practicable and preserves corridors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	I
18	Orcutt's spineflower (*Chorizanthe orcuttiana*) PE/CE/List 1B, R-E-D 3-3-3	Chaparral, close-coned coniferous forests, and coastal sage scrub.	Endemic to San Diego County. Only one site known to be extant: Oak Crest Park in Encinitas.	FESA (assuming federal action associated with take), CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	I, IV, VI

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TABLE 3.1 COVERED SPECIES LIST

#	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	PLANTS					
19	Orange County Turkish rugging (*Chorizanthe staticoides* ssp. *chrysacantha*) Regionally sensitive species	Ocean bluffs, coastal sage scrub.	San Diego and Orange counties. Two known localities in San Diego County and 11 known in Orange County.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I
20	Salt marsh bird's-beak (*Cordylanthus maritimus* spp. *maritimus)* FE/CE/List 1B, R-E-D 2-2-2	Coastal dunes and coastal salt marshes.	San Luis Obispo County south to Baja California, Mexico. Restricted to 2 extant populations in San Diego County and possibly 2 in Orange County.	FESA (assuming federal action associated with take), CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III, IV
21	Orcutt's bird's-beak (*Cordylanthus orcuttianus*) Regionally sensitive species/List 2, R-E-D 3-3-1	Coastal sage scrub.	Endemic to San Diego County and Baja California, Mexico. Restricted to a few localities in southwestern San Diego County. Otay River populations are only vigorous, extant U.S. populations.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitat. The Plan also preserves habitat to maximum extent practicable and preserves corridors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	I
22	Tecate cypress (*Cupressus forbesii*) Regionally sensitive species/List 1B, R-E-D 3-2-2	Close-coned coniferous forests and chaparral.	Orange County, San Diego County, and Baja California, Mexico. Known from 6 localities in San Diego County and 6 localities in Orange County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	VI
23	Short-leaved dudleya (*Dudleya blochmaniae* ssp. *brevifolia*) PE/CE/List 1B, R-E-D 3-3-3	Torrey sandstone in chaparral and coastal sage scrub.	Between La Jolla and Del Mar in San Diego County. Known from approximately 6 but not more than 8 localities.	FESA (assuming federal action associated with take), CESA,NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	I, IV
24	Many-stemmed dudleya (*Dudleya multicaulis*) Regionally sensitive species/List 1B, R-E-D 1-2-3	Often clay soils in chaparral, coastal sage scrub, and valley and foothill grasslands.	Los Angeles, Orange, Riverside, San Bernardino, and San Diego counties. Known only from Marine Corps Base Camp Pendleton in San Diego County, numerous localities in Orange County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I, II
25	Variegated dudleya (*Dudleya variegata*) Regionally sensitive species/List 1B, R-E-D 2-2-2	Chaparral, cismontane woodlands, coastal sage scrub, valley and foothill grasslands, and vernal pools.	Southern San Diego County and northwestern Baja California, Mexico. Known from approximately 60 localities in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species. Vernal pool populations will be adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, II, VI, IX
26	Sticky dudleya (*Dudleya viscida*) C1/List 1B, R-E-D 3-2-3	Rocky areas in coastal bluff scrub, chaparral, and coastal sage scrub.	San Diego, Orange, and Riverside counties. Known from 10 populations in San Diego County, 4 localities in Orange County, and 1 location in southwestern Riverside County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I

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	PLANTS					
27	Palmer's ericameria (*Ericameria palmeri* ssp. *palmeri*) Regionally sensitive species/List 2, R-E-D 2-2-1	Coastal sage scrub.	Southern San Diego County and Baja California, Mexico. Known from 10 populations in San Diego County.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	I, IV
28	San Diego button-celery (*Eryngium aristulatum* var. *parishii*) FE/CE/List 1B, R-E-D 2-3-2	Coastal sage scrub, valley and foothill grasslands, and vernal pools.	San Diego and Riverside counties and Baja California, Mexico. Known from 65 localities in San Diego County; many of these are remnants of once larger populations.	FESA (assuming federal action associated with take), CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species. Vernal pool populations will be adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, II, IX
29	Coast wallflower (*Erysimum ammophilum*) Regionally sensitive species/List 1B, R-E-D 2-2-3	Coastal dunes.	San Diego County, Santa Rosa Island, Santa Cruz and Monterey counties. Known from approximately 7 localities in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	III, IV
30	San Diego barrel cactus (*Ferocactus viridescens*) Regionally sensitive species/List 2, R-E-D 1-3-1	Chaparral, coastal sage scrub, maritime succulent scrub, and valley and foothill grasslands.	San Diego County and Baja California. Persists in numerous, fragmented populations in San Diego County. Its highest densities occur on Otay Mesa, particularly northeast of Brown Field and at the east end of Wruck Canyon.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I, II
31	Palmer's grapplinghook (*Harpagonella palmeri*) Regionally sensitive species/List 2, R-E-D 1-2-1	Clay soils in chaparral, coastal sage scrub, and valley and foothill grasslands.	Los Angeles, Orange, Riverside, and San Diego counties, on San Clemente Island, in Arizona, Baja California, and Sonora, Mexico. In San Diego County several thousand individuals grow on the slopes of Table Mountain near Jacumba. Otherwise most populations are small and scattered along the coast.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I, II
32	Otay tar plant (*Hemizonia conjugens*) PE/CE/List 1B, R-E-D 3-3-2	Clay soils in coastal sage scrub and valley and foothill grasslands.	Southern San Diego County and northwestern Baja California, Mexico. Most U.S. localities for this species occur in the vicinity of Chula Vista.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I, II
33	Heart-leaved pitcher sage (*Lepechinia cardiophylla*) Regionally sensitive species/List 1B, R-E-D 3-2-2	Close-coned coniferous forests, chaparral, and cismontane woodlands.	Orange, Riverside, San Diego counties and Baja California, Mexico. Restricted to one population on Iron Mountain in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I, VI
34	Gander's pitcher sage (*Lepechinia ganderi*) Regionally sensitive species/List 1B, R-E-D 3-1-2	Close-coned coniferous forests, chaparral, coastal sage scrub, and valley and foothill grasslands.	San Diego County and Baja, California, Mexico. Known from four localities in San Diego County (Otay Mountain, the Jamul Mountains, San Miguel Mountain, and Donohoe Mountain).	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species. Three of the 4 populations are currently in designated open space.	I, II, VI

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	PLANTS					
35	Del Mar Mesa sand aster (*Corethrogyne filaginifolia* var. *linifolia*) PT/List 1B, R-E-D 3-2-3	Chaparral and coastal sage scrub.	San Diego County. Restricted to a few, disjunct populations between Los Penasquitos Canyon and Encinitas (possibly Carlsbad).	FESA (assuming federal action associated with take) and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I
36	Nuttall's lotus (*Lotus nuttallianus*) Regionally sensitive species/List 1B, R-E-D 3-3-2	Coastal dunes and coastal sage scrub.	Southern San Diego County to northern Baja California, Mexico. Restricted to approximately 6 localities along the immediate coast in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I, III
37	Felt-leaved monardella (*Monardella hypoleuca* ssp. *lanata*) Regionally sensitive species/List 1B, R-E-D 2-2-2	Chaparral and cismontane woodland.	Orange and San Diego counties to Baja California, Mexico. Known from approximately 30 localities in San Diego County and possibly 1 locality in Orange County.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I, VI
38	Willowy monardella (*Monardella linoides* ssp. *viminea*) PE/CE/List 1B, R-E-D 2-3-2	Close-coned coniferous forests, chaparral, riparian forests, riparian scrub, and riparian woodland.	San Diego County to Baja California, Mexico. Known from approximately 16 localities in San Diego County.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, IV, V, VI
39	San Diego golden star (*Muilla clevelandii*) Regionally sensitive species/List 1B, R-E-D 2-2-2	Chaparral, coastal sage scrub, valley and foothill grasslands, and vernal pools.	San Diego County to Baja California, Mexico. Known from approximately 112 localities in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species. Vernal pool populations will be adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, II, IX
40	Little mousetail (*Myosurus minimus* ssp. *apus*) Regionally sensitive species/List 3, R-E-D 2-3-2	Vernal pools (alkaline).	Riverside, San Bernardino, San Diego, Butte, Alameda, Contra Costa, Colusa, Solano, Stanislaus, and Kern counties; Oregon; Baja California, Mexico. Restricted to several vernal pool complexes on the mesas north of San Diego and on Otay Mesa in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	IX
41	Prostrate navarretia (*Navarretia fossalis*) PT/List 1B, R-E-D 2-3-2	Vernal pools.	Riverside, San Diego counties to Baja California, Mexico. Restricted to populations on Otay Mesa, Camp Pendleton, and Ramona in San Diego County.	FESA (assuming federal action associated with take) and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	IX

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	PLANTS					
42	Snake cholla (*Opuntia parryi* var. *serpentina*) Regionally sensitive species/List 1B, R-E-D 3-3-2	Chaparral, coastal sage scrub, and maritime succulent scrub.	Southwestern San Diego County into northwestern Baja California, Mexico. In San Diego County is known from approximately 14 localities.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	I, IV
43	California Orcutt grass (*Orcuttia californica*) FE/CE/List 1B, R-E-D 3-3-2	Vernal pools.	Riverside and San Diego counties and in Baja California, Mexico. Known from approximately 10 localities in San Diego County and approximately 3 localities in Riverside County.	FESA (assuming federal action associated with take), CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	IIX
44	Torrey pine (*Pinus torreyana*) Regionally sensitive species/List 1B, R-E-D 3-2-3	Sandstone in close-coned coniferous forests and chaparral.	Along the coast near Del Mar in San Diego County and on Santa Rosa Island. Known only from these two localities as natives.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I
45	San Diego mesa mint (*Pogogyne abramsii*) FE/CE/List 1B, R-E-D 2-3-3	Vernal pools.	San Diego County (Los Peñasquitos Canyon, Miramar, and San Diego). Restricted to these vernal pool complexes.	FESA (assuming federal action associated with take), CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	IX
46	Otay mesa mint (*Pogogyne nudiuscula*) FE/CE/List 1B, R-E-D 3-3-2	Vernal pools.	Southwestern San Diego County and Baja California, Mexico. Restricted to 3 to 5 vernal pool complexes on Otay Mesa in San Diego County.	FESA (assuming federal action associated with take), CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	IV, IX
47	Small-leaved rose (*Rosa minutifolia*) CE/List 2, R-E-D 3-3-1	Chaparral.	San Diego County to Baja California, Mexico. In San Diego County, restricted to 1 thicket on northwestern Otay Mesa.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitat to maximum extent practicable and preserves corridors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	I
48	Dehesa beargrass (*Nolina interrata*) PT/CE/List 1B, R-E-D 3-3-2	Chaparral (gabbroic and serpentinite)	San Diego County to Baja California, Mexico. Known from approximately 9 localities in San Diego County.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitat to maximum extent practicable and preserves corridors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	I

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#	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	PLANTS					
49	San Miguel savory (*Satureja chandleri*) Regionally sensitive species/List 4, R-E-D 1-2-2	Chaparral, cismontane woodland, coastal sage scrub, riparian woodland, and valley and foothill grasslands.	Northern Baja California, Mexico; San Diego County; and adjacent Orange and western Riverside counties. An extremely rare shrub with very few recent reports.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, II, V, VI
50	Gander's butterweed (*Senecio ganderi*) CR/List 1B, R-E-D 3-2-3	Chaparral (burned areas, gabbroic outcrops).	San Diego and Riverside counties. Known from approximately 11 localities in San Diego County.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitat to maximum extent practicable and preserves corridors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	I
51	Narrow-leaved nightshade (*Solanum tenuilobatum*) Regionally sensitive species	Chaparral.	Southern San Diego County to Baja California, Mexico. Otay Mountain is a focus for populations of this species. Known from approximately 30 localities in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitat. The Plan also preserves habitat to maximum extent practicable and preserves corridors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	I
52	Parry's tetracoccus (*Tetracoccus dioicus*) Regionally sensitive species/List 1B, R-E-D 3-2-2	Chaparral and coastal sage scrub.	San Diego and Riverside counties and Baja California, Mexico. Approximately 32 known localities but rare in the southern portions of San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I

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#	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	ANIMALS					
1	Cooper's hawk (*Accipiter cooperii*) SSC	Riparian woodlands.	Throughout the continental U.S. excluding Alaska, parts of Montana, and parts of the Dakotas. Winters south to Mexico and Honduras. Uncommon migrant, winter visitor, and summer resident in San Diego County. Breeds in San Diego County.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan are discountable because the species has such a widespread distribution. Also, the Plan preserves its habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	VIII
2	Tricolored blackbird (*Agelaius tricolor*) SSC	Croplands, edges of fields, and edges of ponds.	California's Central Valley, west of the Sierra Nevada Mountains from San Diego County north to Lake County. Breeding populations in California in Siskiyou and Modoc counties and in southern Oregon. Very common to abundant, but localized, resident in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III
3	Southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*) SSC	Coastal sage scrub and chaparral.	Ventura County southeast through Los Angeles, Orange, Riverside and San Diego counties to northwestern Baja California, Mexico. Uncommon to fairly common, but localized, resident in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	I
4	Grasshopper sparrow (*Ammodramus savannarum*) Regionally sensitive species	Grasslands.	Southern Canada to the southern U.S., West Indies, and Mexico to Ecuador. Uncommon and localized summer resident; may be very rare in winter.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, the species has a somewhat broad distribution, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	II
5	Golden eagle (*Aquila chrysaetos*) BEPA/SSC	Rolling foothills, mountains, sage-juniper flats, and desert.	Mountain regions of the Northern Hemisphere. Throughout California except the center of the Central Valley. Uncommon resident in San Diego County. As of 1981, the number of breeding pairs(38) within the western half of the County had decreased by 33% from 1928 levels.	BEPA and CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan are discountable because the species is an uncommon resident in San Diego County, and any impacts would be extremely small relative to the large range of the species. Also, the Plan preserves its habitats to the maximum extent practicable.	VIII
6	Canada goose (*Branta canadensis*) Regionally sensitive species	Fresh, emergent wetlands, moist grasslands, croplands, pastures, and meadows.	Alaska, Canada, northern U.S. Winters to northern Mexico. Central Valley, Salton Sea, and northeastern California. Abundant but localized winter visitor. Wintering populations have declined in San Diego County due to wetland habitat loss.	MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, the species has a somewhat broad distribution, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	II, III
7	Ferruginous hawk (*Buteo regalis*) SSC	Grasslands, sagebrush flats, desert scrub, low foothills surrounding valleys, and pinyon-juniper habitats.	Southwestern Canada and the western U.S. Winters in the southwestern U.S. and northern Mexico. Uncommon winter visitor.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan are discountable because the species is an uncommon winter visitor in San Diego County, and any impacts would be extremely small relative to the large range of the species. Also, the Plan preserves its habitats to the maximum extent practicable.	VIII

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	ANIMALS					
8	Swainson's hawk (*Buteo swainsoni*) CT	Juniper-sage flats, riparian areas, oak savannah, and grasslands.	Northwestern North America to northern Mexico. Winters to Argentina. Spring and fall transient in southern California. Uncommon breeding resident in northeastern California and the Central Valley. Uncommon spring migrant; very rare fall migrant.	CESA, CEQA, and MBTA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan are discountable because the species is an uncommon spring migrant and very rare fall migrant in San Diego County, and any impacts would be extremely small relative to the large range of the species. Also, the Plan preserves individuals and habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	VIII
9	Coastal cactus wren (*Campylorhynchus brunneicapillus*) SSC	Coastal sage scrub and maritime succulent scrub.	Southern Orange County south through San Diego County into northwestern Baja California, Mexico. San Diego County population estimated to be less than 300 pairs with highly disjunct distribution and small, fragmented populations.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless deemed necessary for emergencies or repairs.	I, IV
10	Western snowy plover (coastal) (*Charadrius alexandrinus nivosus*) FT/SSC	Sandy marine and estuarine shores.	Breeds throughout the western U.S.; Baja California, Mexico; the coastal southeastern U.S.; and the Bahamas. In winter, migrates to coastal areas and south to Central and South America. Common migrant, winter visitor, and localized breeding resident in San Diego County.	FESA, CEQA, and MBTA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves individuals and habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III, VII
11	Mountain plover (*Charadrius montanus*) SSC	Grasslands and plowed fields.	Breeds in the U.S. west of 95° W longitude in the Great Plains and Rocky Mountain states. Winters from the southwestern U.S. to Mexico, including the Baja California, Mexico. Common to very common, but extremely localized, winter visitor.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, the species has a somewhat broad distribution, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	II
12	Northern harrier (*Circus cyaneus*) SSC	Meadows, grasslands, open rangelands, desert sinks, and fresh and saltwater emergent wetlands.	Widespread throughout the temperate regions of North America and Eurasia. Uncommon to fairly common migrant and winter visitor, rare and local summer resident in San Diego County.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan are discountable because the species is an uncommon to fairly common migrant and winter visitor but a rare and local summer resident in San Diego County. Any impacts would be extremely small relative to the large range of the species. Also, the Plan preserves its habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	VIII
13	Reddish egret (*Egretta rufescens*) Regionally sensitive species	Brackish marshes, shallow, coastal habitats, and mangroves.	Breeds on southeast coast of the U.S.; east and west coasts of Baja California, Mexico; other parts of Mexico; and on some Carribean islands. Winters throughout its breeding range, but extends its range south to include Central America to El Salvador. A few reddish egrets (1-4 individuals) are typically found along the southern San Diego County coast. Most occurrences are in fall and winter. There are no breeding records for the County.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan are discountable because the species is found in very small numbers (1-4 individuals) in the fall and winter in San Diego County. Also, the Plan preserves its habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III
14	Southwestern willow flycatcher (*Empidonax traillii extimus*) FE/CE	Breeds in thickets of willows or other riparian understory, along streams, ponds or lakes, or in canyon drainage bottoms. Migrants may be located among any of the larger trees or shrubs in the County of San Diego but seem to prefer damp areas.	U.S. breeding range is so. California, Arizona, Utah, Nevada, New Mexico, and Texas. Small, breeding populations persist in major river valleys in San Diego County.	FESA, CESA, CEQA, and MBTA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves individuals and habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	V
15	American peregrine falcon (*Falco peregrinus anatum*) FE/CE	Open grasslands and scrublands, cliffs and steep terrain, sometimes urban areas. Often found along the coast or near lagoons and ponds where waterfowl gather.	Southern California as a rare visitor, primarily along the coast. Only one pair has bred in San Diego County since the 1950s. In winter, occurs along coastal areas and at reservoirs in the County.	FESA, CESA, CEQA, and MBTA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan are discountable because the species is a rare visitor along the coast in San Diego County, and any impacts would be extremely small relative to the large range of the species. Also, the Plan preserves individuals and habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	VIII

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	ANIMALS					
16	Bald eagle (*Haliaeetus leucocephalus*) (BEPA) FE/CE	Coasts, rivers, large lakes, mountains, and open country.	Alaska, Canada to southern U.S. Inland waters in winter in southern California. Uncommon winter visitor to San Diego County.	BEPA, FESA, CESA, CEQA, and MBTA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan are discountable because the species is an uncommon winter visitor in San Diego County. Also, the Plan preserves individuals and habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	VIII
17	Long-billed curlew (*Numenius americanus*) SSC	Rangeland, cultivated land, tideflats, beaches, and salt marshes.	Southwestern Canada, western U.S. Winters to Guatemala. Common migrant and winter visitor to San Diego County; no breeding records.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, the species has a somewhat broad distribution, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III
18	Belding's savannah sparrow (*Passerculus sandwichensis beldingi*) CE	Restricted to salt marshes around coastal lagoons that are dominated by pickleweed (*Salicornia* spp.)	Santa Barbara County south to El Rosario, Baja California, Mexico. Localized, permanent resident in San Diego County.	CESA and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves individuals and habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III
19	Large-billed savannah sparrow (*Passerculus sandwichensis rostratus*) SSC	Open fields, meadows, salt marshes, dunes, and shores.	Alaska, Canada to Guatemala. Winters to Honduras, West Indies. Scarce along the southern California coast.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan are discountable because the species is scarce along the southern California coast. Also, the Plan preserves its habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III
20	California brown pelican (*Pelecanus occidentalis californicus*) FE/CE	Open salt water, bays, and beaches.	West coast of the U.S. and Baja California, Mexico. Common to very common non-breeding visitor to San Diego County.	FESA, CESA, CEQA, and MBTA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves individuals and habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III, VII
21	White-faced ibis (*Plegadis chihi*) SSC	Freshwater marshes, irrigated land.	Western U.S. to Argentina. In San Diego County, uncommon migrant and winter visitor; rare in summer.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan are discountable because the species is an uncommon migrant and winter visitor and is rare in summer in San Diego County. Also, the Plan preserves its habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III
22	Coastal California gnatcatcher (*Polioptila californica californica*) FT/SSC	Coastal sage scrub.	Southern Los Angeles, Orange, western Riverside, and San Diego counties south into Baja California, Mexico. In 1990, Atwood estimated that approximately 1,819 to 2,262 pairs occurred in southern California.	FESA and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves individuals and habitat to maximum extent practicable and preserves corridors connecting habitat. It may also restore and reclaim habitat that may include the species.	I
23	Light-footed clapper rail (*Rallus longirostris levipes*) FE/CE	Saltwater and brackish marshes.	Central and southern California; Baja California, Mexico; and the Gulf of California. The total California population was estimated to be 235 pairs in 1991.	FESA, CESA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves individuals and habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III
24	Western bluebird (*Sialia mexicana*) Regionally sensitive species	Scattered trees; open, coniferous forests; and farms. In winter, brush and deserts.	Southern British Columbia and western U.S. to the mountains of central Mexico. Common to very common resident and winter visitor in San Diego County.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, the species has a somewhat broad distribution, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	VI

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	ANIMALS					
25	Western burrowing owl (*Speotyto cunicularia hypogea*) SSC	Open grasslands, prairies, farmlands, and airfields.	Southwestern Canada, western U.S. Uncommon and rapidly declining in California.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless deemed necessary for emergencies or repairs.	II, IV
26	California least tern (*Sterna antillarum browni*) FE/CE	Sea beaches, bays, large rivers, bars.	Temperate and tropical oceans. Winters south of the U.S. In San Diego County the number of nesting pairs was 500 in 1991.	FESA, CESA, CEQA, and MBTA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves individuals and habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III
27	Elegant tern (*Sterna elegans*) SSC	Shallow ocean waters, bays, and lagoons. Strictly associated with salt water.	Breeds on islands off Baja California, Mexico and near San Diego. Winters from Peru to Chile. Irregularly wanders north to San Francisco Bay. Abundant summer resident in the single nesting colony at the south end of the San Diego Bay.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III
28	Least Bell's vireo (*Vireo bellii pusillus*) FE/CE	Riparian woodlands.	Formerly common and widespread in California and northwestern Baja California, Mexico. Known to winter only in southern Baja California, Mexico. Over 460 breeding pairs or territorial males were documented in San Diego County in 1991.	FESA, CESA, CEQA, and MBTA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves individuals and habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	V
29	Thorne's hairstreak butterfly (*Mitoura thornei*) Regionally sensitive species	Closed-cone pine forest.	Restricted to the same distribution of the larval food plant, Tecate cypress (*Cupressus forbesii*). in three locations in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitat. The Plan also preserves habitat to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitat that may include the species.	VII
30	San Diego fairy shrimp (*Branchinecta sandiegoensis*) PE	Seasonally astatic pools which occur in tectonic swales or earth slump basins in patches of grassland and agriculture interspersed in coastal sage scrub and southern mixed chaparral vegetation.	Occurs throughout San Diego County.	FESA and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	IX
31	Salt marsh skipper (*Panoquina errans*) Regionally sensitive species	Tidelands and estuaries.	Santa Barbara County to the southern tip of Baja California, Mexico. Associated with nearly every coastal lagoon in San Diego County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	III, IV
32	Riverside fairy shrimp (*Streptocephalus wootoni*) FE	Seasonally astatic pools occurring in tectonic swales or earth slump basins in patches of grassland and agriculture interspersed in coastal sage scrub.	Known only from five vernal pools in western Riverside County in the vicinity of Temecula and Rancho California, from one pool on Otay Mesa in San Diego County, and from one pool at an undisclosed location in northern Baja California, Mexico.	FESA and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	IX
33	Coronado skink (*Eumeces skiltonianus interparietalis*) SSC	Grasslands, coastal sage scrub, open chaparral, pine oak woodland, and coniferous forests.	Southwestern California from Los Angeles County south into northwestern Baja California, Mexico. Also occurs on several islands off the Pacific coast including Los Coronados Islands. Relatively limited distribution.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I

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#	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	ANIMALS					
34	Stephens' kangaroo rat (*Dipodomys stephensi*) FE/CT	Grasslands, coastal sage scrub or sagebrush with sparse canopy cover, and disturbed areas.	Around San Jacinto Valley from Riverside County south to the vicinity of Vista in San Diego County. Geographic range is estimated to encompass 708,641 acres, which is unusually small for rodents, particularly kangaroo rats.	FESA, CESA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless deemed necessary for emergencies or repairs.	X
35	San Diego desert woodrat (*Neotoma lepida intermedia*) SSC	Favors xeric habitats. Coastal habitats include open chaparral and coastal sage scrub.	Restricted to the coastal slope of southern California, from San Luis Obispo County south into northwestern Baja California, Mexico. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I
36	Pacific little pocket mouse (*Perognathus longimembris pacificus*) FE/SSC	Near the ocean where the substrate consists of fine, alluvial sands, and the dominant vegetation is coastal sage scrub or weeds.	Historically recorded from Marina del Rey/El Segundo south along the coast to the Tijuana River Valley north of the international border in San Diego County. May occur at other localities. Only three currently recorded localities remain out of eight historic localities: Dana Point, Orange County and Marine Corps Base Camp Pendleton, San Diego County.	FESA and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless deemed necessary for emergencies or repairs.	I, IV
37	Northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*) SSC	Coastal sage scrub and weedy growth, often on sandy substrates.	Southwestern San Bernardino, western Riverside, eastern Los Angeles, and San Diego counties south into Baja California, Mexico. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I
38	Pallid San Diego pocket mouse (*Chaetodipus fallax pallidus*) SSC	Chamise-redshank and mixed chaparrals, sagebrush, desert wash, desert scrub, pinyon-juniper, and annual grassland .	Eastern Los Angeles, southwestern San Bernardino, central Riverside, eastern San Diego, and western Imperial Counties. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I, II
39	Dulzura pocket mouse (*Chaetodipus californicus femoralis*) SSC	Primarily associated with mature chaparral and is less common in open stands of this vegetation. Has been trapped in mulefat scrub.	Santa Margarita River south to northern Baja California, Mexico. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, V
40	Southern grasshopper mouse (*Onychomys torridus ramona*) SSC	Wide variety including various scrublands. May be associated with clumps of cactus or yucca.	Northern Los Angeles County along the coastal slope to extreme northwestern Baja California, Mexico. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I
41	Los Angeles pocket mouse (*Perognathus longimembris brevinasus*) SSC	Coastal sage scrub and sagebrush.	Los Angeles, southwestern San Bernardino, and western Riverside counties. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I
42	Jacumba pocket mouse (*Perognathus longimembris internationalis*) SSC	Sagebrush.	San Diego County. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitat. The Plan also preserves habitat to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitat that may include the species.	I
43	San Diego black-tailed jackrabbit (*Lepus californicus bennettii*) SSC	Coastal sage scrub, chaparral, grasslands, croplands, and open, disturbed areas provided there is at least some scrub cover present.	Southern Santa Barbara County, south on the coastal slope to the vicinity of San Quintin, Baja California, Mexico. Localities on the eastern edge of its range include Jacumba and San Felipe Valley in San Diego County. Relatively common in open areas in coastal southern California.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I, II

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TABLE 3.1 COVERED SPECIES LIST

#	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	ANIMALS					
44	Mountain lion (*Felis concolor*) Regionally sensitive species	Nearly all habitats.	In California, sea level to alpine meadows, except xeric regions of the Mojave and Colorado deserts not supporting mule deer (*Odocoileus hemionus*) populations. Relatively common and most abundant in riparian areas and brushy stages of most habitats.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	None
45	Southern mule deer (*Odocoileus hemionus fuliginata*) Game species	Coastal sage scrub, riparian and mountain forests, chaparral, grasslands, croplands, and open, disturbed areas provided there is at least some scrub cover present.	Southern Riverside County (Tahquitz Valley), south on the coastal slope to the vicinity of San Quintin, Baja California, Mexico. Relatively common along the coastal foothills of southern California.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	None
46	American badger (*Taxidea taxus*) SSC	Drier, open stages of most shrub, forest, and herbaceous habitats with friable soils.	Central and southwestern North America. Throughout most of California except the North Coast area. Widespread but thought to be declining in California.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	II
47	Arroyo southwestern toad (*Bufo microscaphus californicus*) FE/SSC	Restricted to rivers with shallow, gravelly pools adjacent to sandy terraces.	Formerly distributed from southern California to the northwestern coastal region of Baja California, Mexico. Most remaining populations occur within, or adjacent to, the Cleveland National Forest. Only 6 of the 22 extant populations south of Ventura are known to contain more than a dozen adults.	FESA and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves individuals and habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	V
48	Western spadefoot toad (*Scaphiopus hammondi*) SSC	Occurs primarily in grassland situations, but occasional populations occur in valley-foothill hardwood woodlands.	In California, throughout the Central Valley and adjacent foothills from Santa Barbara County south to the Mexican border. Usually quite common where it occurs.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I
49	Southwestern pond turtle (*Clemmys marmorata pallida*) SSC	Wetland habitats including freshwater marshes, creeks, ponds, and reservoirs.	Vicinity of Monterey south into northwestern Baja California, Mexico. Primarily west of the major mountain ranges in southern California, but there is a population along the Mojave River in San Bernardino County. Very few viable populations left south of Santa Barbara County.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	V
50	Orangethroat whiptail (*Cnemidophorus hyperythrus beldingi*) SSC	Coastal sage scrub, chaparral, edges of riparian woodlands, and washes; and in weedy, disturbed areas adjacent to these habitats.	Southern Orange County and southern San Bernardino County (Colton), south to the cape of Baja California, Mexico. Locally common.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I
51	San Diego banded gecko (*Coleonyx variegatus abboti*) Regionally sensitive species	Chaparral and coastal sage scrub in areas with rock outcrops.	Southern slopes of the San Gabriel Mountains of Los Angeles County, south throughout cismontane and coastal southern California into northwestern Baja California, Mexico. Also found on Cedros Island off the Pacific coast of Baja California, Mexico. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I

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#	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	ANIMALS					
52	Northern red rattlesnake (*Crotalus ruber ruber*) SSC	Chaparral, woodland, and arid habitats in rocky areas and dense vegetation.	Extreme southeastern Los Angeles County (Diamond Bar) into southern San Bernardino County and south into southern Baja California, Mexico. Relatively common in the foothill zone and on the desert slopes.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I
53	San Diego ringneck snake (*Diadophis punctatus similis*) Regionally sensitive species	Oak woodlands and canyon bottoms. Sometimes encountered in grassland, chaparral, and coastal sage scrub.	Southwestern San Bernardino County south along the coastal slope into northwestern Baja California, Mexico. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I
54	Coastal rosy boa (*Lichanura trivirgata roseofusca*) Regionally sensitive species	In or near rocky areas in coastal sage scrub, chaparral, and desert scrub.	Transverse Ranges in Los Angeles and San Bernardino counties south into northwestern Baja California, Mexico. It also ranges east to the lower desert slope. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I
55	San Diego horned lizard (*Phrynosoma coronatum blainvillei*) SSC	Coastal sage scrub, chaparral, open oak woodlands and open coniferous forests in the mountains.	Southern California, west of the deserts, and ranges south into northern Baja California, Mexico. Relatively common in foothill areas that contain large expanses of good habitat.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I
56	California red-legged frog (*Rana aurora draytonii*) PE/SSC	Dense shrubby, emergent riparian vegetation closely associated with deep, still, or slow moving water.	Central and southern California. Has been extirpated from 75% of its former range.	FESA and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	IV, V
57	Coast patch-nosed snake (*Salvadora hexalepis virgultea*) SSC	Primarily chaparral, but also coastal sage scrub and areas of grassland mixed with scrub.	Santa Barbara County south to northwestern Baja California, Mexico. Population information lacking.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	I
58	Two-striped garter snake (*Thamnophis hammondii*) Regionally sensitive species	Along permanent creeks, streams, vernal pools and along intermittent creeks. Occasionally found in chaparral or other habitats relatively far from permanent water.	Monterey County south through the coastal ranges into northwestern Baja California, Mexico. Rare or extirpated from many areas where it was formerly common.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I

STATUS
SSC = CDFG Species of special concern
CE = California endangered
CT = California threatened
CR = California rare
FE = Federally listed endangered
FT = Federally listed threatened
PE = Federally proposed endangered
PT = Federally proposed threatened
C1 = Enough data to support federal listing

List 1B = Rare and endangered in California and elsewhere
List 2 = Rare and endangered in California but more common elsewhere
List 3 = More information needed
List 4 = Limited distribution (a watch list)

R (Rarity)
1 = Rare but found in sufficient numbers and distributed widely enough that potential for extinction or extirpation is low at this time.
2 = Occurrence confined to several populations or one extended population.
3 = Occurrence limited to 1 or a few highly restricted populations or present in such small numbers that it is seldom reported.

E (Endangerment)
1 = Not endangered
2 = Endangered in a portion of its range
3 = Endangered throughout its range

D (Distribution)
1 = More or less widespread outside of California
2 = Rare outside California
3 = Endemic to California

ABBREVIATIONS
ACOE = U.S. Army Corps of Engineers
BEPA = Bald Eagle Protection Act
CDFG = California Department of Fish and Game
CEQA = California Environmental Quality Act
CESA = California Endangered Species Act
FESA = Federal Endangered Species Act
MBTA = Migratory Bird Treaty Act
NPPA = Native Plant Protection Act

MITIGATION
I. Scrub and chaparral species
II. Grassland species
III. Beach, marsh, and wetland species
IV. Narrow endemic plant and animal species
V. Riparian species
VI. Forest (woodland) species
VII. Open water species
VIII. Raptor species
IX. Vernal pool species
X. Stephens' kangaroo rat

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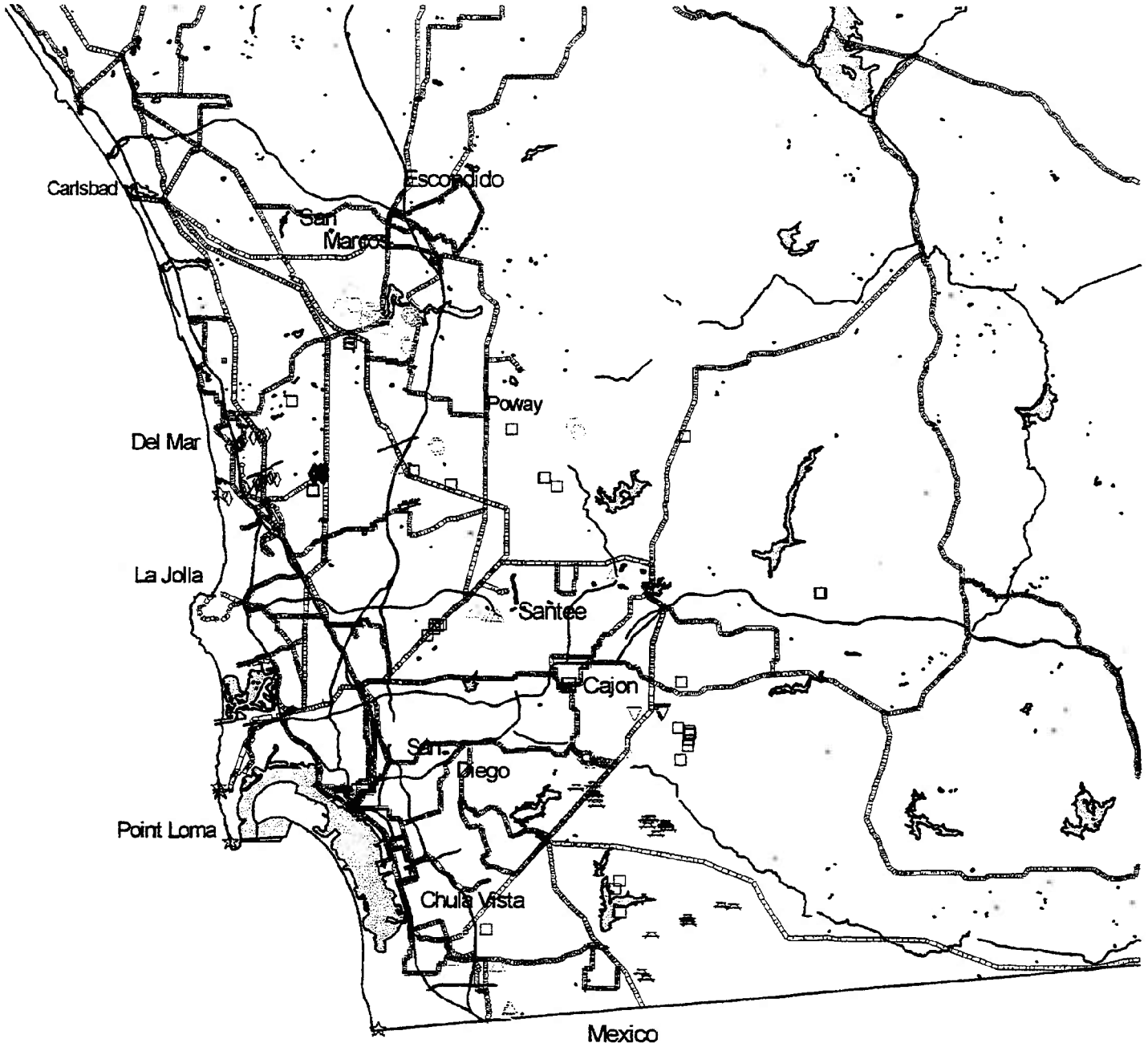
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SDG&E Subregional NCCP



10 0 Miles

MSCP Selected Sensitive Plants (Figure 3.1a)
- San Diego Thorn-Mint
- Shaw's Agave
- San Diego Ambrosia
- Del Mar Manzanita
- Otay Manzanita
- Dean's Milk Vetch
- Encinitas Baccharis
- SDG&E Major Transmission Lines
- Lakes
- Freeways
- San Diego County

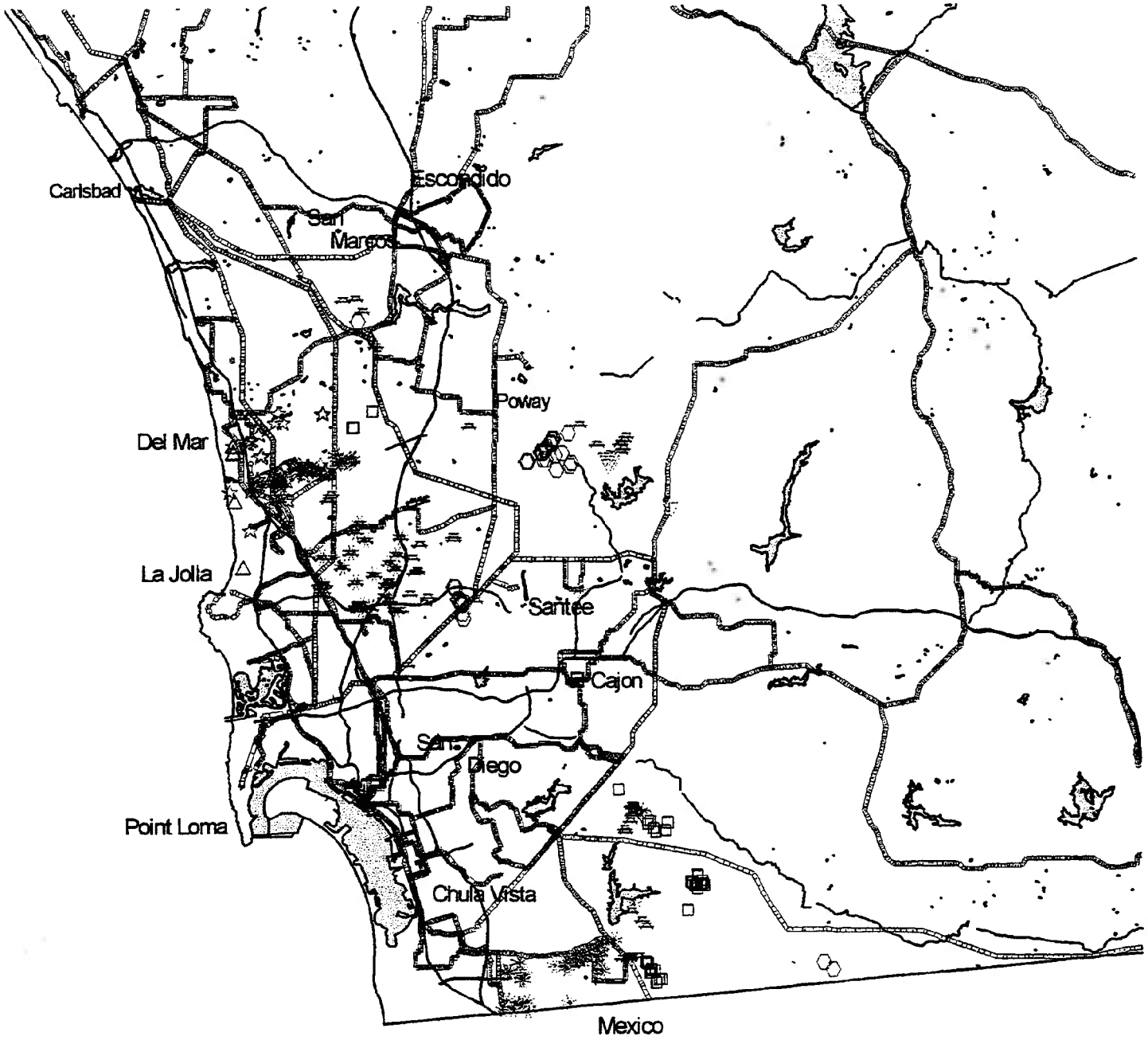
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N

FIGURE
3.1a

SDGE Subregional Natural Community Conservation Plan

SDG&E Subregional NCCP



10 0 Miles

MSCP Selected Sensitive Plants (Figure 3.1b)
- Orcutt's Brodiaea
- Dunn's Mariposa Lily
- Slender-Pod Jewelflower
- Lakeside Ceanothus
- Del Mar Mesa Sand Aster
- Short-Leaved Dudleya
- Sticky Dudleya
- San Diego Button-Celery
- SDG&E Major Transmission Lines
- Lakes
- Freeways
- San Diego County

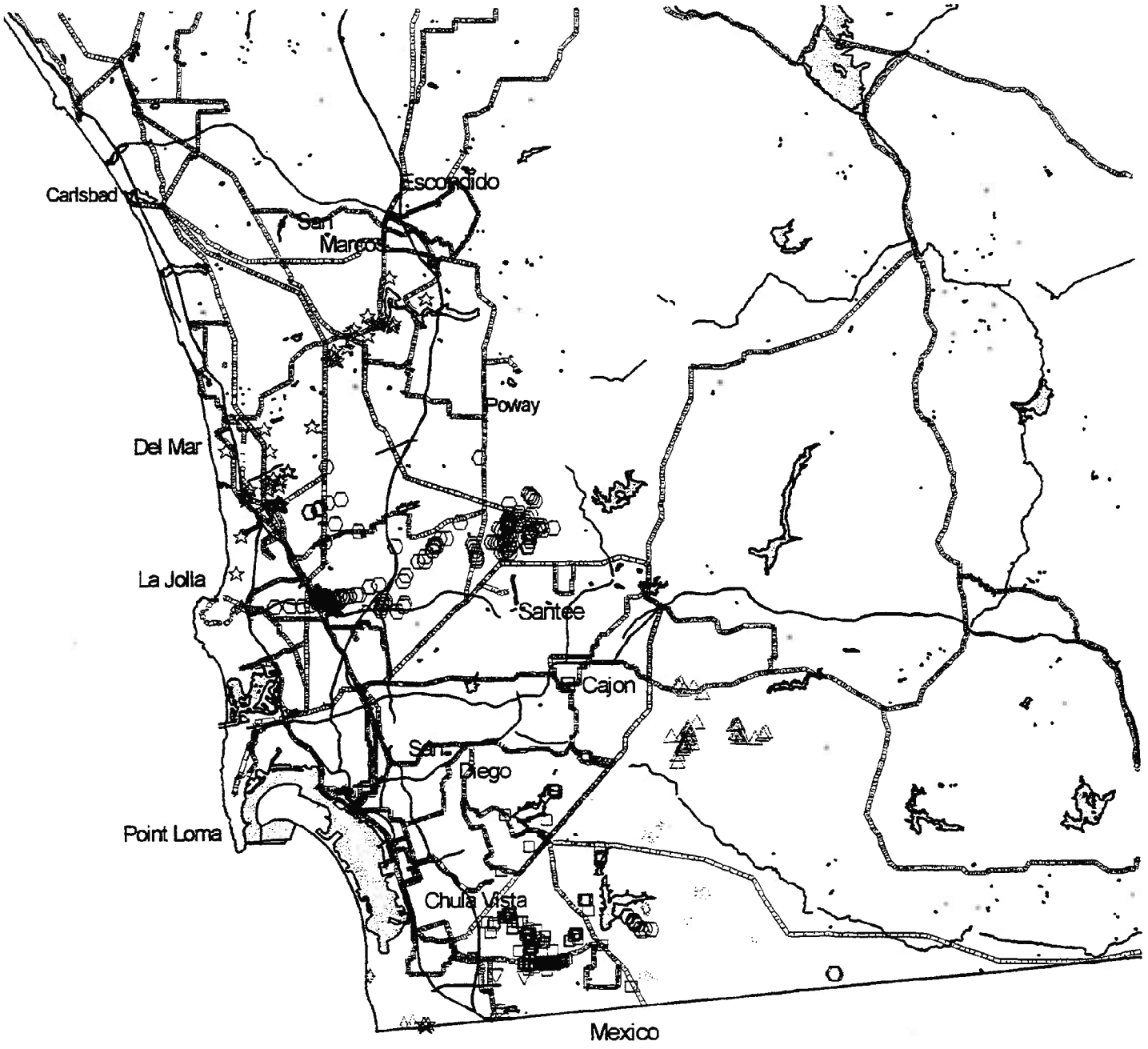
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N

FIGURE
3.1b

SDGE Subregional Natural Community Conservation Plan

SDG&E Subregional NCCP



10 0 Miles

MSCP Selected Sensitive Plants (Figure 3.1c)
- Wart-Stemmed Ceanothus
- Orcutt's Bird's-Beak
- Otay Tarplant
- Gander's Pitcher Sage
- Willowy Monardella
- Dehesa Bear Grass
- California Orcutt Grass
- Small-Leaved Rose
- SDG&E Major Transmission Lines
- Lakes
- Freeways
- San Diego County

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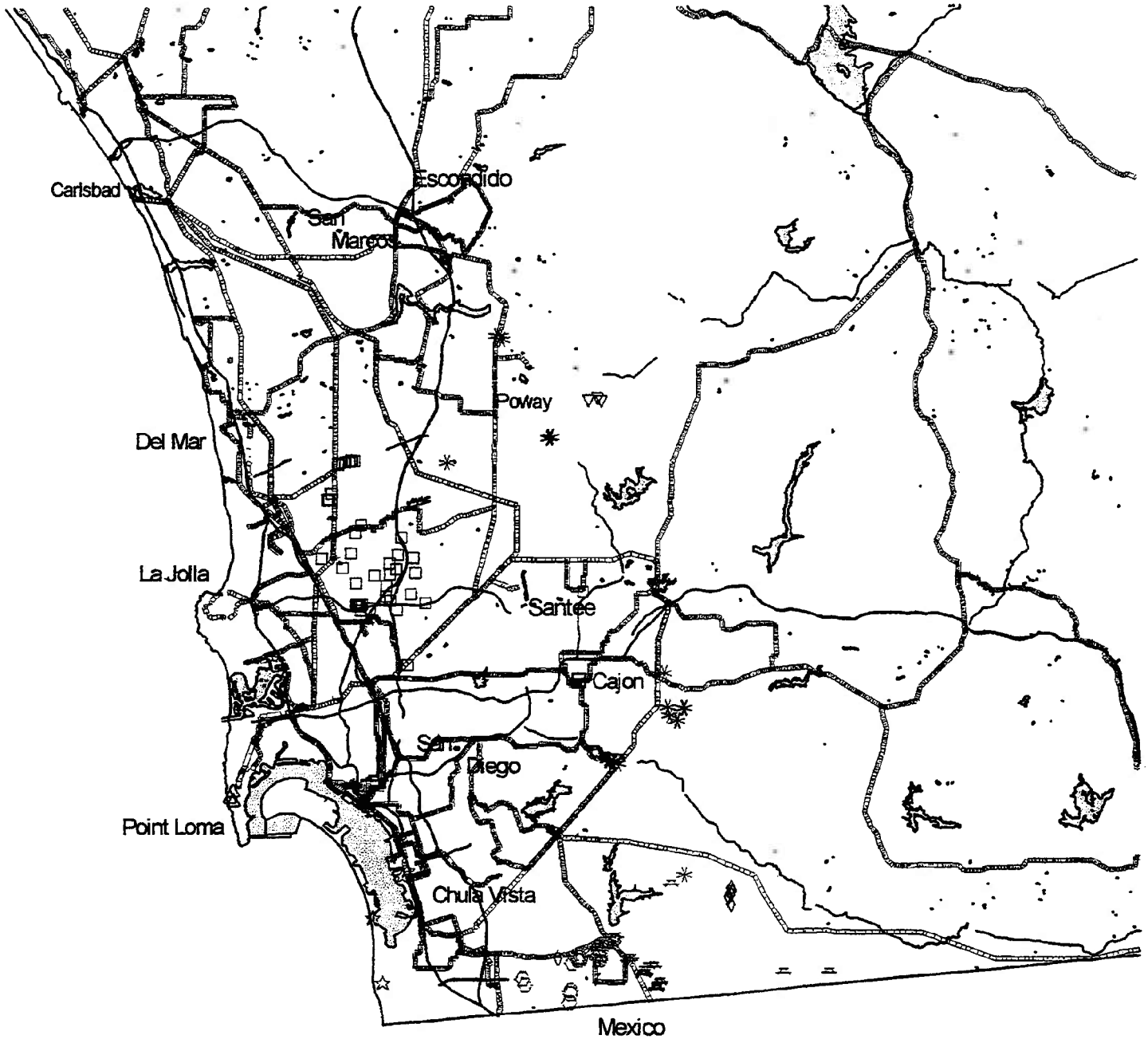
N

FIGURE
3.1c

SDGE

Subregional Natural Community Conservation Plan

SDG&E Subregional NCCP



10 0 Miles

MSCP Selected Sensitive Plants (Figure 3.1d)
- San Diego Mesa Mint
- Otay Mesa Mint
- Coast Wallflower
- Mexican Flannelbush
- Tecate Cypress
- Heart-Leaved Pitcher Sage
- Salt Marsh Bird's-Beak
- Palmer's Ericameria
- SDG&E Major Transmission Lines
- Lakes
- Freeways
- San Diego County

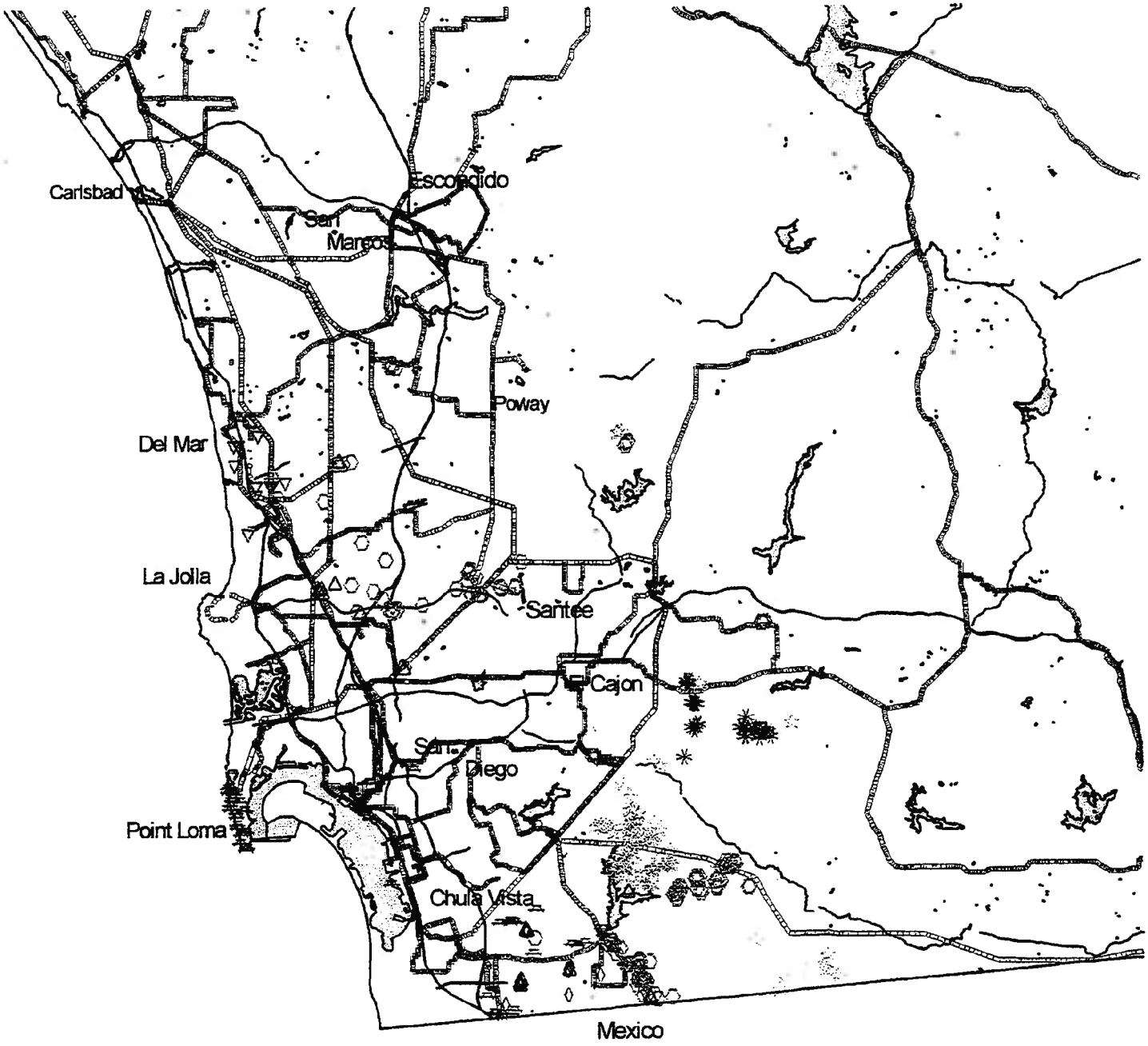
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N

FIGURE
3.1d

SDGE Subregional Natural Community Conservation Plan

SDG&E Subregional NCCP



10 0 Miles

MSCP Selected Sensitive Plants (Figure 3.1e)
- Gander's Butterweed
- San Diego Goldenstar
- Little Mousetail
- Prostrate Navarretia
- Snake Cholla
- Torrey Pine
- Narrow-Leaved Nightshade
- Parry's Tetracoccus
- SDG&E Major Transmission Lines
- Lakes
- Freeways
- San Diego County

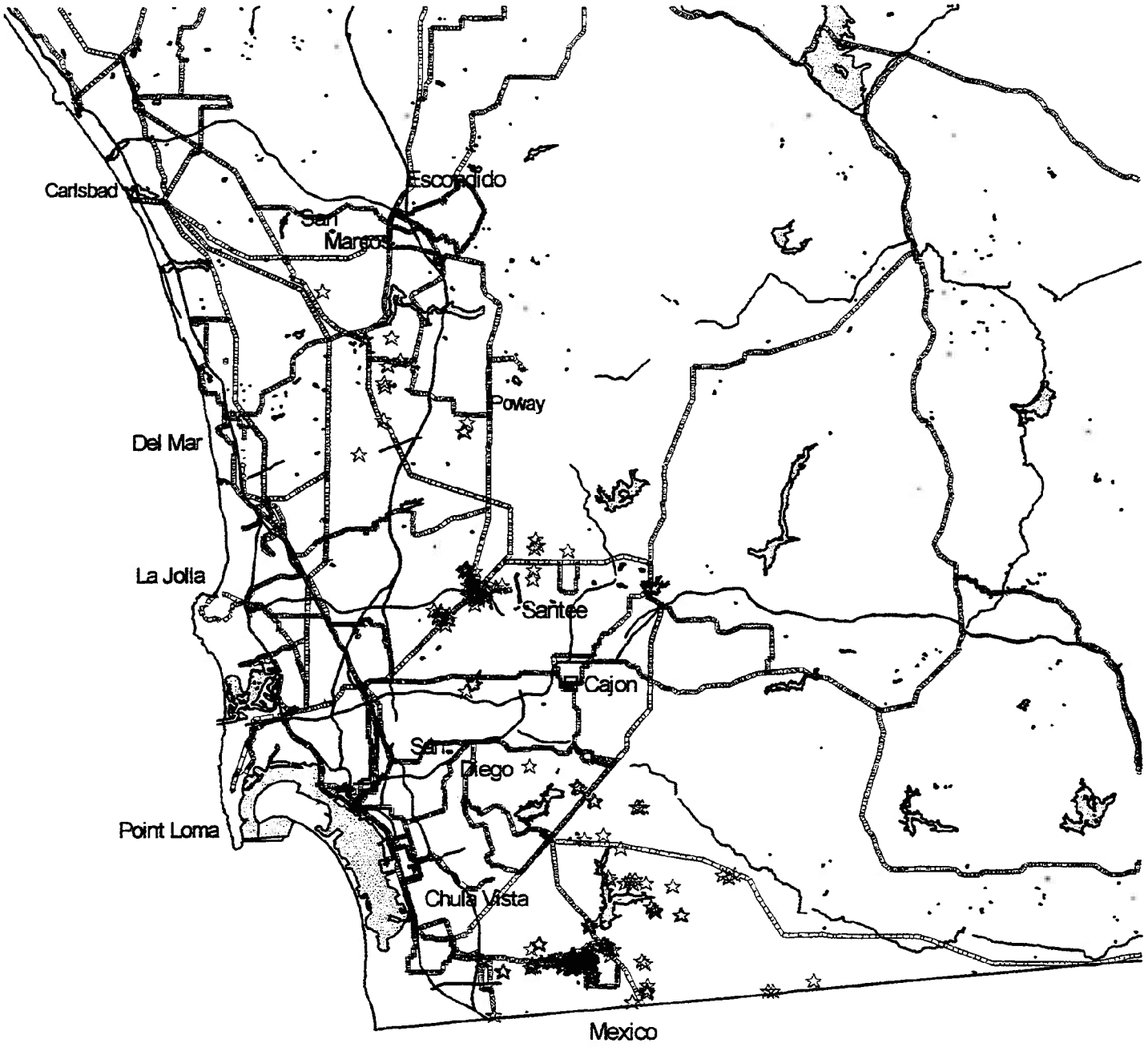
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N

FIGURE
3.1e

SDGE Subregional Natural Community Conservation Plan

SDG&E Subregional NCCP



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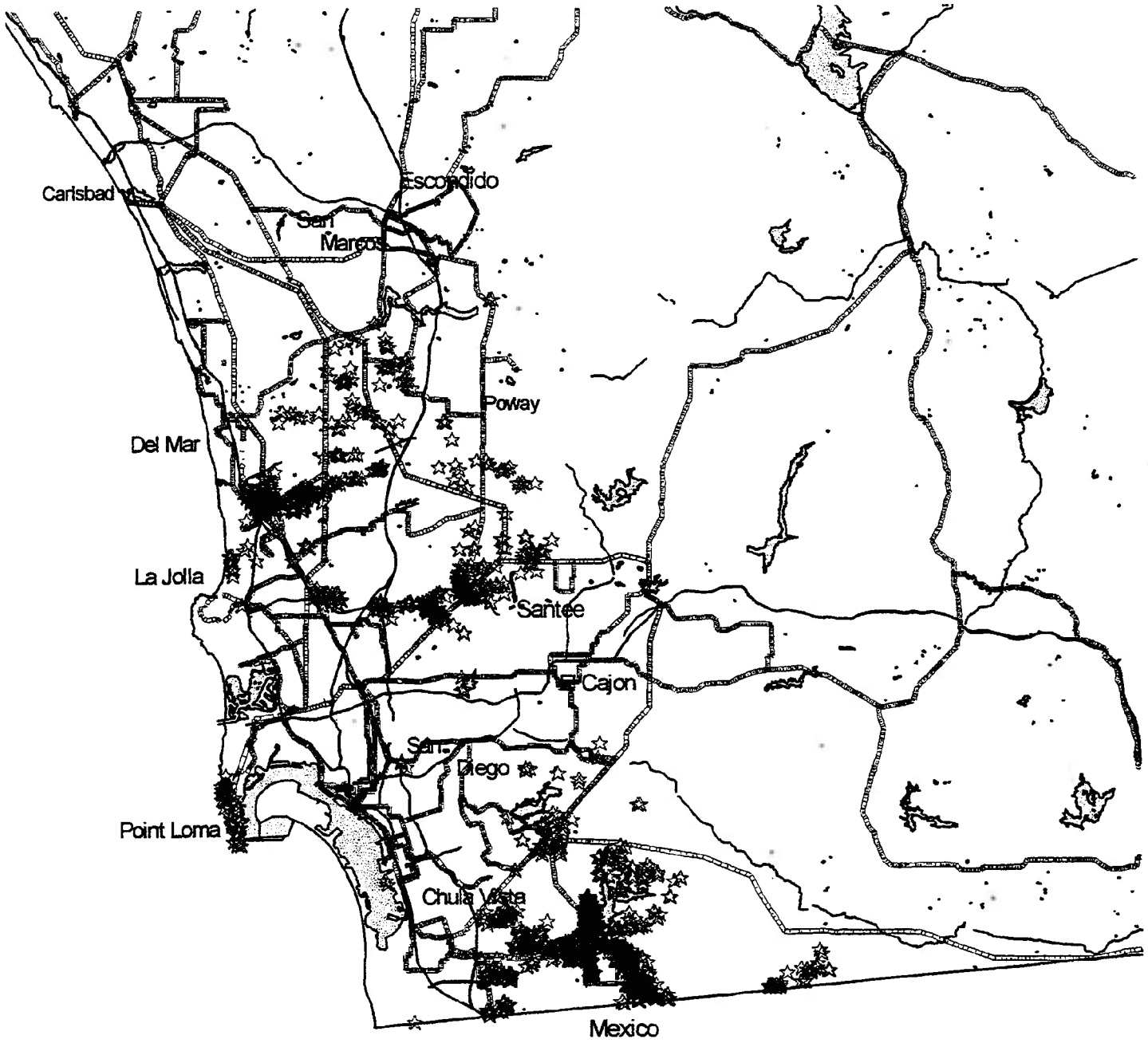
N

MSCP Selected Sensitive Plants (Figure 3.1f)
- Variegated Dudleya
- SDG&E Major Transmission Lines
- Lakes
- Freeways
- San Diego County

FIGURE
3.1f

SDGE Subregional Natural Community Conservation Plan

SDG&E Subregional NCCP



10 0 Miles

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N

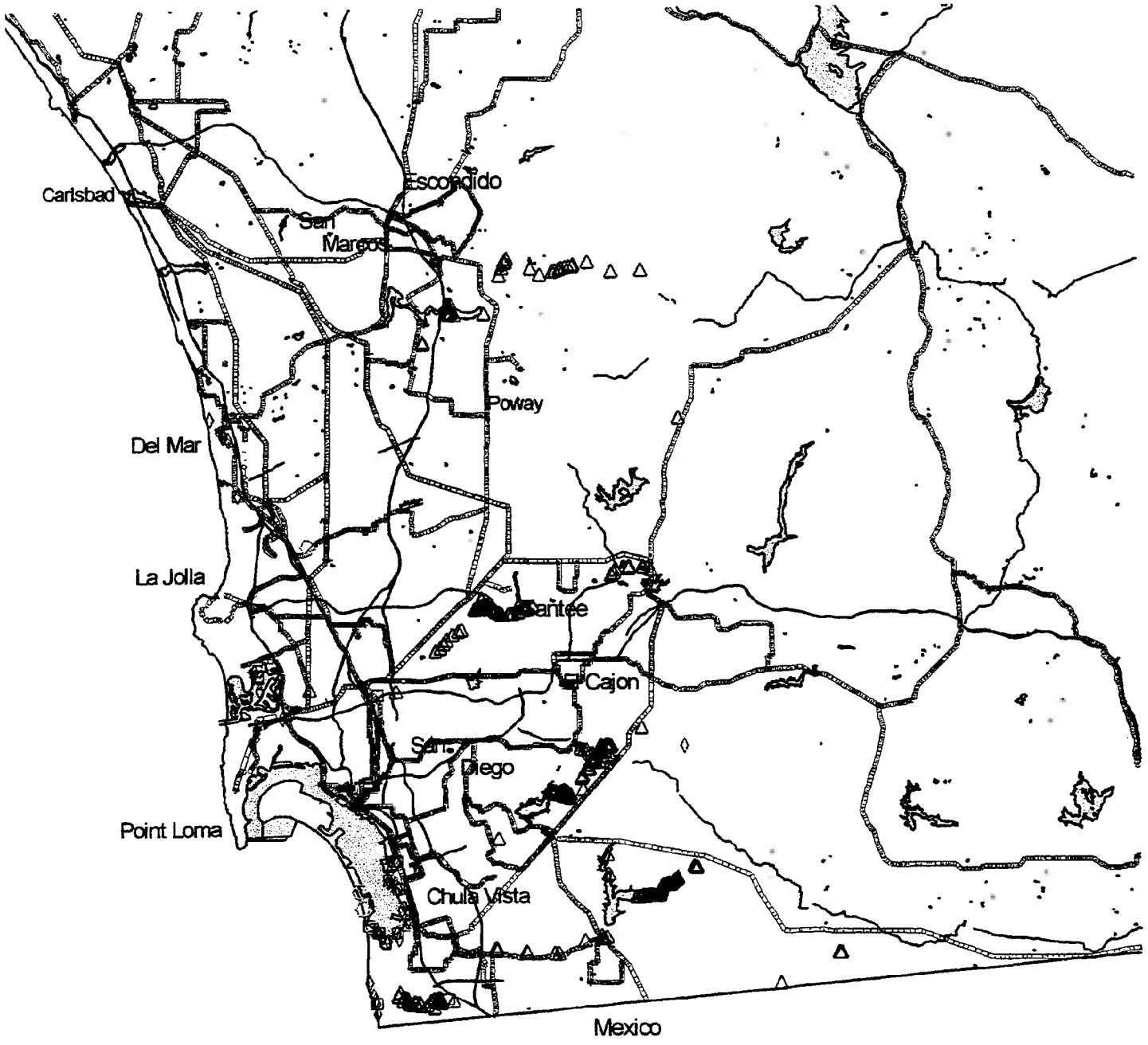
MSCP Selected Sensitive Plants (Figure 3.1g)
- San Diego Barrel Cactus
- SDG&E Major Transmission Lines
- Lakes
- Freeways
- San Diego County

FIGURE
3.1g

SDGE

Subregional Natural Community Conservation Plan

SDG&E Subregional NCCP



10 0 Miles

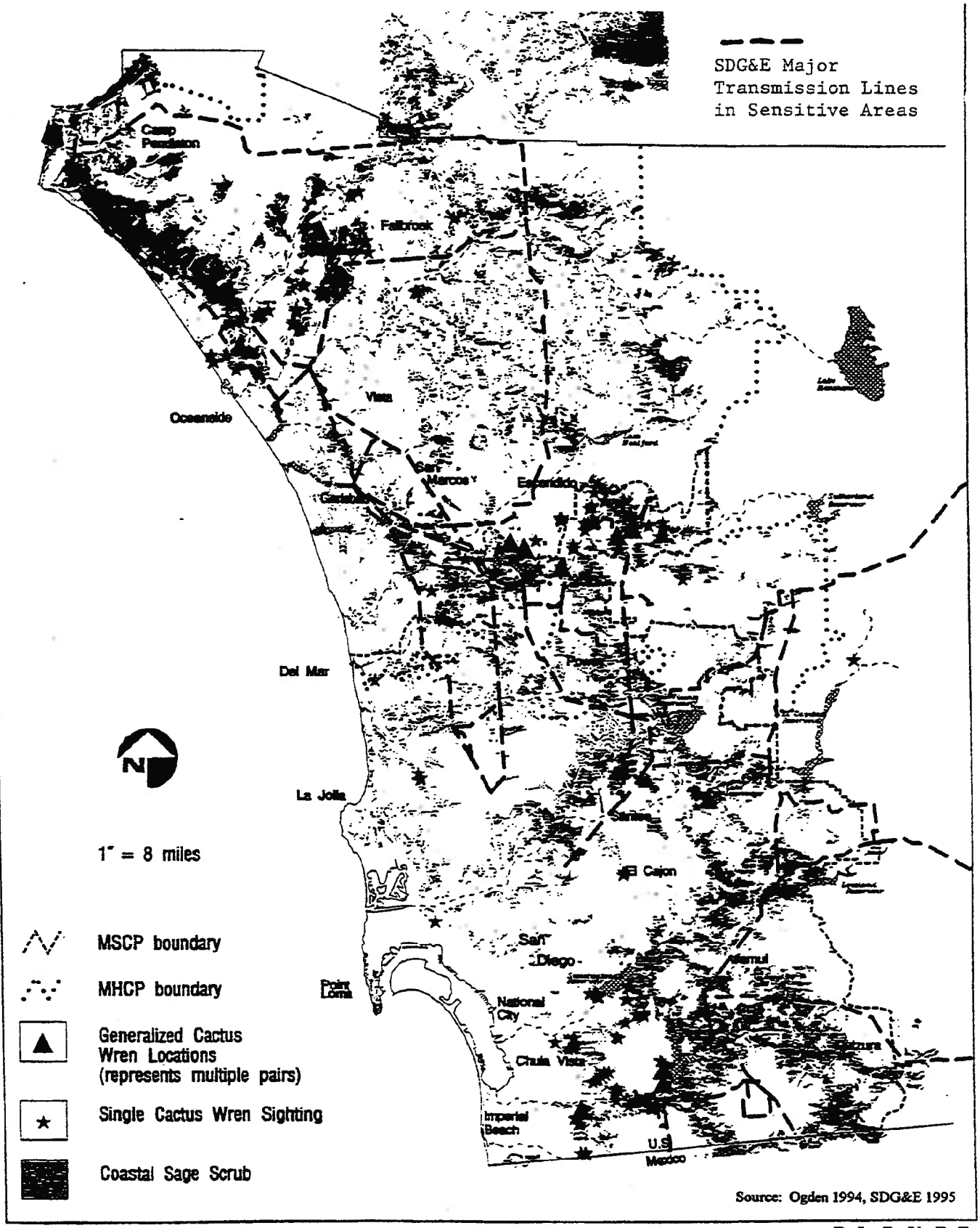
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MSCP Selected Sensitive (Figure 3.1h)
- Light-Footed Clapper Rail
- Western Snowy Plover
- Least Bell's Vireo
- Belding's Savannah Sparrow
- SDG&E Major Transmission Lines
- Lakes
- Freeways
- San Diego County

N

FIGURE
3.1h

SDGE Subregional Natural Community Conservation Plan



FIGURE

3.1i

Known Distribution of Coastal Cactus Wren
in San Diego County

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3.2 Impact Assessment

As a regional energy provider SDG&E has several roles. One of the roles is to be a developer. SDG&E must develop and maintain a region-wide network of gas and electric transmission, distribution and resource facilities. From the standpoint of capital investment, SDG&E is probably the largest developer in the SDG&E service territory.

Energy development, like all development, has impacts. However, it is important when reviewing this document that the reader does not confuse the impacts of energy development with typical commercial, industrial, and residential development. Typical development permanently removes large areas of native vegetation, changes the topography, and covers much of the developed area with impervious surfaces. Most of SDG&E's previous and future energy development occurs above or below the earth's surface with very small areas of permanent disturbance. Impacts from energy development include: narrow and unpaved access roads, habitat that continues to exist and grow in rights-of-way, energy facilities (except for generators) that are unoccupied and generate very little traffic, and little or no contribution to edge effects due to predatory pets or extensive human activity. Negative impacts which may occur are habitat fragmentation and provision of human access to remote areas leading to potential exotic species invasion and destruction of habitat.

Construction impacts associated with the development of energy facilities also have less impact than those of typical developments because (1) construction projects associated with development of energy facilities normally are completed over a period of days rather than months or years as with other development projects, and (2) construction activities

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themselves have less impact, for example, equipment and materials are often delivered by air, thereby minimizing ground disturbances.

Another significant difference between the development of energy facilities and typical development is that there is a greater degree of flexibility in siting and design when developing energy facilities. It is not to SDG&E's benefit to site and develop facilities in an environmentally insensitive manner. Doing so would not result in a measurable increase to company profits. Therefore, it is in the best interest of SDG&E, its rate payers, and shareholders for the company to adopt development and maintenance policies designed toward environmental protection and enhancement. SDG&E is also a resident of the service territory (has been for well over a century) and would like to continue to be a welcome one.

3.2.1 Take of Covered Species

SDG&E's Activities will likely result in the Take of Covered Species and impact their habitat when incidental to otherwise lawful activities and when conducted in full compliance with the terms and conditions of this Subregional Plan.

However, this Subregional Plan is intended to avoid incidents resulting in the Take of Covered Species whenever possible and to implement measures to minimize and mitigate any Take of Covered Species to the maximum extent possible. Events of Take occurring within the terms and conditions of this Subregional Plan will not appreciably reduce the likelihood of the survival and recovery of any Covered Species.

Take of certain Covered Species is to be avoided. (These species are indicated in the Covered Species Table 3.1.) Take authorizations for these so called narrow endemic species will be limited to emergencies and unavoidable impacts from repairs to existing facilities. For new projects, kill or injury of such animal species or destruction of such plants or their supporting habitat would not be covered by the Plan and Implementing Agreement.

3.2.2 Types of Take of Covered Species

3.2.1.1 Impacts to Individual Animals

The Take of protected individuals and impacts to other Covered Species will likely occur as a result of SDG&E's Activities. SDG&E's Activities, including its installation, use, maintenance and repair of its Facilities, are more fully described in Section 2. The Take of these individuals may occur in the form of harassment, death, or displacement.

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Of the aforementioned forms of Take of Covered Species and impacts to Covered Species, harassment may be the most common. Harassment of individuals of such species will occur as an unavoidable and unintentional consequence of conducting certain Activities and mitigation measures, such as human activity, the operation of machinery and equipment, and associated noise. Direct killing of or injury to individuals may result from their being struck by vehicles or equipment, or being crushed or trapped in their burrows. Displacement may occur when individual animals move away from long-term maintenance operations to surrounding areas and are forced to compete with animals in these areas for food and living space. Take of Covered Species due to these impacts will be eliminated, minimized or mitigated to the maximum extent possible utilizing the mitigation measures described in Section 7 of the Subregional Plan.

In certain situations, Take of certain species is authorized only under the rubric of operation and maintenance Activities. These situations typically involve potential impacts from Activities on endemic species having narrow ranges in areas *without* an approved regional conservation plan.

For example, Take of the Stephens' Kangaroo Rat (SKR) is only permitted for SDG&E in the Multiple Habitat Conservation Program (MHCP) planning area in northern San Diego County for operation and maintenance activities until the MHCP is approved. After that time, and provided that SKR is conserved within MHCP, Take for new construction Activities will be permitted under the terms of this Plan. This condition only applies to the SKR populations in San Diego County; Riverside County has an approved Take process and mitigation protocol. Furthermore, SDG&E's facilities in Riverside County already exist, and no new impacts are expected.

3.2.1.2 Impacts to Individual Plants

Areas known to contain Covered Species of plants have been delineated in preliminary sruveys for MSCP and MHCP and will be flagged to eliminate or reduce impacts during Activities in these areas. Impacts to individual plants will primarily result from urgent or emergency repair Activities. This Subregional Plan prescribes the implementation of mitigation measures such as specific restoration or reclamation. Unknown populations of Covered Species plants, naturally occurring or intentionally introduced, are expected to exist with the Subregional Plan Area and may also be impacted by SDG&E's Activities. Pre-activity

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surveys for Covered Species of plants will identify areas of potential impact, and implementation of the provisions for avoidance and/or revegetation as set forth in Section 7 of this Subregional Plan will reduce these impacts.

SDG&E's Geographic Information System (GIS) will contain sensitive species and habitat data to demonstrate sensitive working areas. The Environmental Surveyor will continue to add new data to GIS based on preactivity surveys.

Expansion of Miguel Substation:

SDG&E owns land within the boundaries of its Miguel Substation property adjacent to the Sweetwater Reservoir on which significant populations of Otay Tarplant *"Hemizonia conjugens"* are found. Expansion plans for the substation could threaten about 1,000 - 2,000 of the approximately 12,000 individuals of the Tarplant population on the SDG&E property. Due to the rapidly changing nature of the electric industry, it is impossible to predict with complete certainty how the substation will be expanded, or even if it will become necessary. SDG&E has committed that impacts to sensitive species like the Tarplant, however, will be avoided to the extent possible.

Figure 10a shows the existing footprint of the substation development areas, with the biological resources indicated adjacent to the substation pads. Also outlined is one expansion scenario, the configuration of which is largely determined by the geometry of the existing equipment. Any impacts to the Tarplant populations due to an expansion would be minimized to the extent possible. Should impacts be necessitated, they would be mitigated with the set aside of a nearby area of Tarplant within the Miguel Substation property at a ratio of 2:1. The remaining Tarplant would be retained for mitigation use at a later date.

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FIGURE **10a**

SENSITIVE FLORA

Hc	Otay Tarplant (*Hemizonia conjugens*)
Ac	California Adolphia (*Adolphia californica*)
Dv	Variegated Dudleya (*Dudleya variegata*)
Ja	Spiny Rush (*Juncus acutus* ssp. *leopoldii*)
Fv	San Diego Barrel Cactus (*Ferocactus viridescens*)
Vl	San Diego Sunflower (*Viguiera laciniata*)
Hp	Palmer's Grapplinghook (*Harpagonella palmeri*)

*Note: Subscript indicates Approx. # of Plants

POTENTIAL SUBSTATION PAD

EXISTING SUBSTATION PADS

1" = 400'

CITY OF CHULA VISTA
VICINITY MAP

SOUTH BAY PKWY
SWEETWATER RD
BONITA RD
CENTRAL AVE
SAN MIGUEL RD
SDG&E MIGUEL SITE
NO SCALE

SDG&E MIGUEL SUBSTATION SITE

Subregional Natural Community Conservation Plan

SDGE

3.2.2.2 Impacts to Habitat

SDG&E's Activities will likely result in some impacts to the habitats of Covered Species. Destruction of habitat, including blading or scraping, excavation, and erosion, along with fragmentation and human access to restricted areas, will likely occur in some areas as a result of SDG&E's Activities. Modification of habitat may reduce the prey base or other biological resources for Covered Species and thereby affect an individual's ability to survive. Implementation of the mitigation measures in Section 7.1 will avoid or reduce these impacts to the maximum extent possible.

3.2.2.3 Duration and Intensity of Impacts

The duration and intensity of impacts to Covered Species will vary depending on the location and type of Activity being conducted. Some Activities will result in occasional harassment to individuals while others may result in greater impacts such as the killing of individuals or permanent habitat loss within the Subregional Plan Area. These impacts may be expected to occur throughout the year and may occur within any or all of the Subregional Plan Area.

For example, Activities such as the installation, use, maintenance or repair of Facilities may cause temporary harassment of individuals, while grading and clearing of electric substation pads, gas facilities, or access roads may result in permanent disturbance. Most Activities will allow a majority of Covered Species to re-occupy habitat after the completion of installation, maintenance and repair of a Facility and during its use (e.g. transmission line).

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4 Land Use

This section of the Subregional Plan discusses existing and proposed land use activities and policies guiding SDG&E Activities within the Subregional Plan Area.

4.1 Existing Land Use Activities

Existing Land Uses
Existing land use activities on SDG&E owned property, easements, and rights-of-way include installation, operation, maintenance and repair of SDG&E Facilities.

Although a good portion of SDG&E's easements are located within urbanized areas, many large easement corridors cross through and connect biologically sensitive and diverse areas. In addition, a number of substation and gas regulator sites adjoin or contain valuable native habitats. This Subregional Plan addresses only property owned by SDG&E, SDG&E easements and rights-of-way, and Activities within biologically sensitive areas.

4.1.1 Electric Distribution Easement Corridors

These easements are typically 12' in width or narrower. Facilities consists of power poles located in the center of the easement with attachments such as guy anchors, circuit switches, stub and anchors, wires and communication cables. The total percentage of the above ground improvements in the easement area is less than 1% over an easement 200' in length. Access routes to these Facilities are not usually maintained, enabling the habitat to recover.

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4.1.2 Electric Transmission Easement Corridors

These easements are typically 20' in width or greater. Facilities may consist of power poles, two-pole structures, steel poles or lattice steel towers. 20'-wide corridors contain a single pole line, while corridors greater than 100' in width could contain as many as five individual transmission lines. Due to the greater span distance between structures, above ground improvements are approximately less than 5% of the easement area. Access to these improvements is normally provided via access roads.

4.1.3 Gas Transmission Easement Corridors

These easements are normally 40' in width or narrower. Above ground improvements are minor and consist of valve boxes, cathodic stations, pipeline identification markers and leak detection devices. Above ground improvements are approximately less than 1% of the easement area. Access to these improvements is provided via access roads.

4.1.4 Electric Substations and Gas Regulator Stations.

These Facilities are located along or at the terminus of transmission easement corridors and are usually surrounded by landscaped areas or as open space areas. It is essential for safe and reliable service that access roads be maintained in a condition which assures that these Facilities can be operated, as necessary, on a 24-hour basis.

4.2 Proposed Land Uses

Forecasting the need, location and exact nature of future energy projects is accomplished by interpreting the projected growth plans from the various local and regional agencies. SDG&E identifies future "load centers" based on the locations, densities, and types of growth indicated in general plans and population forecasts. The current system design of SDG&E's energy network is a response to those plans and forecasts. Many rights-of-way and substations were purchased with space for expansion in the interest of serving future "load centers" that could be predicted from agency plans.

Major preservation plans, currently being prepared under NCCP legislation, will affect the existing growth forecasts to the extent that significant shifts in load center size and location are expected. The results will dictate a reevaluation of the system design needed to serve this region. Some rights-of-way and substations that were intended for expansion may be fully utilized. Existing urban areas may now need to be served with additional utility improvements to accommodate development intensification.

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Therefore, SDG&E will not be able to accurately predict the extent of these "load center" shifts until the various preservation plans are completed and agencies modify their growth plans to reflect new patterns of growth and preservation. This Subregional Plan assumes that San Diego will continue to grow, but does not assume where the growth will occur. However, the plan does assume that growth will mean expansion of the energy system. The predictions pertaining to miles of gas and electric transmission lines, number of substations, and amounts of other energy facilities have been based on historical data.

Each new SDG&E project will be subject to CEQA and, if there is federal involvement, NEPA. Exact impacts and mitigation will be determined at that time. At this time, the plan only estimates disturbances to habitat based on past experiences. However, those preparing this plan have estimated that more mitigation than is necessary is being provided to prevent a shortfall as projects are needed.

This Subregional Plan may be amended by SDG&E when General Plans in the region are updated. At that time, the company can better predict what kinds of facilities will be needed and where to serve future growth areas.

In a limited number of cases, there are existing transmission corridors capable of accommodating additional electric and gas transmission facilities. These transmission corridors are shown in fluorescent green on Figure 11a. The vacant positions in Orange County are attached as Figure 11b.

4.3 Projected Grading Disturbances

SDG&E has estimated a total of 124 acres of both temporary and permanent grading disturbances over the next 25 years. Section 4.4 discusses how this calculation was made. It is important to note that not all of this acreage disturbance would occur within habitats considered native, sensitive, or slated for protection. Nevertheless, this estimate should be considered valid because it covers both native and disturbed areas, and as a result reflects the worst case scenario. Specific estimates of native habitat disturbances can only be quantified through individual review of each SDG&E Activity just prior to its occurrence.

4.4 Methodology for Estimating Grading Disturbance

The estimate for total grading disturbances was based on projecting 7 typical SDG&E activities over the course of 25 years. Estimates of individual grading disturbances were based on previous experiences by SDG&E.

4.4.1 New Substations

Approximately 8 acres of permanent grading disturbances may result from the construction of four new electric distribution substations. Of the

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estimates provided, this is the only one in which grading disturbance over native habitat is probable. Individually, each substation could impact 2 acres of habitat.

The typical substation site is 4.5 acres in size. Of this amount, up to 2 acres accommodate improvements for substation transformers, control house racks, fencing, roads, and transmission feed structures. The remaining land is devoted to setbacks, landscaping, open space access, and fire breaks where required. Figure 12 depicts the typical layout for each substation.

4.4.2 New Electric Transmission Lines Requiring New Rights-of-Way

Approximately 35 acres of grading disturbances may result from the construction of 7 new transmission lines. This acreage amount is the result of each new line requiring an entirely new right-of-way corridor and associated access road system. The above figure represents the aggregate of two different types of new transmission lines. Each type is described as follows:

- New electric transmission, steel: 3 new transmission lines would be supported by either steel lattice towers or steel poles. Each new line would typically require a new right-of-way 100' in width and 4 miles in length. Each would begin and terminate at different substations or at existing transmission lines. Typical ground disturbances for each line would include grading 18 structure sites (25' x 100' each), 2.4 miles of 12' wide access road and 2 temporary wire pulling pads (50'x 200' each). Figure 13 depicts this configuration.

- New electric transmission, wood: 4 new transmission lines would be supported by wood poles. Each new line would typically require a new right-of-way 100' in width and 4 miles in length. Each would begin and terminate at different substations or at existing transmission lines. Typical ground disturbances for each line would include grading 60 structure sites (20' x 20'), 2.4 miles of 12' wide access roads and 4 temporary wire pulling pads (50' x 200' each). Figure 14 depicts this configuration.

  Note: New access roads do not typically traverse the entire right-of-way because of impassable terrain and the use of existing access roads.

4.4.3 New Electric Transmission Lines Within Existing Rights-of-Way

Approximately 23 acres of grading disturbances may result from the construction of 10 new transmission lines placed within existing rights-of-way. This acreage amount is the result of each new line be able to utilize existing access road infrastructure. The above figure represents the

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aggregate of two different types of new transmission lines placed within existing rights-of-way. Each type is described as follows:

- New electric transmission, steel: 4 new transmission lines would be supported by either steel lattice towers or steel poles. Each new line would typically utilize an existing right of way that is 100' in width and 4 miles in length. Each would begin and terminate at different substations or at existing transmission lines. Typical ground disturbances for each line would require the grading of 18 structure sites (25' x 100' each), .57 miles of 12' access roads and 2 temporary wire pulling pads (50' x 200' each). Figure 15 depicts this configuration.

- New electric transmission, wood: 6 new transmission lines would be supported by wood poles. Each new line would utilize an existing right-of-way that is 100' in width and 4 miles in length. Each would begin and terminate at different substations or at existing transmission lines. Typical ground disturbances for each line would include grading 60 poles sites (20' x 20' each), .57 miles of 12' wide access roads and 4 temporary wire pulling pads (50' x 200'). Figure 16 depicts this configuration.

  Note: New access roads do not typically traverse the entire right-of-way because of impassable terrain and the use of existing access roads.

4.4.4 Transmission Line Reconductoring

Approximately 11 acres of grading disturbances may result from the reconductoring (replacement of wire) of 16 existing transmission lines. Most of this disturbance is the result of creating pulling pads for wire spool trucks. The above figure represents the aggregate of two different types of transmission lines. Each type is described as follows:

- Transmission Line Reconductoring, steel: 8 transmission lines supported by steel lattice towers or steel poles may be reconductored. Each line would typically be within an existing right-of-way 100' in width and 4 miles in length. Each would begin and terminate at different substations or existing transmission lines. No new access roads or tower sites would be required. Typical ground disturbances for each line would be limited to temporary establishment of 2 wire pulling sites (50' x 200' each). Figure 17 depicts this configuration.

- Transmission Line Reconductoring, wood: 8 transmission lines supported by wood poles may be reconductored. Each line would be within an existing rights-of-way 100' in width and 4 miles in length.

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Each would begin and terminate at different substations or at existing transmission lines. No new access roads or poles sites would be required. Typical ground disturbances for each line would include establishment of 4 wire pulling (50' x 200' each). Figure 18 depicts this configuration.

4.4.5 Individual Minor Repairs, Overhead Electric Transmission or Distribution

Approximately 20 acres of grading disturbances may result from 240 various minor operational construction and maintenance repairs. Generally, these activities will occur within existing rights-of-way that contain both electric distribution and transmission facilities.

A typical example of an incident might be the replacement of a wooden power pole knocked over by high winds. Repair requirements would require grading to accommodate a new access road (150' x 12') to the site and temporary construction pad (40' x 40') for repair and installation of the replacement pole. Figure 19 depicts the typical configuration of an individual repair incident.

4.4.6 Gas Line Repairs

Approximately 19 acres of grading disturbances may result from 3 types of gas line repairs involving leaks, erosion and relocations. The above acreage is an aggregate of 3 types of repairs described as follows:

- Gas Line Leak Repair: 5 leak repair incidents are projected. Construction crews would excavate an area around the pipe so that a sleeve could be placed over the leak. The typical trench would be 10' x 100' and would be surrounded by a temporary construction area of 50' x 200'. Figure 20 depicts the typical configuration of an individual leak repair incident.

- Pipeline Relocation: 2 relocations are projected. Relocations due to pipeline failure are rare. A new pipeline alignment and necessary construction equipment would require a temporary construction area of 50' x 300'. Figure 21 depicts the typical configuration of an individual pipeline relocation.

- Gas Line Erosion Repair: 25 repair incidents are projected. These repairs are usually the result of streams eroding the earth from around pipelines and leaving them dangerously exposed. Typical improvements require an area of 50' x 100' so that unwanted fill material can be removed and replaced with recompacted material, erosion control blankets and or protective rip rap rock. An additional

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temporary construction area of 150' x 200' would surround the improvement area and would be used for grading equipment, trenching machines, cranes, crew trucks and storage. Figure 22 depicts the typical configuration of an individual gas line erosion repair.

4.4.7 New Gas Transmission

Approximately 8 acres of grading disturbances may result from the construction of one or more new gas transmission lines. This acreage amount is the result of the need for entirely new right-of-way corridor and associated road system.

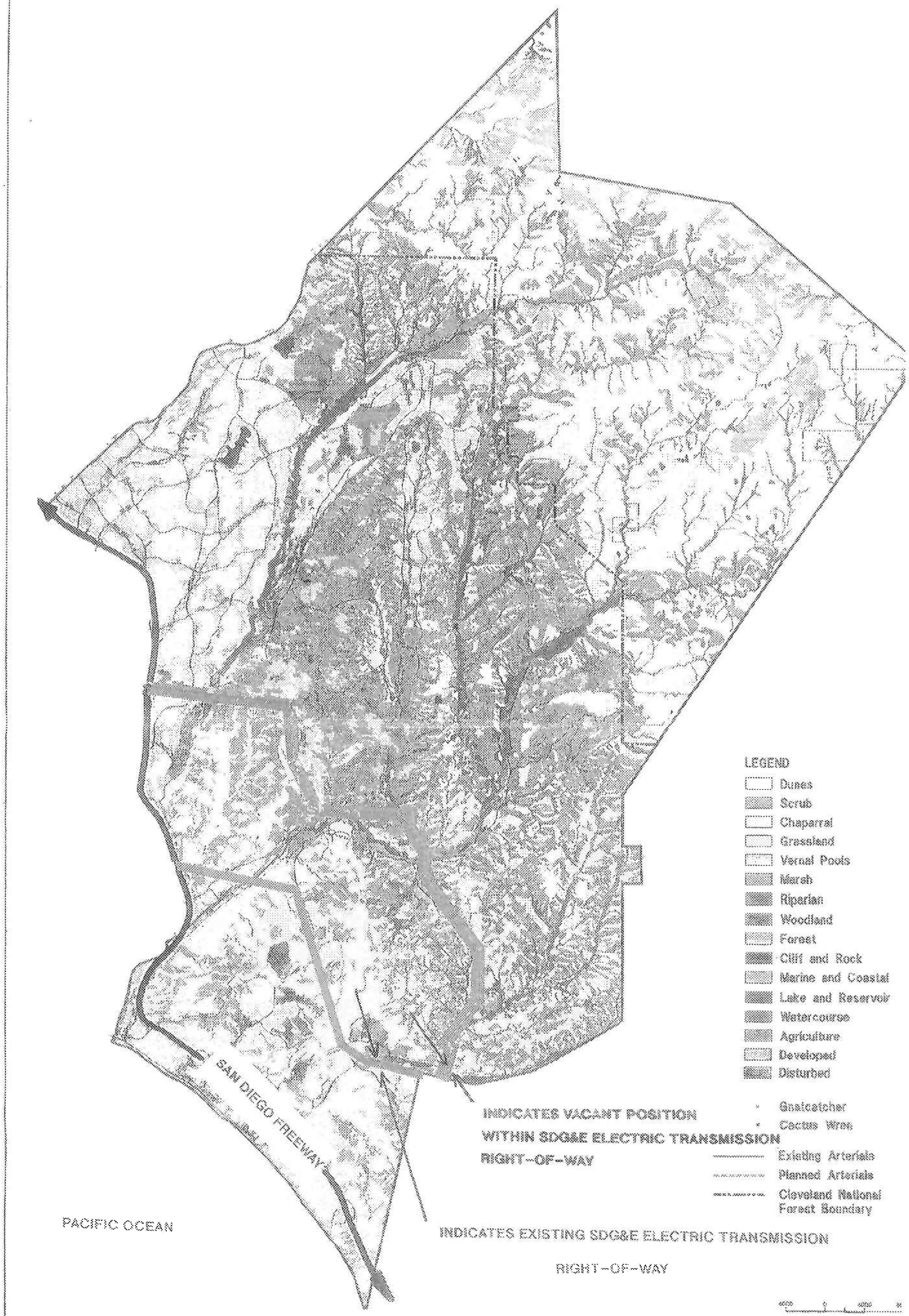
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SDG&E Electric Transmssion System Vacant Positions in Transmission Corridors

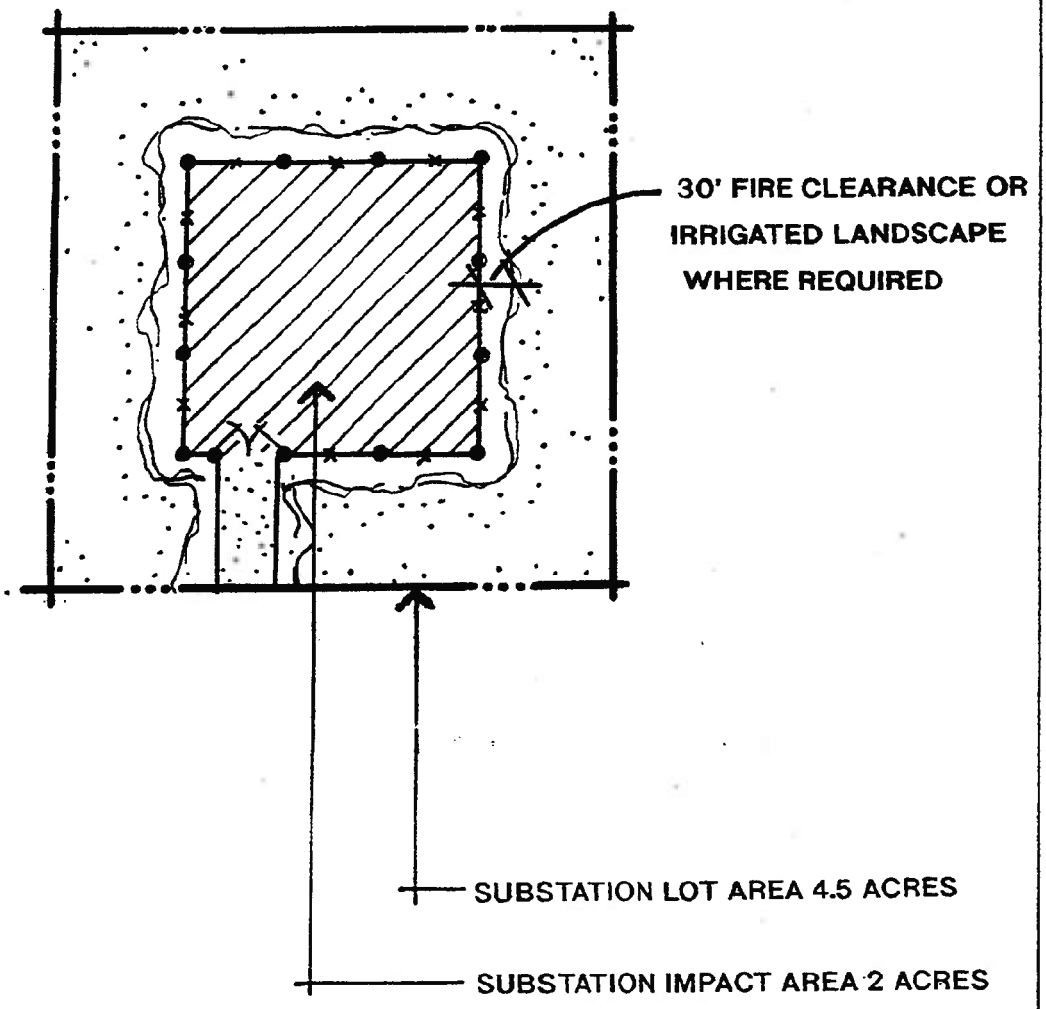
Green Lines Are Vacant Positions

FIGURE 11a



SDG&E Electric Transmission System Vacant Positions in Transmission Corridors (Orange County)

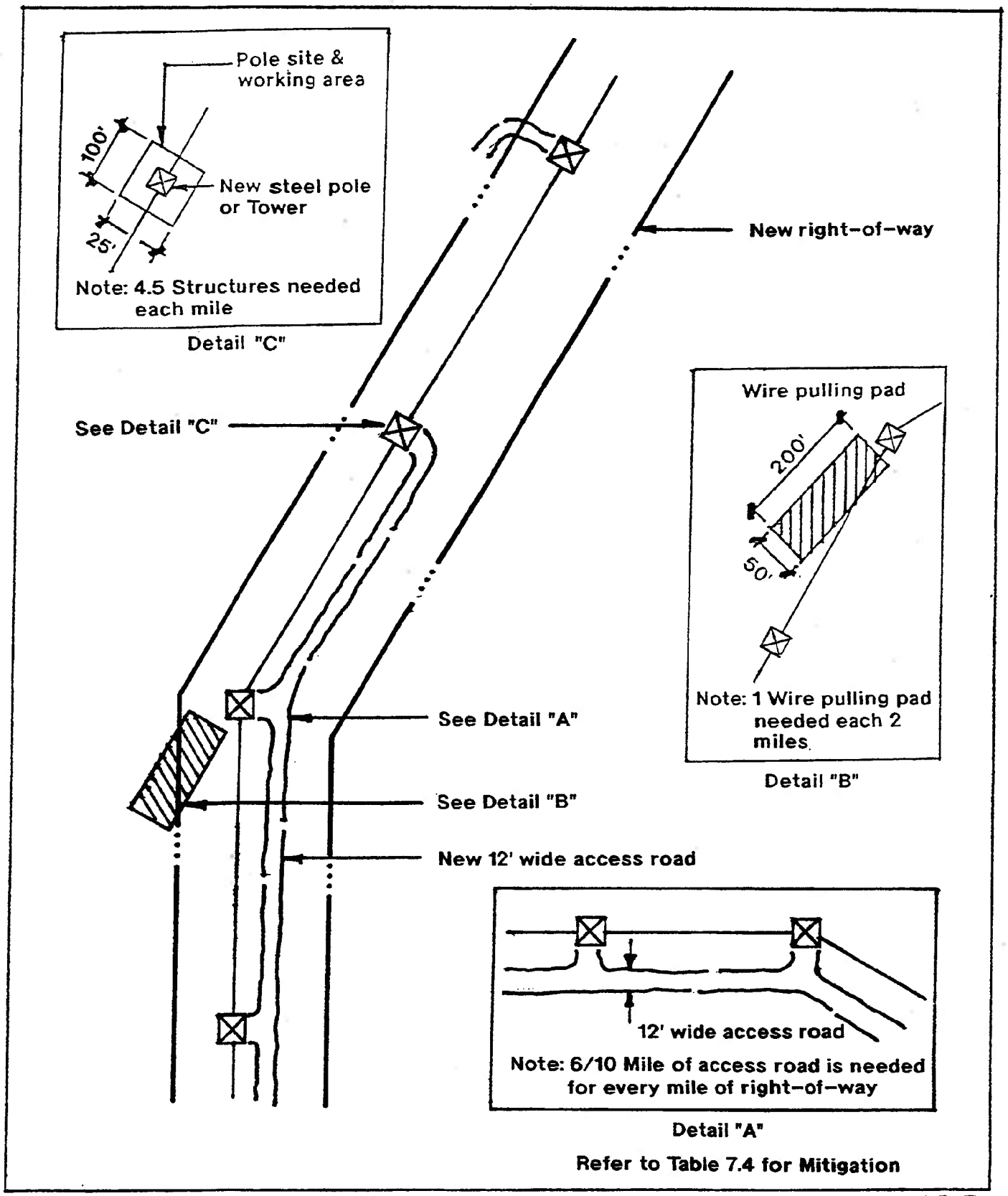
FIGURE 11b



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FIGURE 12

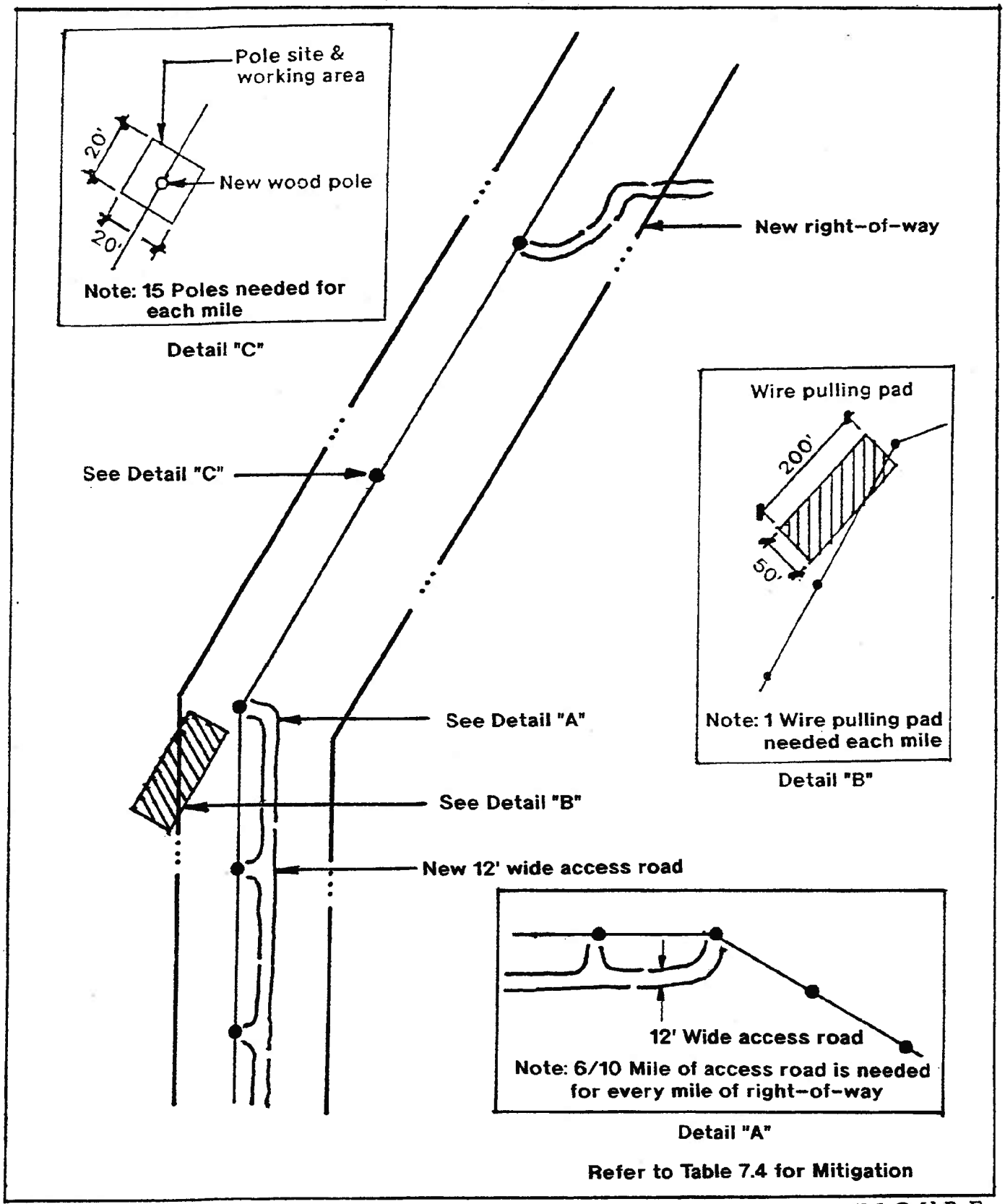
Typical Substation Impact Diagram



Typical New Electric Transmission Line Requiring New R/W (Steel) Impact Diagram

FIGURE 13

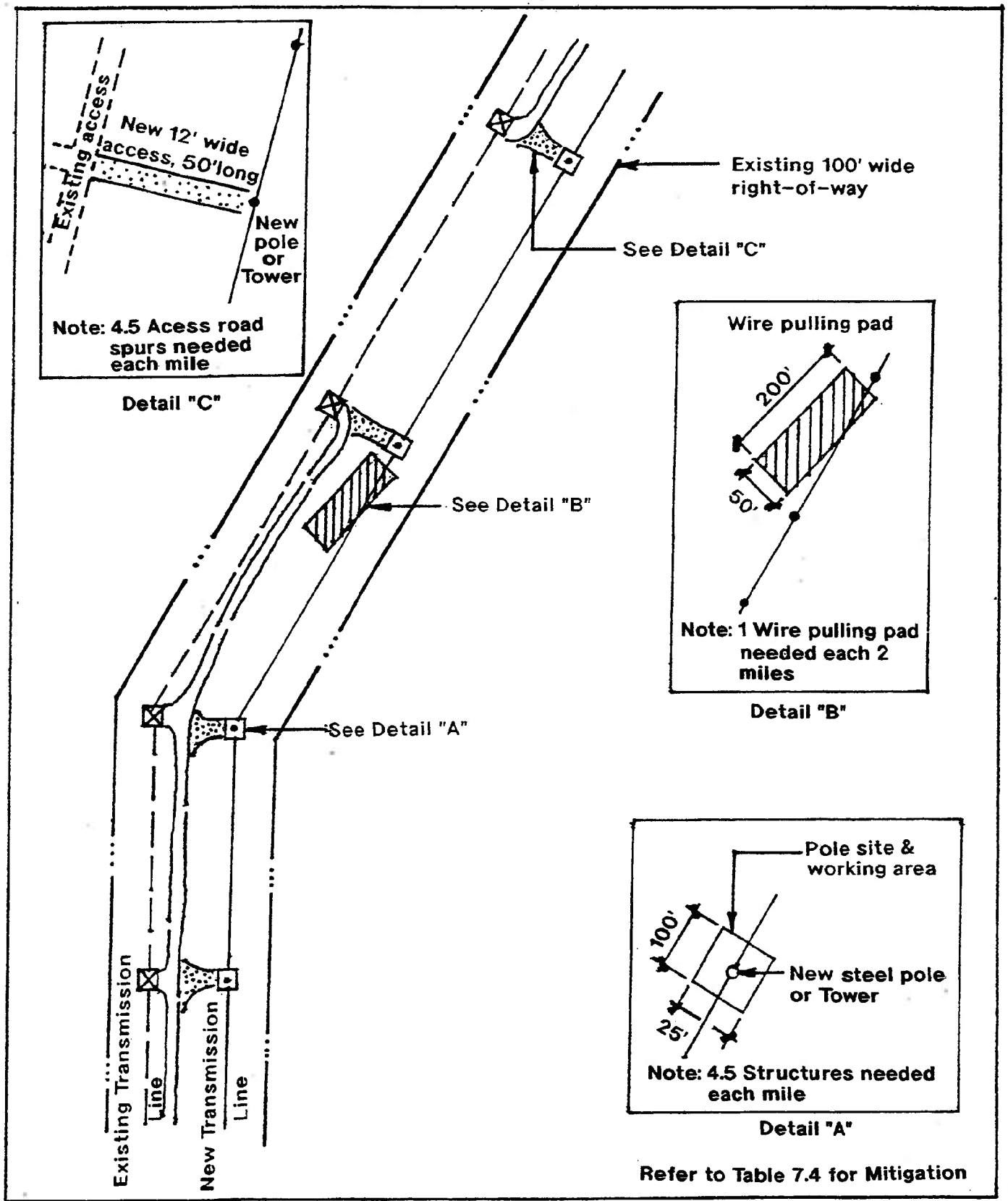
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Typical New Electric Transmission Line Requiring New R/W (Wood) Impact Diagram

FIGURE **14**

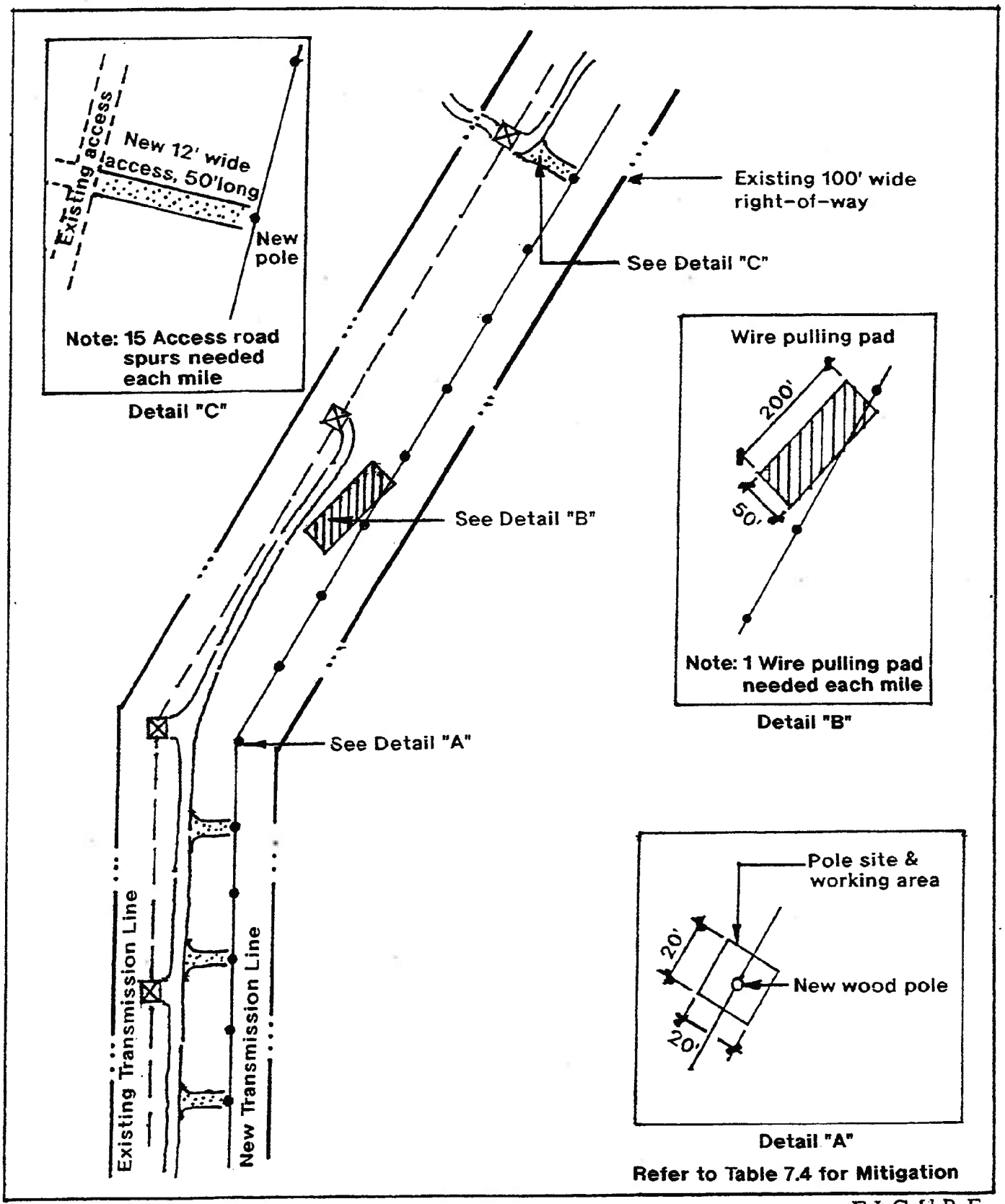
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Typical New Electric Transmission Line in Existing R/W (Steel)
Impact Diagram

FIGURE
15

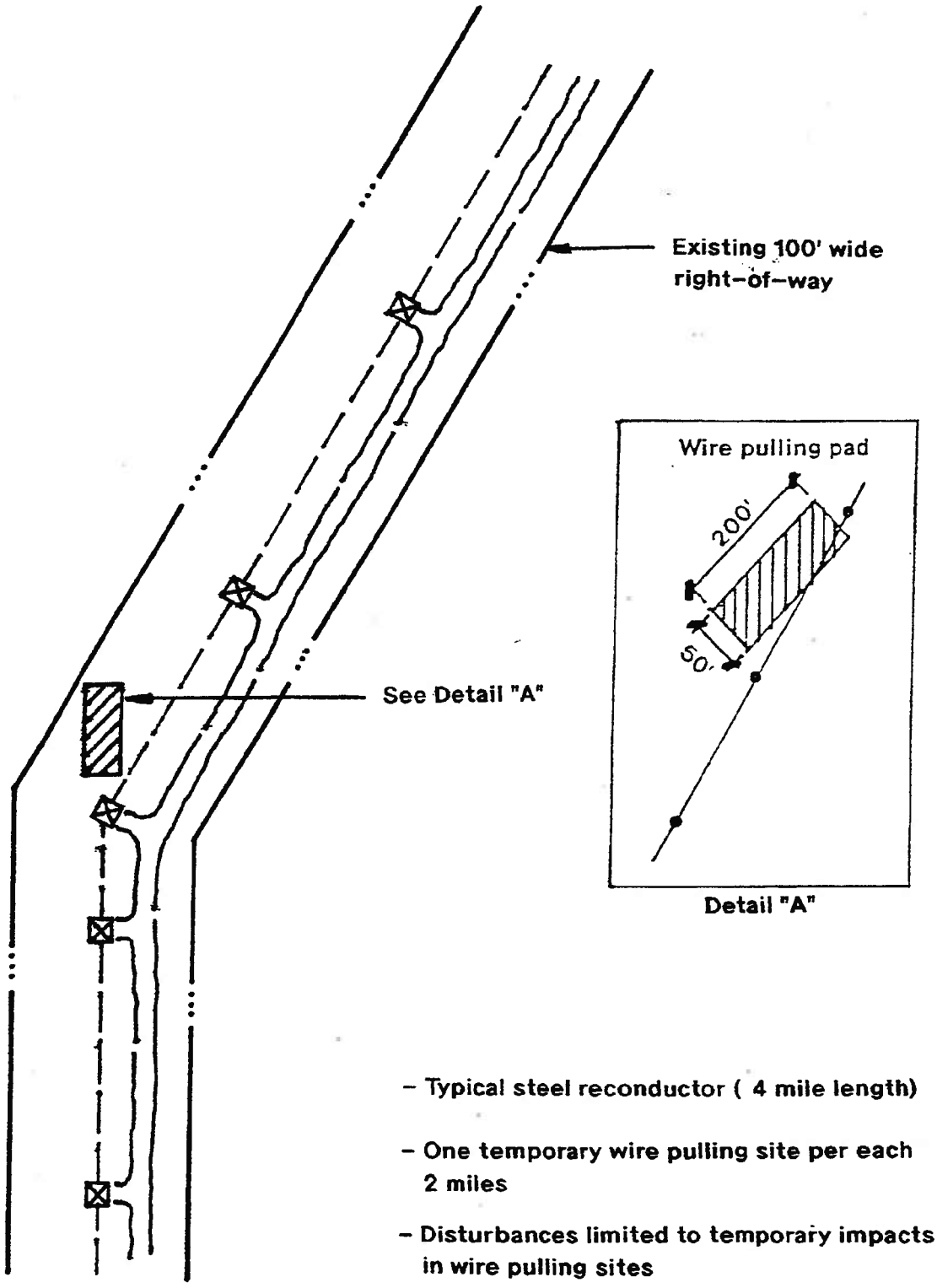
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Typical New Electric Transmission Line in Existing R/W (Wood)
Impact Diagram

FIGURE
16

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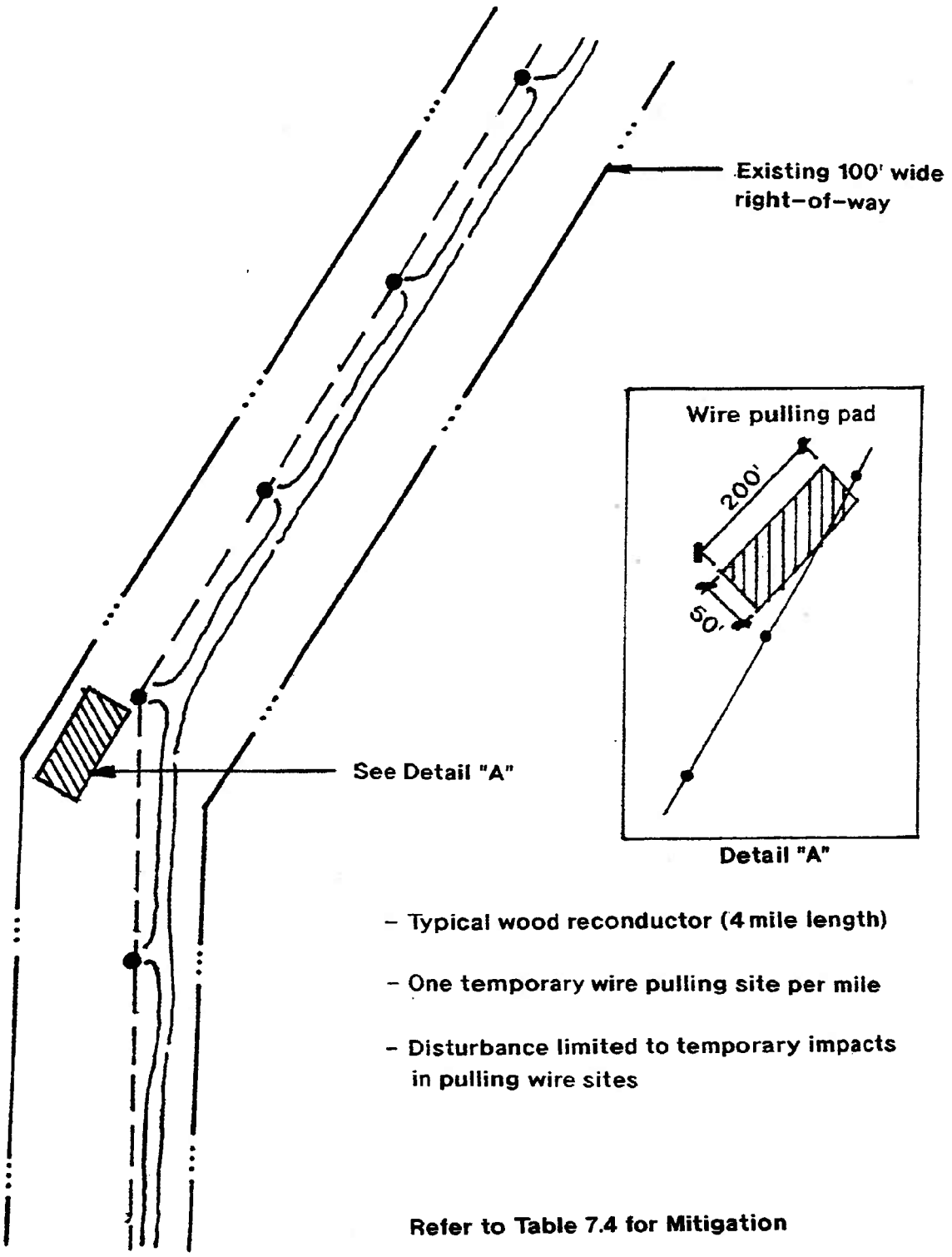
- Typical steel reconductor (4 mile length)
- One temporary wire pulling site per each 2 miles
- Disturbances limited to temporary impacts in wire pulling sites

Refer to Table 7.4 for Mitigation

Typical Electric Transmission Reconductor in Existing R/W (Steel) Impact Diagram

FIGURE 17

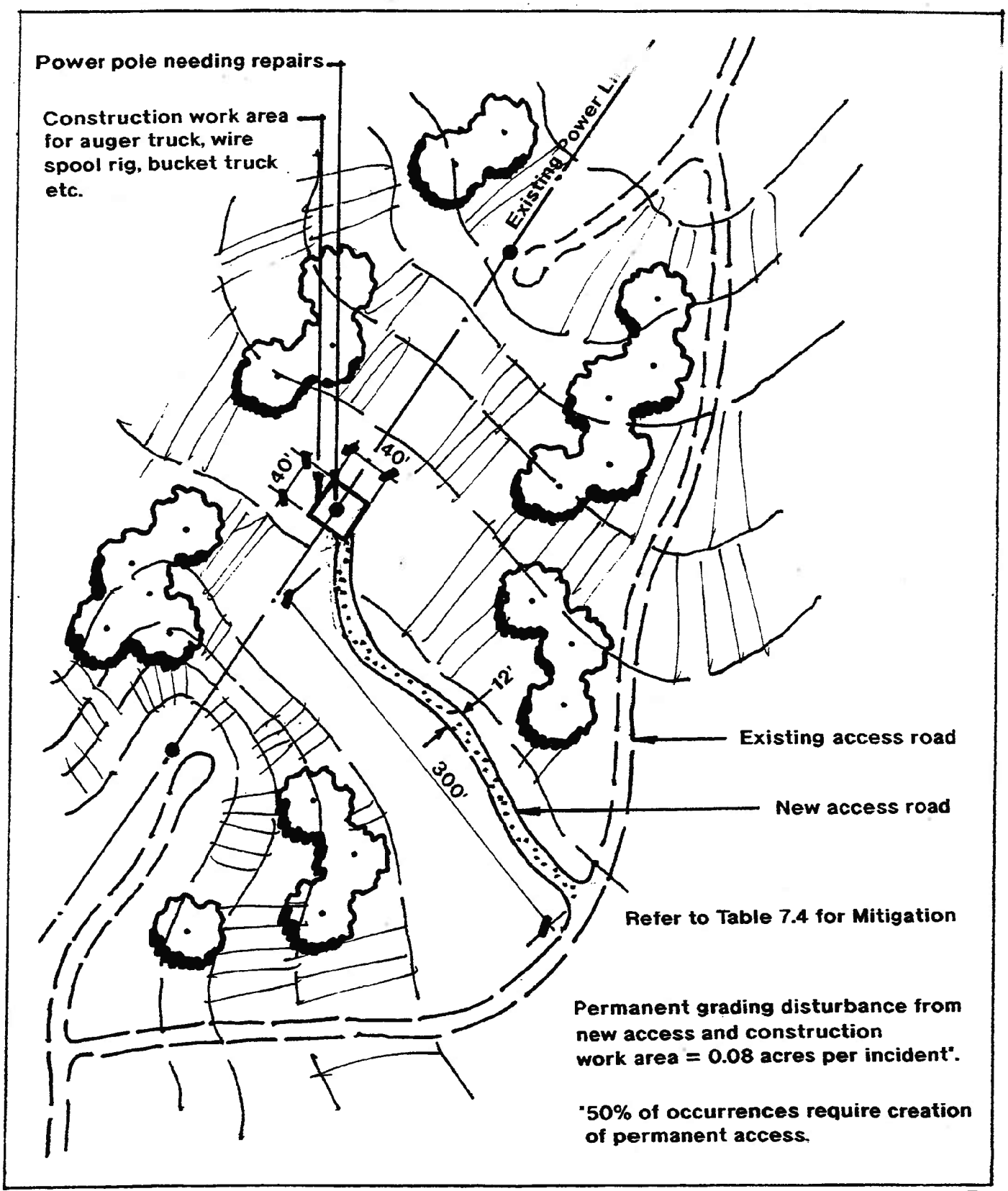
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Typical Electric Transmission Reconductor in Existing R/W (Wood) Impact Diagram

FIGURE **18**

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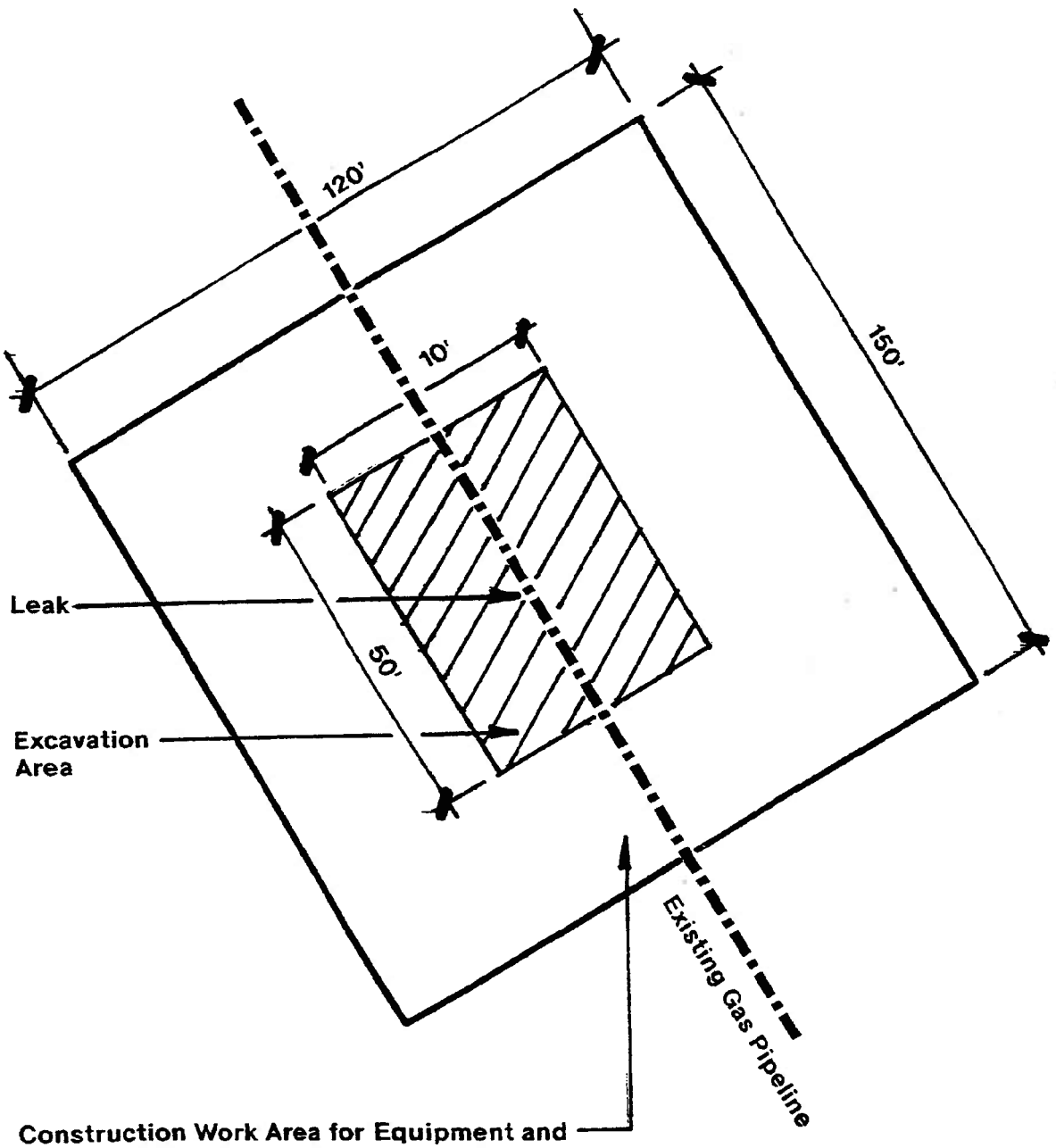


FIGURE

19

Typical Electrical Transmission or Distribution Repairs Impact Diagram

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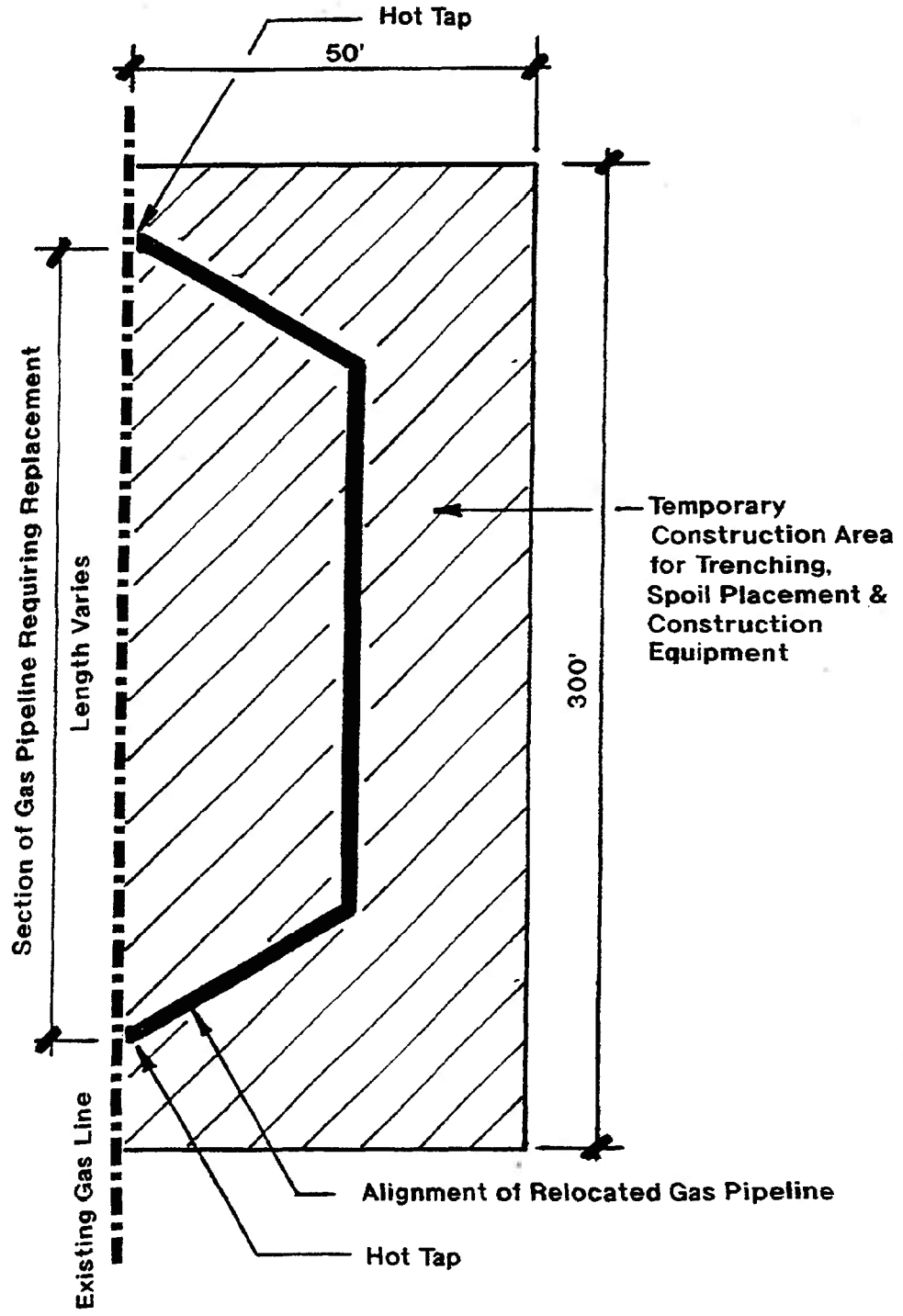


Refer to Table 7.4 for Mitigation

FIGURE 20

Typical Corrective Action to Repair Gas Pipeline Leak Impact Diagram

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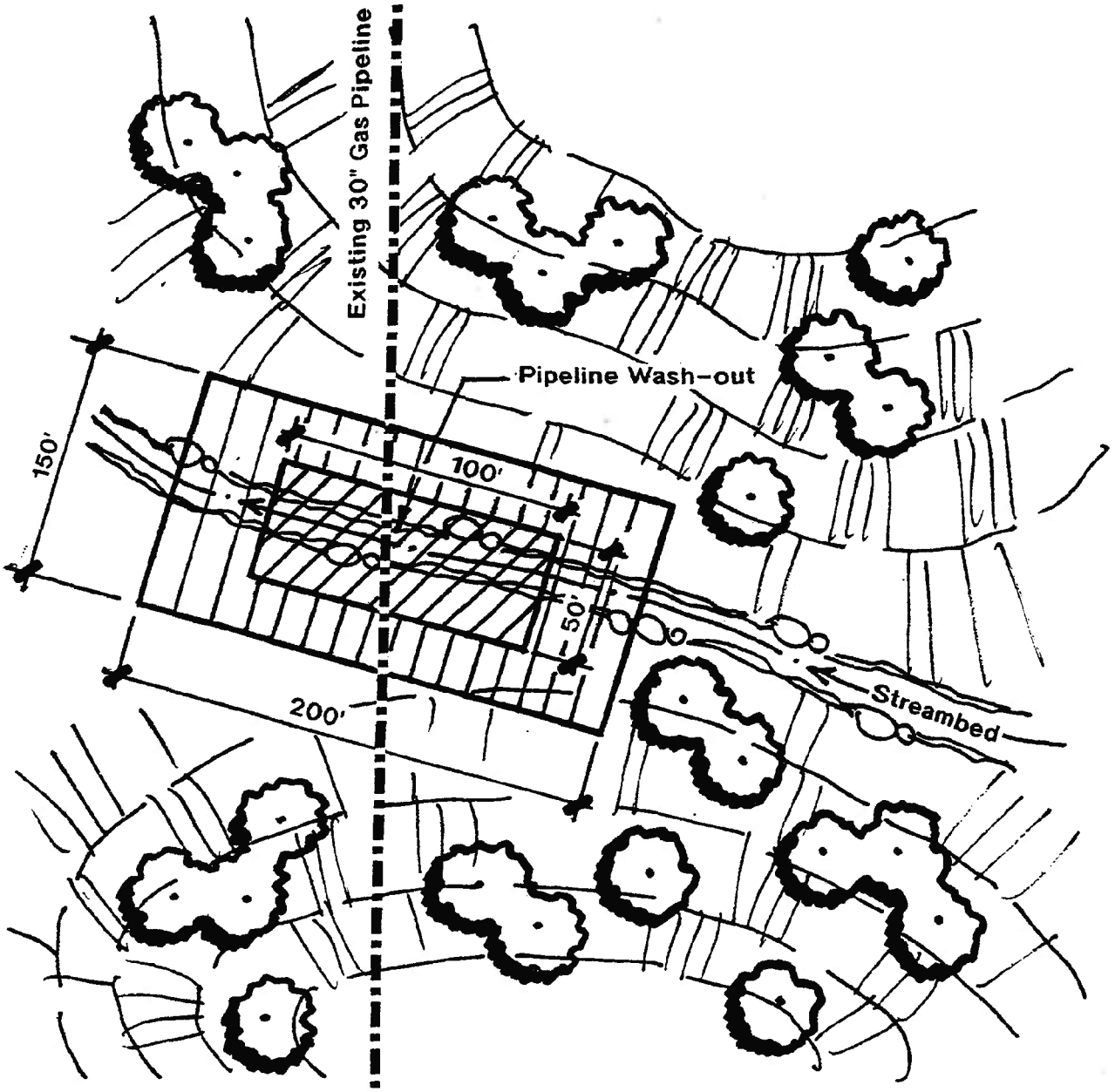
Refer to Table 7.4 for Mitigation

FIGURE

Typical Gas Pipeline Relocation Impact Diagram

21

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Typical Corrective Streambed Repair to Protect Gas Pipeline Impact Diagram

FIGURE 22

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5 Relation to Other Regional Habitat Conservation Plans

As of early 1995, a number of subregional and subarea comprehensive habitat and multiple species conservation plans proposed in southern California by various local governments, local bodies, and private entities are nearing the implementation phase of their plans. Included among these plans are the Multiple Species Conservation Plan generated as a part of San Diego's Clean Water Program, San Diego Association of Governments (SANDAG's) Multiple Habitat Conservation Program, the South Orange County NCCP Subregional Plan, the Riverside County Habitat Conservation Plan, and the County of San Diego's Multiple-Habitat Conservation and Open Space Plan. With limited exceptions relating to Preserve Areas in such plans, as described in Section 6, and certain threatened or endangered species with highly restricted habitat as described in Section 3, this Subregional Plan will be fully implemented independent of such other plans.

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6 SDG&E Activities Within Habitat Conservation Plan Preserves

Activities Within Preserve Areas

As generally described in Section 2 of this Subregional Plan, SDG&E Activities will include the maintenance, repair, and replacement of existing Facilities as well as the installation, maintenance, repair, and replacement of new Facilities. Existing Facilities are and new Facilities may be expected to be, in part, located within established Preserve Areas of Habitat Conservation Plans (HCPs), state, federal, or local preserve areas including public and private lands or other areas set aside for the protection of plants and animals. SDG&E's Activities, particularly those related to new Facilities, are responsive to the growth and service needs of SDG&E customers within the Subregional Plan Area. However, SDG&E is not able to predict with any reasonable degree of certainty what the growth and service needs of its customers will be during the term of this Subregional Plan or what Facilities will be needed to meet those needs.

As a part of its efforts to coordinate the implementation of this Subregional Plan with any effective HCP which may be affected by SDG&E Activities, the following agreements will be adhered to for Activities occurring or proposed to occur in preserve areas.

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6.1 Maintenance, Repair, and Replacement of Existing Facilities

Without ... her authoriz: ion from USFWS or CDFG, SDG&E may conduct all necessary maintenance, repair, and replacement Activities with respect to all existing Facilities which are now or may hereafter be located within a Preserve Area of an HCP, if conducted in accordance with the provisions of this Subregional Plan.

6.2 Installation, Maintenance, Repair, and Replacement of New Facilities

6.2.1 New Gas and Electric Transmission Facilities

As a result of the extensive, rapid, and continuing development within the Subregional Plan Area, existing and proposed Preserve Areas are or will be dispersed among and in some cases surrounded by developed areas. USFWS and CDFG recognize that as a public utility SDG&E is obligated to provide safe, reliable, efficient, and cost-effective electric and gas service throughout the developed area of its service territory in compliance with the Public Utilities Code and subject to the jurisdiction of the California Public Utilities Commission. Unavoidably, therefore, the construction of new electric and gas transmission Facilities through or within Preserve Areas will be necessary in certain circumstances to meet the service requirements of developing areas. Where SDG&E determines that new electric or gas transmission Facilities are necessary within part of a Preserve Area, it will coordinate with USFWS and CDFG in accordance with the procedure set forth below to plan and construct such new Facilities in a manner which avoids or minimizes any impacts to Covered Species and their habitat, to the extent possible, while not impairing SDG&E's ability to meet the service demands of its customers in accordance with its responsibilities as a public utility.

Whenever SDG&E determines that it is necessary to install a new electric transmission line, or electric substation, or to install a new gas transmission line, or gas regulator station in any part of a Preserve Area, SDG&E shall provide USFWS and CDFG with written notice of its intent to install such Facilities which shall contain a detailed description of such Facilities and of their location, along with a map of the area. At a minimum, the information contained on the pre-activity survey form is required. USFWS and CDFG may request a tour of the proposed site and a staff meeting to discuss it. Within twenty (20) working days of its receipt of SDG&E's notice, USFWS and CDFG shall provide SDG&E with their written response setting forth any objections to and alternatives to the location of the Facilities within the Preserve

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Area. Within ten (10) working days of receiving the objections of USFWS of CDFG, or both, SDG&E shall provide USFWS and CDFG with its written reply to their response. Within ten (10) working days of receiving the SDG&E reply, USFWS and CDFG shall approve or deny SDG&E's proposed location for the Facilities within the Preserve Area. If no objections are received by SDG&E from USFWS or CDFG within twenty (20) working days of SDG&E's notice, USFWS and/or CDFG shall be deemed to have concurred with the Activity described in SDG&E's original notice. If USFWS and CDFG denies the location, SDG&E may, within ten (10) working days of receiving such denial appeal to a review panel consisting of Regional Director, USFWS, Director, CDFG, and SDG&E, whose decision shall be final for purposes of this Subregional Plan. The appeal conference must be held within twenty (20) working days.

6.2.2 New Gas and Electric Distribution Facilities

The project proponent, other than SDG&E, that is requesting the extension of distribution facilities to serve his/her project shall obtain approval of said extension of facilities as part of their overall project approval.

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7 Mitigation

The basic formula for addressing the impacts of SDG&E Activities in sensitive resource areas is first to attempt to avoid impacts to Covered Species and their habitats, second to minimize necessary impacts to Covered Species to the extent feasible, and third to mitigate for those unavoidable impacts. The biological mitigation for anticipated impacts of SDG&E Activities takes three forms:

- SDG&E agrees to conduct Activities in an environmentally sensitive manner in accordance with adopted Operational Protocols.

  SDG&E's Operational Protocols are behavioral and construction techniques which, when employed in the field, represent an environmentally sensitive approach to construction and maintenance. The protocols are primarily based upon impact avoidance and minimization and recognize that often minor adjustments during planning, construction, or maintenance activities can yield major benefits to the environment. Operational Protocols are discussed in detail in Section 7.1.

- SDG&E agrees to allow certain fee-owned rights-of-way to be used for wildlife and habitat preservation.

  SDG&E will restrict the use and development of certain land owned by SDG&E underlying specific electric transmission facilities and otherwise comprising a part of SDG&E electric transmission rights-of-way, which contain habitat, connect fragmented habitat areas, or which may contribute to the habitat carrying capacity of Preserve Areas managed as a part of other conservation plans. SDG&E will restrict the use and development of such land to SDG&E's utility activities as described in this Subregional Plan through a prohibitory easement granted in favor of USFWS and

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CDFG, as more fully described in Section 7.3 of this Subregional Plan and subject to the terms and conditions of the Implementing Agreement.

- SDG&E agrees to cause the conveyance of certain high quality habitat land to USFWS, CDFG, or their designee, as further mitigation measure for unavoidable impacts to Covered Species or their habitat as a result of Activities covered by the Subregional Plan. These lands will comprise the SDG&E Mitigation Credits. Mitigation Credits will be reduced as they are used for mitigation in accordance with the ratios set forth in Section 7.4. The amount of Mitigation Credit to be conveyed has been predicted for the initial term of this Subregional Plan (25 years) based upon the expected impacts to habitat which will result from the Activities covered by the Subregional Plan, as more fully described in Section 4. The use of Mitigation Credits will not be necessary where habitat enhancement measures have been successful as a mitigation measure.

  Mitigation Credits which are unused at the expiration or termination of the Subregional Plan shall remain available for utilization, as appropriate, as mitigation for any project or action which may be required under CEQA, NEPA, or other environmental or natural resource law, as more fully described in the Implementing Agreement.

As more fully described in the Implementing Agreement, USFWS, CDFG, and SDG&E agree that, absent Unforeseen Circumstances, the mitigation measures provided in this Subregional Plan constitute the only mitigation measures that shall be required for any activity covered by the Subregional Plan where it results in an impact to a Covered Species or its habitat.

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7.1 Operational Protocols

Operational protocols represent an environmentally sensitive approach to traditional utility construction, maintenance and repair Activities recognizing that slight adjustments in construction techniques can yield major benefits for the environment. The appropriate Operational Protocols for each individual project will be determined and documented by the Environmental Surveyor. The information regarding the qualifications and responsibilities of the environmental surveyor is contained in Appendix B. The following mitigation measures shall be adhered to by SDG&E.

7.1.1 General Behavior for All Field Personnel

1. Vehicles must be kept on access roads. A 15 mile-per-hour speed limit shall be observed on dirt access roads to allow reptile species to disperse. Vehicles must be turned around in established or designated areas only.

2. No wildlife, including rattlesnakes, may be harmed, except to protect life and limb.

3. Firearms shall be prohibited on the rights-of-way except for those used by security personnel.

4. Feeding of wildlife is not allowed.

5. SDG&E personnel are not allowed to bring pets on the rights-of-way in order to minimize harassment or killing of wildlife and to prevent the introduction of destructive domestic animal diseases to native wildlife populations.

6. Parking or driving underneath oak trees is not allowed in order to protect root structures except in established traffic areas.

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7. Plant or wildlife species may not be collected for pets or any other reason.

8. Littering is not allowed. SDG&E shall not deposit or leave any food or waste on the rights-of-way or adjacent property.

9. Wild Fires shall be prevented or minimized by exercising care when driving and by not parking vehicles where catalytic converters can ignite dry vegetation. In times of high fire hazard, it may be necessary for trucks to carry water and shovels, or fire extinguishers in the field. The use of shields, protective mats, or other fire prevention methods shall be used during grinding and welding to prevent or minimize the potential for fire. Care should be exhibited when smoking in natural habitats.

10. Field crews shall refer environmental issues including wildlife relocation, dead or sick wildlife, hazardous waste, or questions about avoiding environmental impacts to the Environmental Surveyor. Biologists or experts in wildlife handling may need to be brought in by Environmental Surveyor for assistance with wildlife relocations.

7.1.2 Training

11. All SDG&E personnel working within the project area shall participate in an employee training program conducted by SDG&E, with annual updates. The program will consist of a brief discussion of endangered species biology and the legal protections afforded to Covered Species; a discussion of the biology of the Covered Species protected under this Subregional Plan; the habitat requirements of these Covered Species; their status under the Endangered Species Acts; measures being taken for the protection of Covered Species and their habitats under this Subregional Plan; and a review of the Operational Protocols. A fact sheet conveying this information will also be distributed to all employees working in the project area.

12. Designated SDG&E staff will conduct selected reviews of SDG&E operations. Any proposed modifications to Operational Protocols, procedures or conditions will be promptly provided to CDFG and USFWS for their review and input for required permit or Subregional Plan amendments.

7.1.3 Preactivity Studies

13. The Environmental Surveyor shall conduct preactivity studies for all activities occurring off of access roads in natural areas. The scope of these studies is included in Appendix A. The Environmental Surveyor will complete a preactivity study form contained in Appendix A, including recommendations for review by a biologist and construction monitoring as appropriate. Biologists should be called in when there is the potential for unavoidable impacts to Covered Species. The forms are for information only, and will not require CDFG or USFWS approval. These forms shall be faxed to CDFG and USFWS, along with phone notification, who will reply within 5 working days, indicating if they would like to review the project and/or suggest recommendations for post project monitoring. If a biologist is required, he/she will be contacted concurrent to notification to CDFG and USFWS. SDG&E's project may proceed during this time if necessary, in compliance with the recommendations of the biologist (For narrow endemic species see mitigation IV following Table 3.1). USFWS survey protocols performed by qualified biologists will be required for new projects which are defined as projects requiring CEQA review.

In those situations where the Environmental Surveyor cannot make a definitive species

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identification, an on-call biologist will be brought in. When the biologist is called, he or she will be contacted concurrently with CDFG and USFWS. The biologist will make the determination of the species in question and recommend avoidance or mitigation approaches to the Environmental Surveyor and a decision will be made. In those situations where more than one visit may be necessary to identify a given species, such as certain birds, no more than three site visits shall be required. It is expected that the typical USFWS search protocols will not be utilized in most situations due to the Plan's avoidance priority. Background information necessary to complete the annual report shall be collected on the preactivity study form and used by SDG&E to prepare the annual report.

14. In order to ensure that habitats are not inadvertently impacted, the Environmental Surveyor shall determine the extent of habitat and flag boundaries of habitats which must be avoided. When necessary, the Environmental Surveyor should also demark appropriate equipment laydown areas, vehicle turn around areas, and pads for placement of large construction equipment such as cranes, bucket trucks, augers, etc. When appropriate, the Environmental Surveyor shall make office and/or field presentations to field staff to review and become familiar with natural resources to be protected on a project specific basis.

15. SDG&E will maintain a library of rare plant locations known to SDG&E occurring within easements and fee owned properties. "Known" means a verified population, either extant or documented using record data. Information on known sites may come from a variety of record data sources including local agency Habitat Conservation Plans, pre-activity surveys, or biological surveys conducted for environmental compliance on a project site (e.g. initial study), but there is no requirement for development of original biological data. Plant inventories shall be consulted as part of pre-activity survey procedures.

7.1.4 Maintenance, Repair and Construction of Facilities

16. Maintenance, repair and construction Activities shall be designed and implemented to minimize new disturbance, erosion on manufactured and other slopes, and off-site degradation from accelerated sedimentation, and to reduce maintenance and repair costs.

17. Routine maintenance of all Facilities includes visual inspections on a regular basis, conducted from vehicles driven on the access roads where possible. If it is necessary to inspect areas which cannot be seen from the roads, the inspection shall be done on foot, or from the air.

18. When the view of a gas transmission line marker becomes obscured by vegetation on a regular basis requiring repeated habitat removal, consideration shall be given to the replacement of markers with taller versions.

19. Erosion will be minimized on access roads and other locations primarily with water bars. The water bars are mounds of soil shaped to direct flow and prevent erosion.

20. Hydrologic impacts will be minimized through the use of state-of-the-art technical design and construction techniques to minimize ponding, eliminate flood hazards, and avoid erosion and siltation into any creeks, streams, rivers, or bodies of water by use of Best Management Practices.

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21. When siting new facilities, every effort will be made to cross the wetland habitat perpendicular to the watercourse, spanning the watercourse to minimize the amount of disturbance to riparian areas (See Figure 4).

22. Gas and other facilities cross streambeds and require maintenance and repair. During such times water may be temporarily diverted as long as after disturbance natural drainage patterns are restored to minimize the impact of the disturbance and help to reestablish or enhance the native habitat. Erosion control during construction in the form of intermittent check dams and culverts should also be considered to prevent alteration to natural drainage patterns and prevent siltation.

23. Impacts to wetlands shall be minimized by avoiding pushing soil or brush into washes or ravines.

24. During work on facilities, all trucks, tools, and equipment should be kept on existing access roads or cleared areas, to the extent possible.

25. Environmental Surveyor must approve of activity prior to working in sensitive areas where disturbance to habitat may be unavoidable.

26. Insulator washing is allowed from access roads if other applicable protocols are followed.

27. Brush clearing around facilities for fire protection shall not be conducted from March through August without prior approval by the Environmental Surveyor. The Environmental Surveyor will make sure that the habitat contains no active nests, burrows, or dens prior to clearing.

28. In the event SDG&E identifies a covered species of plant within a 10' radius around power poles, which is the area required to be cleared for fire protection purposes, SDG&E shall notify USFWS (for ESA listed plants), and CDFG (for CESA listed plants), in writing, of the plant's identity and location and of the proposed Activity, which will result in a Take of such plant. Notification will occur ten (10) working days prior to such Activity, during which time USFWS or CDFG may remove such plant(s). If neither USFWS or CDFG have removed such plant(s) within the ten (10) working days following the notice, SDG&E may proceed to complete its fire clearing and cause a Take of such plant(s).

    When fire clearing is necessary in instances other than around power poles, and the potential for impacts to Covered Species exists, SDG&E will follow the preactivity study and notification procedures in Operational Protocol number 13.

29. Wire stringing is allowed year round in sensitive habitats if conductor is not allowed to drag on ground or in brush and vehicles remain on access roads.

30. Maintenance of cut and fill slopes shall consist primarily of erosion repair. In situations where revegetation would improve the success of erosion control, planting or seeding with native hydroseed mix may be done on slopes.

31. Spoils created during maintenance operations shall be disposed of only on previously disturbed areas designated by the Environmental Surveyor or used immediately to fill eroded areas. Cleared vegetation shall be hauled off the rights-of-way to a permitted disposal location.

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32. Within 6 months of Plan approval, environmentally sensitive tree trimming locations will be identified in the tree trim computer data base system utilized by tree trim contractors. (This data base also tracks the date of each tree trim, type of tree, where threatening dogs reside, etc.). The Environmental Surveyor should be contacted to perform a preactivity survey when trimming is planned in environmentally sensitive areas. Whenever possible, trees in environmentally sensitive areas (determined by CDFG and SDG&E) will be scheduled for trimming in the non-sensitive times.

33. No new Facilities and Activities shall be planned which disturb vernal pools, their watersheds, or impact their natural regeneration. Continued historic maintenance of existing infrastructure utilizing existing access roads is allowed to continue in areas containing vernal pool habitat. New construction of overhead infrastructure which spans vernal pool habitats is allowed as long as the placement of facilities or the associated construction activities in no way impact the vernal pools.

34. If any previously unidentified dens, burrows, or plants are located on any project site after the preactivity survey, the Environmental Surveyor shall be contacted. Environmental Surveyor will determine how to best avoid or minimize impacting the resource by considering such methods as project or work plan redevelopment, equipment placement or construction method modification, seasonal/time of day limitations, etc...

35. The Environmental Surveyor shall conduct monitoring as recommended in the preactivity survey report. At completion of work, the Environmental Surveyor shall check to verify compliance, including observing that flagged areas have been avoided and that reclamation has been properly implemented. Also at completion of work, the Environmental Surveyor is responsible for removing all habitat flagging from the construction site.

36. The Environmental Surveyor shall conduct checks on mowing procedures, to ensure that mowing is limited to a 12-foot wide area on straight portions of the road (slightly wider on radius turns), and that the mowing height is no less than 4 inches.

37. Supplies or equipment where wildlife could hide (e.g., pipes, culverts, pole holes) shall be inspected prior to moving or working on them to reduce the potential for injury to wildlife. Supplies or equipment that cannot be inspected or from which animals could not be removed shall be capped or otherwise covered at the end of each work day. Old piping or other supplies that have been left open, shall not be capped until inspected and any species found in it allowed to escape. Ramping shall be provided in open trenches when necessary. If an animal is found entrapped in supplies or equipment, such as a pipe section, the supplies or equipment shall be avoided and the animal(s) left to leave on its own accord, except as otherwise authorized by CDFG.

38. All steep-walled trenches or excavations used during construction shall be inspected twice daily (early morning and evening) to protect against wildlife entrapment. If wildlife are located in the trench or excavation, the Environmental Surveyor shall be called immediately to remove them if they cannot escape unimpeded.

39. Large amounts of fugitive dust could interfere with photosynthesis. Fugitive dust created during clearing, grading, earth-moving, excavation or other construction activities will be controlled by regular watering. At all times, fugitive dust emissions will be controlled by limiting on-site vehicle speed to 15 miles per hour.

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40. Before using pesticides in areas where burrowing owls may be found, a pre-activity survey will be conducted.

7.1.5 Maintenance of access roads shall consist of:

41. Repair of erosion by grading, addition of fill, and compacting. In each case of repair, the total area of disturbance shall be minimized by careful access and use of appropriately sized equipment. Repairs shall be done after preactivity surveys conducted by the Environmental Surveyor and in accordance with the recommendations regarding construction monitoring and relevant protocols. Consideration should be given to source of erosion problem, when source is within control of SDG&E.

42. Vegetation control through grading should be used only where the vegetation obscures the inspection of facilities, access may be entirely lost, or the threat of Facility failure or fire hazard exists. The graded access road area should not exceed 12'-wide on straight portions (radius turns may be slightly wider) (See Figure 23).

43. Mowing habitat can be an effective method for protecting the vegetative understory while at the same time creating access to a work area. Mowing should be used when permanent access is not required since, with time, total revegetation is expected. If mowing is in response to a permanent access need, but the alternative of grading is undesirable because of downstream siltation potential, it should be recognized that periodic mowing will be necessary to maintain permanent access.

44. Maintenance work on access roads should not expand the existing road bed (See Figure 23).

45. Material for filling in road ruts should never be obtained from the sides of the road which contain habitat without approval from Environmental Surveyor..

7.1.6 Construction of new access roads shall comply with the following:

46. SDG&E access roads will be designed and constructed according to the SDG&E *Guide for Encroachment on Transmission Rights-of-Way (4/91).*

47. Access roads will be made available to managers of the regional preserve system subject to coordination with SDG&E.

48. New access roads shall be designed to be placed in previously disturbed areas and areas which require the least amount of grading in sensitive areas during construction whenever possible (See Figure 5). Preference shall be given to the use of stub roads rather than linking facilities tangentially.

49. SDG&E will consider providing access control on access roads leading into the regional preserve system where such control provides benefit to sensitive resources.

50. New access road construction is allowed year round. Every effort shall be made to avoid constructing roads during the nesting season. During the nesting season, the presence or absence of nesting species shall be determined by a biologist and appropriate avoidance and minimization recommendations followed.

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7.1.7 Construction and Maintenance of Access Roads Through Streambeds

51. Construction of new access roads through streambeds requires a Streambed Alteration Agreement from CDFG and/or consultation with the Army Corps of Engineers.

52. Maintenance or construction vehicle access through shallow creeks or streams is allowed. However, no filling for access purposes in waterways is allowed without the installation of appropriately sized culverts. The use of geotextile matting should be considered when it would protect wetland species.

53. Staging/storage areas for equipment and materials shall be located outside of riparian areas. (See Figure 23).

7.1.8 Survey Work

54. Brush clearing for foot paths or line-of-sight cutting is not allowed from March through August in sensitive habitats without prior approval from the Environmental Surveyor, who will ensure that activity does not adversely affect a sensitive species.

55. SDG&E survey personnel must keep vehicles on existing access roads. No clearing of brush for panel point placement is allowed from March through August without prior approval from the Environmental Surveyor.

56. Hiking off roads or paths for survey data collection is allowed year round so long as other protocols are met.

7.1.9 Emergency Repairs

57. During a system emergency, unnecessary carelessness which results in environmental damage is prohibited.

58. Emergency repair of facilities is required in situations which potentially or immediately threaten the integrity of the SDG&E system, such as pipe leaks, or downed lines, slumps, slides, major subsidence, etc. During emergency repairs the Operational Protocols contained in this Subregional Plan shall continued to be followed to fullest extent possible.

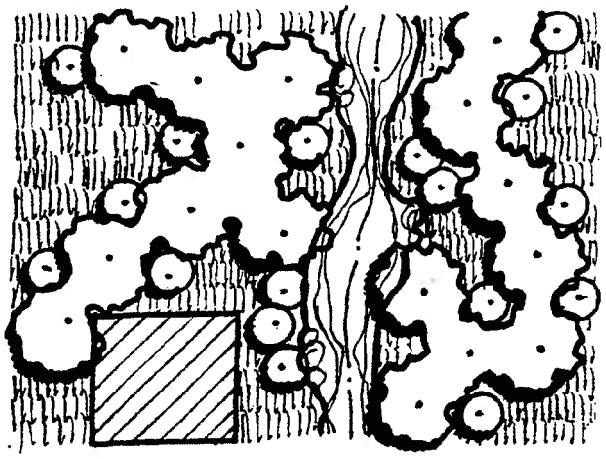
59. Once the emergency has stabilized, any unavoidable environmental damage will be reported to the Environmental Surveyor by the foreman. The Environmental Surveyor will develop a mitigation plan and ensure its implementation is consistent with this Subregional Plan.

7.1.10 Activities of Underlying Fee Owners

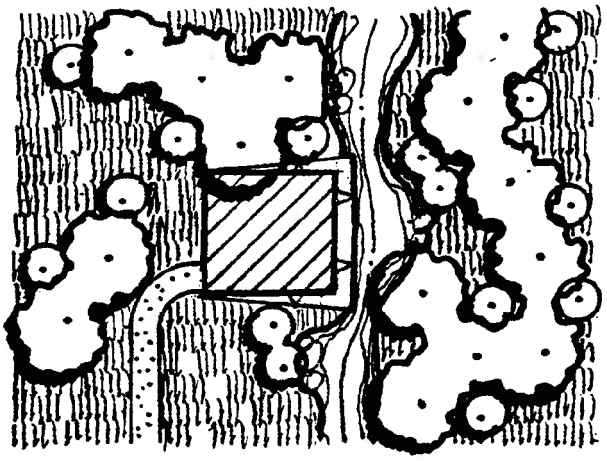
60. Most SDG&E rights-of-way are held in easement only. The activities of underlying fee owners cannot be controlled by SDG&E and are not covered by this Subregional Plan.

61. When sensitive habitat exists on either side of a utility right-of-way, SDG&E will not oppose underlying fee owners dedicating said property to conservation purposes. Underlying fee owners are expected to comply with applicable federal, state, and local regulations.

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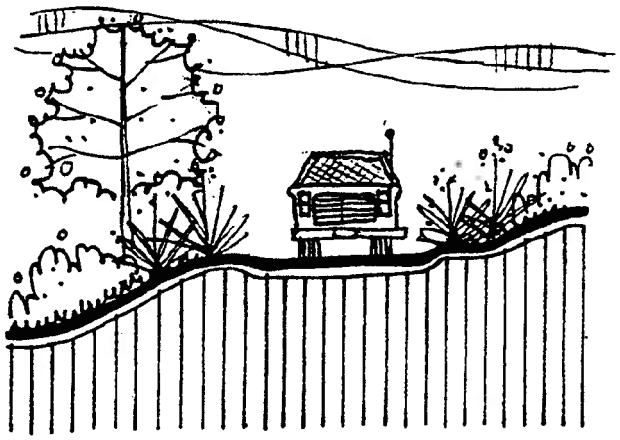


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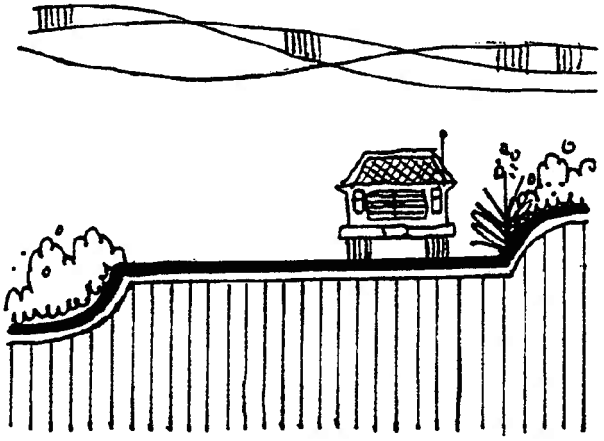


NOT THIS

CONSTRUCTION STAGING/STORAGE AREAS SHOULD BE LOCATED OUTSIDE OF STREAMS



THIS



NOT THIS

ACCESS ROAD MAINTENANCE SHOULD NOT EXPAND THE EXISTING ROAD BED

FIGURE

Operational Protocol Diagrams

23

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7.2 Habitat Enhancement Measures

The purpose of this section is to describe the techniques and permit the substitution of habitat enhancement measures when it is more beneficial than the use of mitigation credits. Habitat enhancement increases the value of biological resources in an impacted area, thereby improving the value of that habitat for Covered Species. Habitat enhancement activities shall occur under the direction of a Habitat Restoration Specialist. All disturbed areas, whether inside or outside of preserves, and which do not need to be maintained in a cleared state, shall be enhanced, either through vegetation restoration, habitat reclamation, or a combination of the two. Vegetation restoration entails a range of techniques.

For SDG&E Activities occurring within the Preserve, and for SDG&E Activities affecting riparian/wetland areas, the particular enhancement methodology will be proposed by SDG&E, with USFWS and CDFG concurring prior to implementation. For all other areas outside of the Preserve, SDG&E has discretion over the enhancement method selected, although it is expected that a standard coastal sage scrub seed mix will be used for reseeding many disturbed areas. For impacts both within and outside Preserve, if habitat enhancement is not selected, or is not successful according to the criteria specified in the mitigation flow chart (Figure 24), then a deduction from the SDG&E Mitigation Credits shall be made in accordance with ratios contained in Section 7.4. For all temporary impacts greater than 500 square feet, acreage not meeting success criteria shall be deducted from SDG&E mitigation credits at a 1:1 ratio. For areas of less than 500 square feet, success criteria will not be required to be met. In such areas, refer to erosion control measures contained in Section 7.1.

7.2.1 Vegetation Restoration

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The Habitat Restoration Specialist has a range of vegetation restoration techniques from which to choose:

Hydroseeding

Vegetation restoration will typically be done using a native seed mix obtained from a commercial seed provider and shall be applied by hydroseeding. For hydroseeding inside the Preserve areas, seed will be obtained from the local gene-pool and similar composition to the reference site.

Vegetation restoration shall be conducted from mid-November through mid-January to take advantage of rainy season precipitation, and should not be artificially irrigated.

Seed mix specifications and application techniques shall be provided by the Habitat Restoration Specialist, who will be an acknowledged specialist in native habitat restoration or a plant ecologist with experience developing native restoration plans in Southern California. The Habitat Restoration Specialist will be responsible for restoration plans within the Preserve.

If restoration lands contain areas used for temporary roads, staging areas, or other intensive activities, the soil may become so compacted that revegetation is difficult. In cases such as this, disking and plowing the compacted soil will loosen it and improve the success of hydroseed revegetation. Disking may also foster weed growth and should only be used where an influx of weeds would not adversely affect adjacent native plant communities.

Consideration shall be given to supplemental planting of species of concern in areas where it is desirable to expand existing colonies. For example, supplemental planting may be highly desirable in areas containing chollas or prickly pear cactus. Supplemental planting and plant relocation should only be done in disturbed areas that are thought to be suitable. Habitat conversion and impacts to extant native vegetation should be avoided.

Hand-Seeding

Seed may be applied by hand and raked into the top inch of soil. This method is best suited for small areas and areas that are inaccessible to a hydroseed truck.

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Imprinting

Imprinting is the mechanical formation of smooth-walled V-shaped furrows in the soil surface, application of seed and injection of beneficial mycorrhizal fungi into the soil surface. This method is best suited for areas that are accessible by bulldozer and where there is a potential problem with weeds.

Soil and Plant Salvage

Native vegetation from the area to be impacted should be removed, mulched and stockpiled separately. Top soil should also be removed and stockpiled separately. Following construction activities, the top soil should be replaced and covered with the mulch. The top soil and mulch both have native propagules and the mulch reduces the erosion potential. This method is well suited for temporary roads, staging areas, or other intensive activities.

Quality Assurance

Monitoring, involving visual inspection, shall be conducted on restoration sites after one year. A second application may be made. If, after one more year, restoration is deemed unsuccessful, the wildlife agencies, in cooperation with SDG&E, will determine whether the remaining loss shall be mitigated through a deduction from the SDG&E Mitigation Credits, or a third application would better achieve the intended purpose.

Coverage standards will be based on comparisons with established stands of the target vegetation, or another reference area. The means of determining success should be based on estimates of cover by native species, cover of exotic species, and diversity of native species. The cover of native species should increase and the cover of weed species should decrease, eventually approximating the reference area. The reference areas should be a nearby stand of vegetation that the restoration is attempting to emulate. It should have a similar aspect, slope, and soil type.

Cover for the restoration and references areas should be estimated using repeatable cover classes. One tested system is as follows:

Cover Class	**1**	**2**	**3**	**4**	**5**	**6**
% Cover	0-5	5-25	25-50	50-75	75-95	95-100
Mean Cover	2.5	15	37.5	62.5	85	97.5

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SUCCESS CRITERIA MILESTONES

Criteria*	Year 1	Year 2
Cover by Exotic Species**	140%	130%
Cover by Native Species (trees shrubs and herbaceous species)	60%	70%

*Values are relative to reference area
**Percent total cover

7.2.2 Habitat Reclamation

Habitat reclamation techniques should be considered when re-seeding would be an ineffective habitat enhancement due to the presence of stronger and more prolific exotic vegetation in the proximity.

Habitat reclamation involves the elimination of existing exotic vegetation (weed abatement) to facilitate the natural re-colonization of a native habitat. An example of where habitat reclamation would be appropriate is in wetland areas containing tamarisk or giant reed.

In order to avoid net loss of wetland and riparian habitat, exotic species should be removed at a 2:1 ratio. Exotics should be removed from the site and disposed of off-site. Soil should be prepared for new native growth to occur. In areas larger than 500 square feet, reseeding will supplement the recovery of native vegetation

Reclamation shall be limited to initial removal and one-time removal of new growth within one year if necessary. In certain cases, such as with Arundo removal, it may be necessary to clear invasive vegetation a third time. Once weeds are controlled, if extensive reclamation is undertaken, supplemental planting may be necessary to keep weeds out.

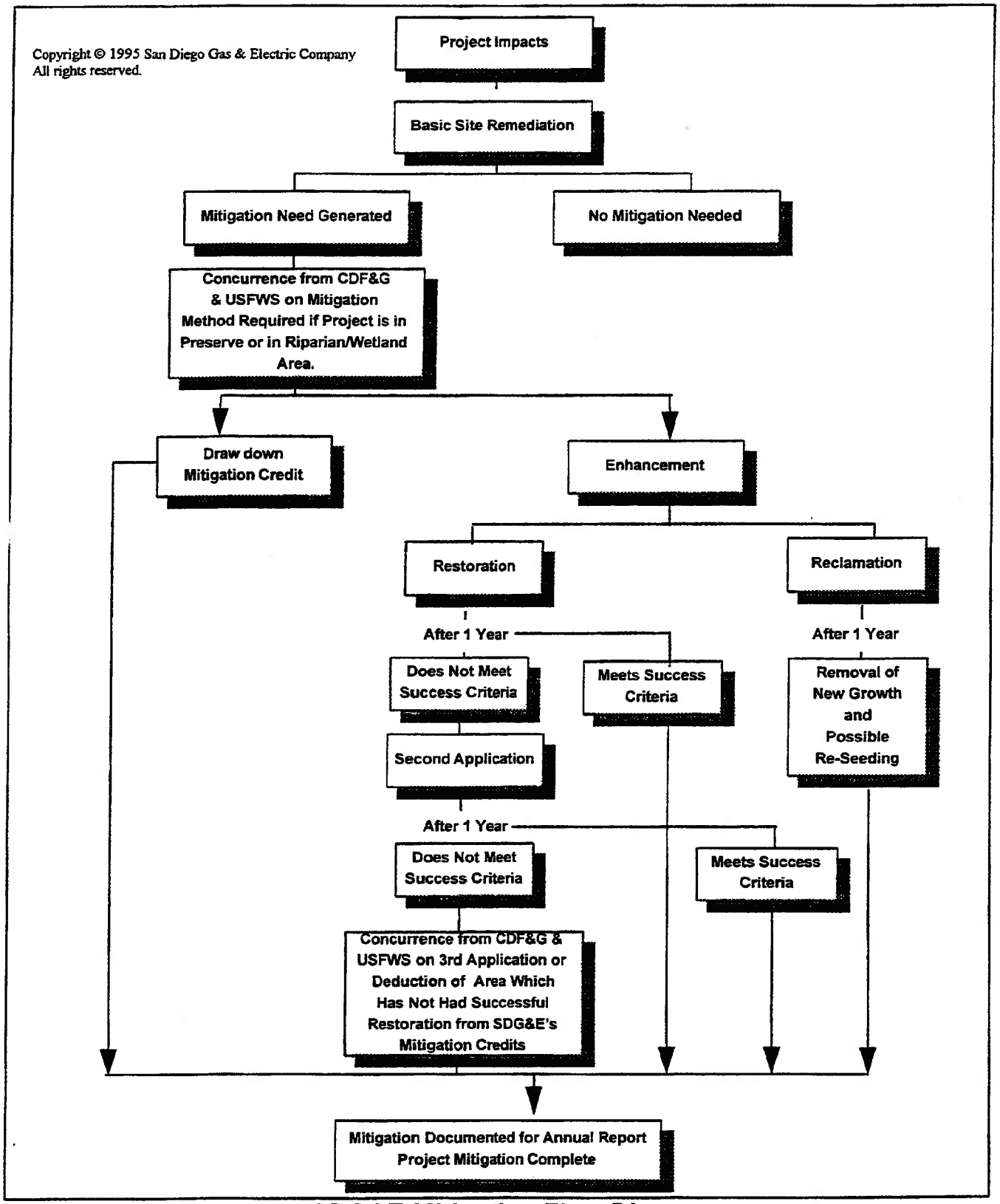
The habitat reclamation shall be done under the direction of the Habitat Restoration Specialist who will determine the abatement technique to be used and the area in the vicinity of the project site on which abatement would be most effective in facilitating reclamation on the project site.

7.2.3 Procedure

(Refer to Figure 24).Figure 24 -- Mitigation Flow Diagram

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SDG&E Mitigation Flow Diagram
(For Temporary Disturbances)

FIGURE
24

7.3 Fee-Owned Rights-of-Way

Certain of SDG&E's electric transmission rights-of-way consist of real property owned in fee by SDG&E. Such fee owned rights-of-way are of various widths and cover a variety of habitat types. Some of the fee-owned rights-of-way may serve as the foundation for the creation by USFWS and CDFG of valuable wildlife corridors between Preserve Areas. The fee-owned rights-of-way subject to this subsection are identified on Figure 25a and 25b.

As a further mitigation measure, SDG&E will restrict the use and development of such lands to those SDG&E activities covered by this Subregional Plan. Subject to the terms and conditions of the Implementing Agreement, SDG&E shall effect such use and development restriction by granting a prohibitory easement in favor of USFWS and CDFG, or their designee, to be recorded in County Recorder's Office for the County in which such land is located.

To assist in the creation of these corridors, SDG&E agrees that it will not, and that it will not allow any other person, to use such rights-of-way for any purpose other than for SDG&E Activities conducted in accordance with this Agreement, the Permits and the Subregional Plan. SDG&E's agreement to limit its use of such rights-of-way shall remain effective for so long as USFWS and CDFG continuously uses such rights-of-way in combination with other real property rights acquired by USFWS and CDFG in adjoining property, the use of which is subject to similar limited or restricted uses, to establish functional and effective corridors for Covered Species between separated Habitat and Preserve Areas, and, for so long as such corridors are properly functioning and necessary

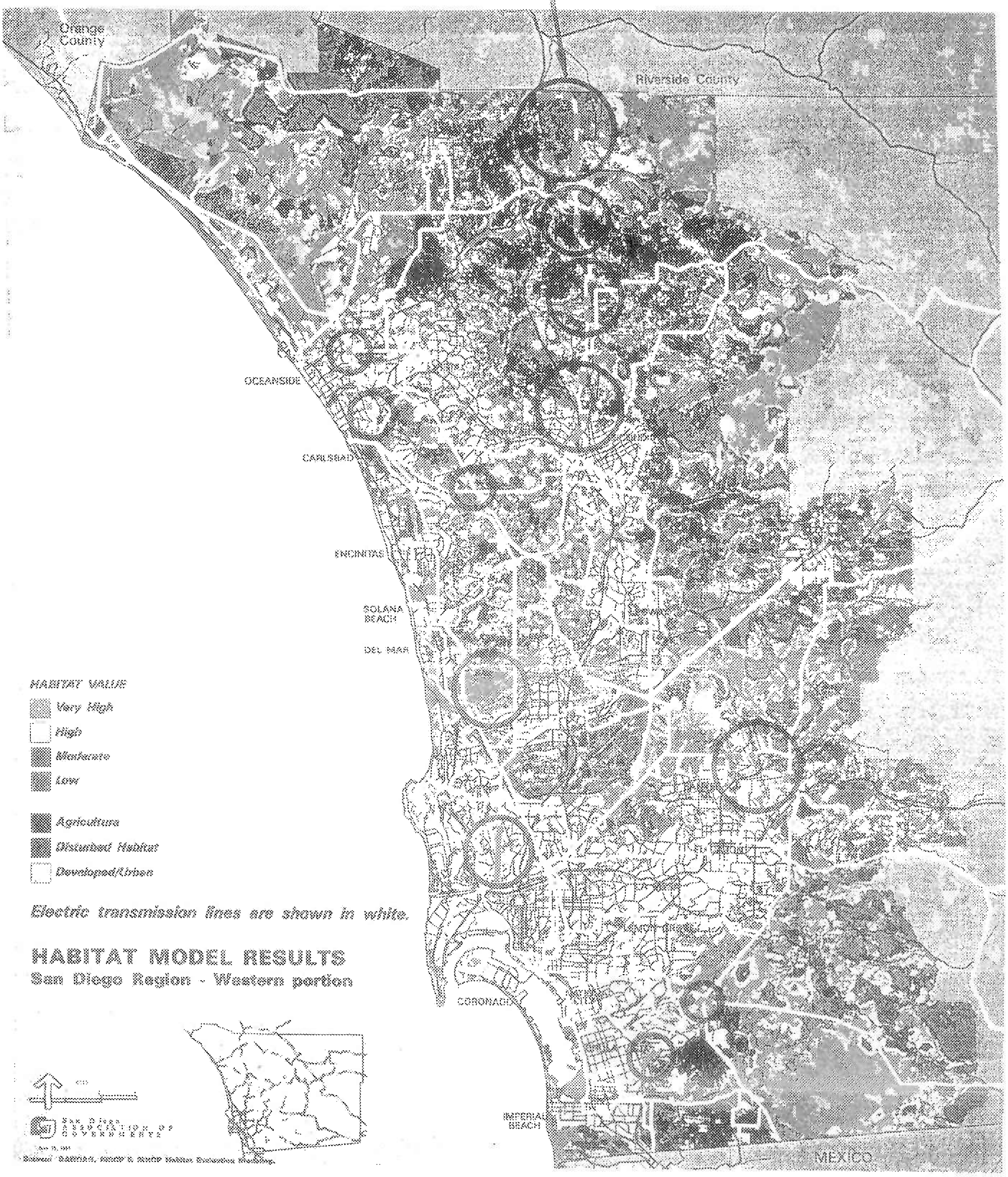
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for the conservation of Covered Species. SDG&E's agreement to limit the use of such rights-of-way will be memorialized in a negative or open space easement in favor of USFWS and CDFG, or their designee, and recorded in the County Recorder's Office for the county in which such rights-of-way are located. Such easement shall be substantially in the form of the easement attached hereto. However, in the event that any of such rights-of-way shall cease to be an essential element of a properly functioning, effective and necessary corridor, all easement rights conveyed by SDG&E affecting any such right-of-way shall terminate and revert back to SDG&E without limitation or reservation.

To the extent SDG&E rights-of-way extend over land in which it does not hold an undivided fee ownership interest, SDG&E agrees to approve of and when appropriate, encourage the conveyance, grant or dedication of such land by the fee owner to any relevant Habitat Conservation Planning Management entity for wildlife conservation purposes; provided, however, any such conveyance, grant or dedication shall be subject to the authorizations and Permitted Activities granted by USFWS and CDFG to SDG&E herein and to the rights of SDG&E to use such property for public utility purposes to the extent SDG&E held such rights, in law or in equity, at the time of such conveyance, grant or dedication. SDG&E further agrees, where the company's land rights allow, to prevent the underlying land owner from removing habitat within rights-of-way of significant habitat value to the extent feasible.

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Fee Owned Rights-of-Way are Designated with Pink Lines Within Black Circles - Typical

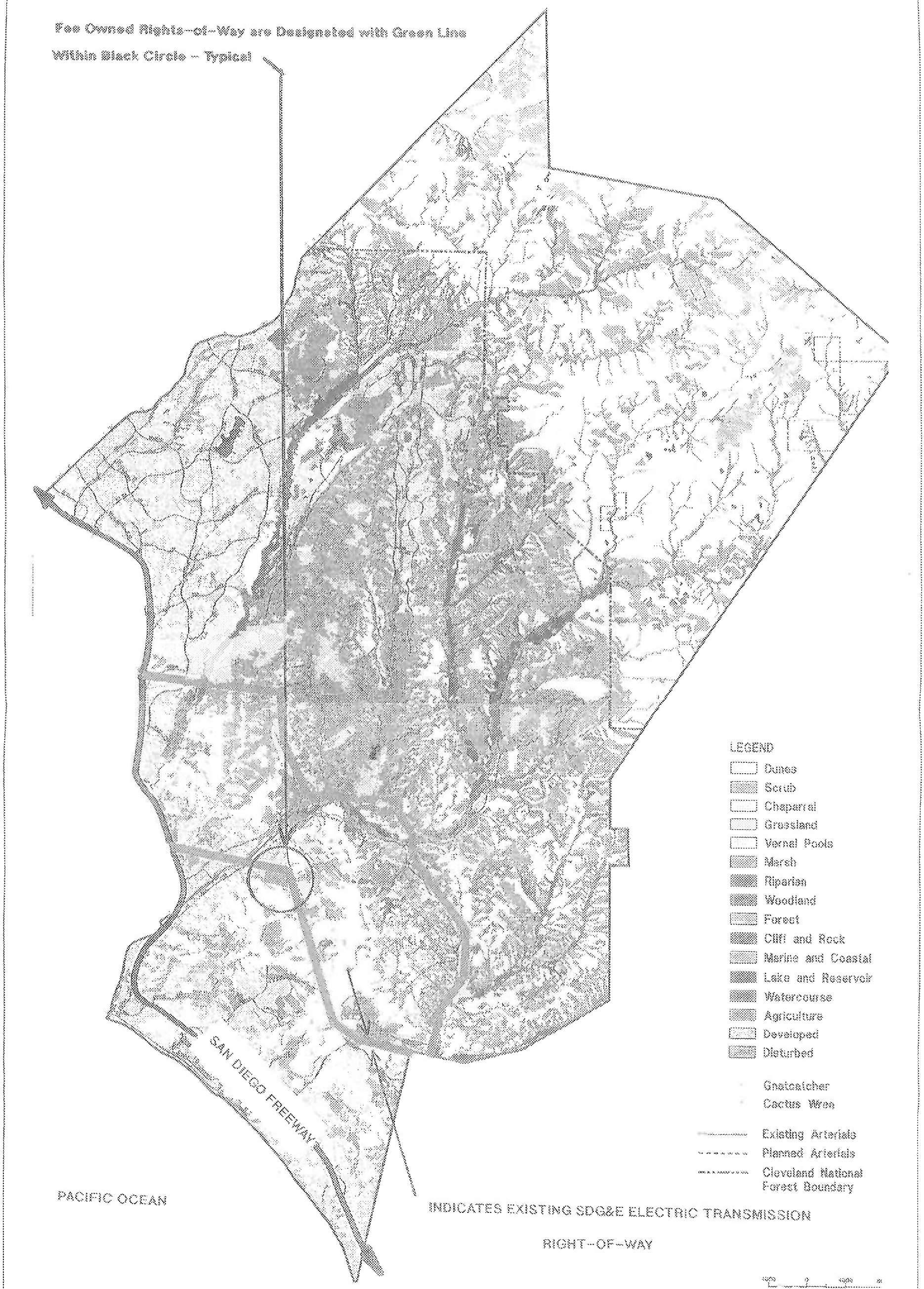


HABITAT MODEL RESULTS

San Diego Region - Western portion

FIGURE 25a

SDG&E Electric Transmission System Fee Owned Rights-of-Way



SDG&E Electric Transmission System Fee Owned Rights-of-Way

FIGURE
25b

7.4 Mitigation Credits

SDG&E will provide the USFWS and the CDFG with funds to enable the procurement of approximately 240 acres of high quality habitat land. The provision of such funds will create a conservation bank in favor of SDG&E in which SDG&E will hold approximately 240 acres of Mitigation Credits for impacts to covered species or their habitats which result from SDG&E Activities. Mitigation Credits associated with the SDG&E Subregional Plan will be drawn upon and deducted from available Mitigation Credits to mitigate for unavoidable impacts associated with SDG&E Activities. Habitat enhancement opportunities may be available and pursued prior to such deductions being taken from the SDG&E Mitigation Credits as discussed in Section 7.2.

The habitat associated with the SDG&E Mitigation Credits is of very high value. The location and configuration of the land will play a critical role in meeting region-wide conservation goals. As such, the Mitigation Credits serve as mitigation for both in-kind and out-of-kind covered species and habitat impacts, without regard to the type of habitat and the biological value of the habitat impacted, except with regard to wetlands falling within the jurisdiction of the Army Corps of Engineers pursuant to Section 10 of the Rivers and Harbors Act and Sections 403 and 404 of the Clean Water Act.

In the Annual Report which will be prepared as a condition of this Plan, the general condition of the habitat assoicated with the Mitigation Credits will be discussed, with special attention paid to changes in the habitat such as from stochastic events like fires and drought. The Report will also include a table showing how many credits were used from the Mitigation Credits (expressed in acres) and how many are left.

Also in the Annual Report will be an analysis jointly prepared by SDG&E, CDFG and USFWS on the performance of the management entity who are overseeing the day-to-day

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operations of the habitat associated with the Mitigation Credits. It may be necessary based on the outcome of that reporting to transfer control to CDFG or USFWS, if all of the parties agree.

The ratio between impacts from Activities and corresponding deductions from the Mitigation Credits are as follows:

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Table 7.4

ACTIVITY	LOCATION	DURATION	RATIO
New Facilities	Inside Preserve*	Permanent	2:1
	Inside Preserve	Temporary	(a)(c)
	Outside Preserve	Permanent	1:1
	Outside Preserve	Temporary	(a)
Maintenance of Existing Facilities	Inside Preserve	Permanent	2:1
		Temporary	(a) (b)
	Outside Preserve	N/A	(b)

(a) Temporary impacts are mitigated through basic site remediation which, includes native hydroseed for erosion control. However, if roots are not grubbed during temporary impacts, the hydroseeding may not be necessary. This applies to areas greater than 500 square feet, and only where grubbing occurred. For all temporary impacts greater than 500 square feet, acreage not meeting success criteria shall be deducted from SDG&E mitigation credits at a 1:1 ratio.

(b) Impacts associated with maintenance of existing facilities are mitigated for the term of the permit by SDG&E's agreement to restrict development other than SDG&E activities on fee-owned rights-of-way which contain habitat, connect fragmented habitat areas, or contribute to the habitat carrying capacity of the Preserve Areas in the region. SDG&E agrees to limit its use of such rights-of-way to utility activities.

(c) Same as (a), except that any portion of the temporarily impacted area which does not revegetate in accordance with Section 7.2 and the Mitigation Flow Chart attached as Figure 24, then acreage not meeting success criteria shall be deducted from the SDG&E Mitigation Credits.

*The term "Preserve" in Table 7.4 means the area encompassed by the MSCP's Multi-Habitat Planning Area (MHPA) map (as currently defined or ultimately adopted), the equivalent maps for the MHCP and MHCOS programs in San Diego County, the South Orange County NCCP Subregional Plan reserve area, and the Riverside County Conservation Agency Core reserve areas. If no preserve areas are formally delineated, those areas which are designated moderate, high, and very high quality habitat on habitat on evaluation maps prepared for the respective planning areas are considered the "Preserve."

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8 Alternatives

Within its service territory, the demands of customers for electric power and natural gas are met by SDG&E. As a public utility, SDG&E is required by Public Utilities Code Section 451 to provide these utility services in a safe and reliable manner. The CPUC has the authority under Public Utilities Code Sections 701, 761 and 762 to require public utilities to establish and maintain the facilities and property rights which are necessary to provide safe and reliable service. In addition, SDG&E sets corporate goals in an effort to attain the highest quality and dependability of service at the lowest rates it can achieve.

These customer demands, legislative mandates, regulatory controls and corporate goals require that SDG&E install new facilities necessary to meet the growing demands of its customers, and that such new facilities and all existing facilities be adequately maintained and repaired to ensure safety and reliability. This Subregional Plan addresses such installation, operation, maintenance, and repair Activities and their potential to impact Covered species or their habitat.

The curtailment of any aspect of the SDG&E Activities would render SDG&E's public utility services, to a greater or lesser extent, inadequate to meet demand, inefficient, unsafe, and unreliable.

An alternative to this Subregional Plan is to do no conservation plan at all. The no plan alternative would mean that the SDG&E Activities described in the Subregional Plan would remain subject to "take" prohibitions of ESA and CESA. Incidental Take permits would be required for such Activities on a project by project and species by species basis. The case by case process of permitting is cumbersome. It has the potential to miss or to inadequately examine protective and conservation issues and measures, which may be too

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ill defined, unrecognized or vague to enable a clean and meaningful impact analysis or to articulate needed mitigation measures. This Subregional Plan addresses such issues from an ecosystem or habitat basis, wherein such protections or conservation measures are affected, whether or not defined, as a functioning aspect or part of the protected and covered ecosystem or habitat. Because this Subregional Plan provides comprehensive multiple species and habitat conservation, and is not limited to listed species, it provides a net benefit to the environment in that it protects and conserves species in a manner which may prevent any future listing of such species. In addition, the Subregional Plan provides SDG&E with long term predictability concerning the nature of its operations for which in takings are permitted, avoiding cumbersome procedures and potential facility compromising delays.

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9 Funding

Funding requirements must be guaranteed in order for this Plan to be implemented. Therefore, SDG&E must be solvent enough to provide the financial confidence that will constitute such a guarantee. SDG&E has served the San Diego area for over 114 years. The Company's evident stability is reflected in an A+ Standard & Poor's bond rating, an A1 bond rating by Moody's, and by the historical fact that SDG&E has not missed a dividend in 84 years. In 1994, SDG&E's operating revenues exceeded operating expenses by $321,916,000.00. The fiscal health is such that SDG&E was able to declare a dividend of $1.52 for each of its 116,484,000 shares of common stock for a 9.1% return on common equity. These figures, along with the Company's financial history should provide adequate assurance that SDG&E has the fiscal soundness to fulfill its financial commitments with regard to the implementation of this Plan.

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10 Acknowledgments

This plan was prepared over a two-year period by San Diego Gas & Electric staff and consultants, with support from several outside entities. Any omission of names is not intentional.

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DATA BASE SUPPORT

Timothy J. Hurley, GIS Project Manager, SDG&E
Ogden Environmental & Energy Services Company (MSCP & MHCP biological data)
Dudek & Associates (MHCP & South Orange County biological data)
RECON (Riverside County biological data)
County of San Diego (MHCOS biological data)
San Diego Association of Governments (GIS support)

WILDLIFE AGENCIES

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Theresa Stewart, California Department of Fish & Game
Sherry Barrett, United States Fish & Wildlife Service
Jacalyn Fleming, United States Fish & Wildlife Service

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Appendix A
Scope of Preactivity Study

The purpose of the preactivity study is to determine the presence or absence of sensitive resources on or in the vicinity of a project area. Preactivity studies may be appropriate for any type of SDG&E field operation in a natural area. Prior to activities off of access roads in natural areas , the Environmental Surveyor conducts a preactivity study and records the findings of the study on the Preactivity Study Form (See Figure 26, pages 1 and 2). The preactivity study documents information such as:

- Type, location, and size of project
- Date, time, weather, and surrounding land uses
- Evaluation of type and quality of habitat
- Work description and methods which will be used to avoid or minimize ground disturbance, including biological monitoring during construction
- Anticipated impacts (if any) and proposed mitigation, i.e., enhancement or deduction from mitigation credits
- Map of location of work area

This Environmental Surveyor's recommendations regarding how to complete the project while avoiding or minimizing disturbance to environmental resources is detailed verbally to field personnel and followed by written documentation. The preactivity study will be conducted no earlier than 30 days before the surface disturbing activity. If surface disturbance has not commenced within 30 days, the Environmental Surveyor will conduct a verification study. The Environmental Surveyor's verbal and written recommendations will be submitted to the field crew within 1 week of conducting the study and prior to the activity.

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The Preactivity Study Form is also faxed to CDFG and USFWS, along with telephone notification who will reply within 5 working days, indicating if they would like to review the project. When a project can be completed avoiding impacts to natural resources, notification of CDFG and USFWS is for information only, and will not require approval, SDG&E's project may proceed during this time if necessary.

However, when the project cannot be completed without impacts, thus necessitating mitigation, CDFG and USFWS concurrence is required on the need for post-project site enhancement and on the enhancement method. For all new Facilities and related Activities, if Habitat cannot be avoided, a qualified biologist shall be called in to perform surveys following methodologies accepted by the Service. Upon receipt of the Preactivity Study Form, CDFG and USFWS has 15 working days to concur with the enhancement method. If CDFG and USFWS concurrence is not conveyed within 15 working days, the need for post-project enhancement and the enhancement method will be conducted in accordance with the enhancement method specified in the notice.

In both cases, the data recorded on the Preactivity Study Form is then entered into a SDG&E computer data base which is used to develop SDG&E's annual report to the CDFG and USFWS.

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Preactivity Survey Form

LPPM Field ID #: _____

Date Request Rcvd: _____

Project Name: _____

Address/Location: _____

Project Type: _____

Originating Dept: _____

Requestor: _____

Requestor Phone #: _____

LPPM Field Rvwr: _____

LPPM Fld Rvwr Phone #: _____

Project Budget #: _____

Const #/Work Order: _____

Account #: _____

Function Code: _____

Date of Field Survey: _____

Weather Conditions: _____

Site Elevation: _____

Thomas Bros Ref #: _____

APN: _____

Field Survey Start Time: _____

Field Survey Stop Time: _____

Hours Spent in Field: _____

Linear Feet: _____

Square Feet: _____

Biologist Required?: _____

Total Hours Spent on This Request: _____

Preactivity Survey Form (sheet 2 of 2)

Project Name_____

Field ID#_____

Surrounding Land Use/Habitat

North_____

South_____

East_____

West_____

Proposed Work Description

Habitat Evaluation

Reviewer Recommendation

26
page 2

Appendix B
SDG&E Environmental Surveyor Program Certification

GOAL

SDG&E shall implement and comply with the terms of the NCCP Subregional Plan (Plan) by utilizing a professional staff familiar with land use planning and environmental protection techniques.

DEFINITION OF STAFF

SDG&E staff is defined as employees of SDG&E or its independent agents, contractors, consultants practicing land use planning, biology, or similar profession and capable of implementing the terms and goals of the Plan.

BIOLOGICAL RESOURCES TRAINING PROGRAM

To ensure adequate training, staff shall be trained and tested by a recognized independent environmental consultant with experience in environmental biology. Specific focus shall be to ensure that all of the species of plants and animals covered by the Plan can be identified and protected during operation, maintenance, and new construction activities. The consultant shall provide a certification for "Environmental Surveyor" to staff members successfully fulfilling the requirements of the training program.

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Specifically, training for SDG&E staff shall consist of a 10-week, 40-hour course called the "Comprehensive Biological Resource Training Program." The Program's curriculum, goals, and objectives are attached as "Exhibit A." From time to time in consultation with the wildlife agencies, the program curriculum will be revised and updated.

TESTING

SDG&E shall test and will continue to test its staff periodically for competency in relevant environmental science and field work expertise.

STAFF SKILLS REQUIREMENTS

SDG&E staff shall be capable of implementing the following:

A) Prior to maintenance activity, SDG&E operations, or project construction:

- Conducting preliminary site visits to determine the extent and location of native vegetation communities and native wildlife within each project area.
- Assess the potential for the presence of sensitive habitats, plants or wildlife species on the site; especially species listed as threatened or endangered at the state or federal level.
- Review existing databases and general references to compile known records of sensitive species in the vicinity of the site.
- Determine the need for further biological assessment by expert biologists.

B) In cases where no further analysis (by expert biologists) is required:

- Document the existing vegetation communities and representative wildlife species.
- Determine the extent and location of project impacts.
- Advise field crews on methods for proceeding, which avoid impacts to sensitive areas, and implement other Operational Protocols as appropriate.
- Recommend specific mitigation measures to offset unavoidable impacts.
- Monitor construction or maintenance activities to avoid impacts to sensitive areas.
- Prepare follow-up reports describing the work completed and effect of project on biological resources.

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C) In cases where further analysis is required by biological experts:

- Work with expert biologist to ensure comprehensive analysis is completed.

STAFF CERTIFICATION

SDG&E shall provide an updated list of qualified staff and copies of the Environmental Certification during the month of January each year to CDF&G and USFWS for review and record keeping. Copies of classroom work and testing shall only be submitted at the first certification of each qualified staff member. Thereafter, only copies of their Environmental Surveyor certification shall be provided on a yearly basis. Additional qualified staff members may be added to the list during the year by submitting copies of their class work, testing results and Environmental Certification.

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EXHIBIT "A"

SAN DIEGO GAS & ELECTRIC COMPANY
ENVIRONMENTAL TRAINING PROGRAM
CURRICULUM /
GOALS AND OBJECTIVES

1) *Establish a broad overview of ecology, ecosystems, and the science of conservation biology.*

a) Describe the flow of energy, nutrients, and water through an ecosystem including role of autotrophs, heterotrophs, nitrogen fixation, photosynthesis, and energy break down. Identify examples of these basic processes in southern California ecosystems.

b) Describe the basic components of an ecosystem (primary producer, consumer, tertiary consumers, etc.) Identify examples of these trophic levels in southern California's ecosystems.

c) Describe the general effects of development on natural ecosystems including removal of native diversity, disruption of natural systems (eutrophication), and the benefits of habitat restoration.

d) Define the physical and biological factors that make southern California an unusual region.

2) *Use standard biological references and field guides to identify vegetation communities, and plant and wildlife species common to southern California ecosystems.*

a) Identify the dominant indicator plant species for common vegetation communities with southern California.

b) Identify the common reptile, bird, and mammal species in southern California's ecosystems.

c) Be able to prepare detailed vegetation map of a particular area and identify dominant plants in each community,

d) Understand how to use dichotomous keys for identifying common plants of coastal sage scrub, chaparral, and riparian habitats.

e) Create a library of natural history field guides including standards guides for plants, reptiles, birds, and mammals.

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f) Create a matrices of habitats and key indicator species.

3) *Use range maps, species accounts, existing biological resources assessments, and data bases to determine the general biological setting and determine the potential for a particular area to support sensitive habitat, plants, or wildlife.*

a) Define what habitats and sensitive species may occur in a particular area of interest before initiating a field survey.

b) Determine the appropriate references for acquiring additional information on specific biological resources.

4) *Identify typical habitat types for federally listed and State listed wildlife species throughout southern California with a focus on the coastal California gnatcatcher, lease Bell's vireo, southern willow flycatcher, southwestern arroyo toad, and Pacific pocket mouse.*

a) Understand basic biology of the coastal California gnatcatcher, lease Bell's vireo, southern willow flycatcher, arroyo toad, and Pacific Pocket mouse, including biology, habitat requirements, and potential impacts to these species associated with SDG&E's activities.

b) Be familiar with the diversity of sensitive species throughout the region (Species of Concern) with emphasis on those plants and wildlife species typically encountered in coastal sage scrub habitats.

c) Determine the appropriate season for sensitive species surveys.

d) Determine the need for professional biologists to conduct focused surveys.

5) *Understand basic principles of conservation biology focusing on the viability of populations and the process of local extinction.*

a) Compare and contrast the genetic, stochastic, demographic, and environmental factors affecting the stability of a population.

b) Define the effects of habitat fragmentation and the importance of wildlife movement corridors to maintaining stable populations.

c) Describe Soule's "extinction vortex" and how it may apply to small and fragmented populations in southern California.

d) Identify wildlife movement corridors by topography, vegetation, and surrounding urbanization.

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6) *Understand the history of state and federal laws affecting wildlife management with a focus on Sections 4, 7, 9, and 10 of the federal Endangered Species Act and the Natural Community Conservation Plan. Understand how the Endangered Species Act works in conjunction with CEQA, NEPA, and the Fish and Game Code (including CESA).*

a) Describe the evolution of and need for wildlife management laws from the Lacey Act, Migratory Bird Treaty Act, and Endangered Species Act.

b) Describe basic components of the federal Endangered Species Act.

c) Describe "take" as it pertains to southern California with reference to harassment, removal of potentially occupied habitats, and direct removal of occupied habitats.

d) Describe the listing process and Candidate system and why this system is currently under review.

e) Compare and contrast the Section 7 and Section 10 processes.

f) Describe the components of a Biological Assessment and Habitat Conservation Plan.

g) Describe the NCCP and how habitat-based conservation plans differ from the single species conservation.

h) Describe pertinent projects, decisions, and controversies surrounding the federal Endangered Species Act.

7) *Understand the basic component of Section 404 of the Clean Water Act and Section 1600 of the Fish and Game Code with emphasis on determining the need for professional delineation of wetlands and stream courses through an area. Identify wetland versus upland vegetation, hydric soil types, and "unusual" wetlands such as vernal pools and ephemeral streams.*

a) Define the basic component of Section 404 and Section 1600.

b) Create a checklist for wetlands, including soils, hydrology, and vegetation.

c) Identify common wetland indicator species.

d) Use the basic methods and reference material pertaining to official wetland delineations.

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e) Understand need for professional advice on determining full extent of "wetlands" in xeric habitats.

8) *Incorporate the various methods of habitat restoration and revegetation in coastal sage scrub and wetland habitats into biological mitigation programs.*

a) Compare and contrast the basic methods of coastal sage scrub revegetation, including hydroseeding, native regrowth, and container planting.

b) Compare the contrast the basic methods of wetland restoration for southern California's riparian ecosystems with emphasis on mulefat scrub and willow scrub habitats.

c) Determine the projects requiring irrigation and those that may function well without irrigation.

d) Understand ecological benefits of erosion, control measures, removal of weeds (especially giant reed grass), cowbird trapping, controlled human access, fencing, interpretive signs, and other mitigation measures.

e) Describe mitigation banking and site-specific measures and how these methods can work together.

9) *Establish the forms, methods, and review system for Preactivity Survey and conduct a Preactivity Survey.*

a) Create a field survey form identifying all pertinent aspects of the biological setting requiring review during a Preactivity Survey.

b) Conduct a Preactivity Survey to determine the extent and location of native vegetation communities and the potential for the area to support sensitive biological resources, including sensitive habitats, corridors, plants, and wildlife.

c) Determine the need for further biological assessments by a professional biologist.

d) Incorporate photodocumentation into report preparation.

e) Prepare an annual report pertaining to all areas surveyed under the program.

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