









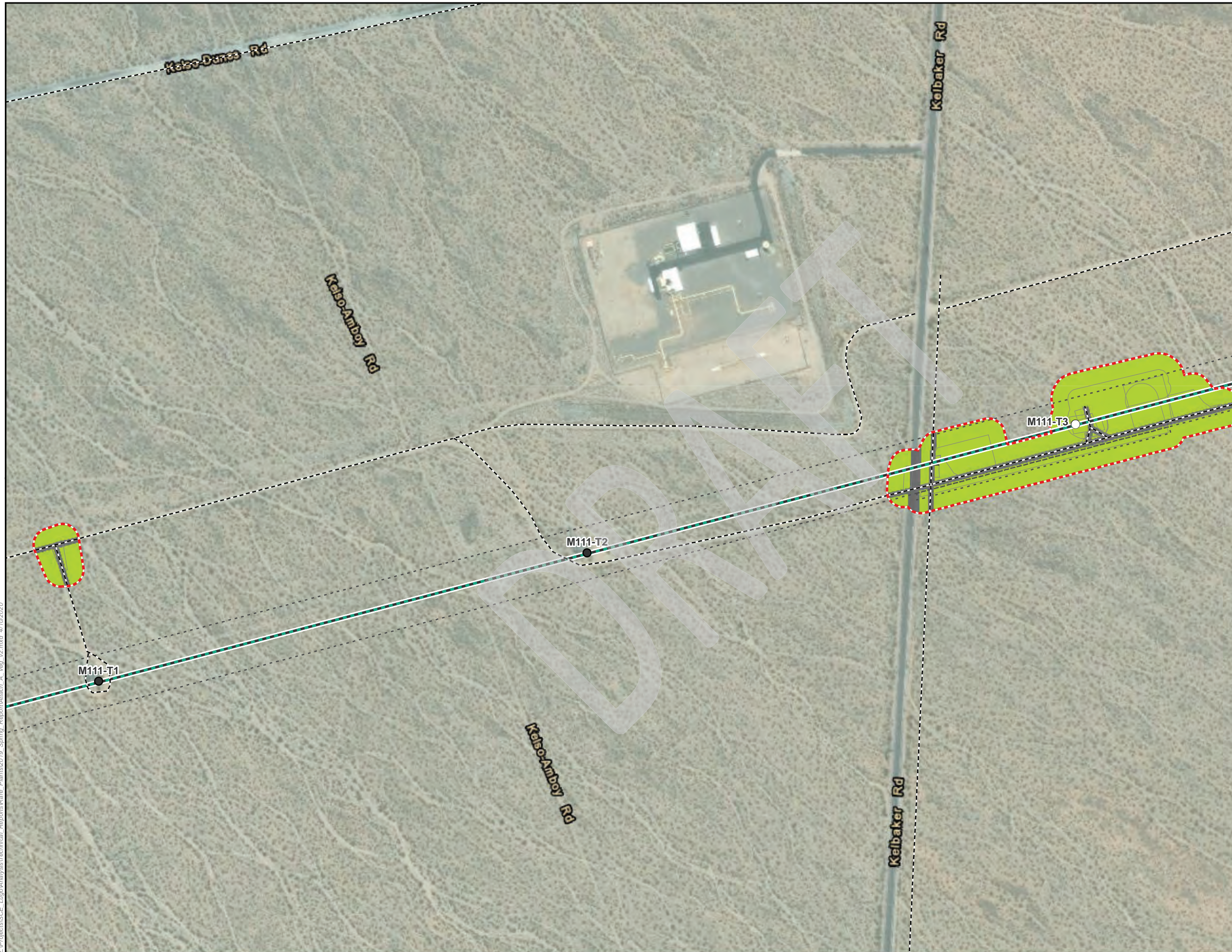


**Attachment A:
Vegetation Communities and Land Covers
Map 103 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**












-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Existing Distribution Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

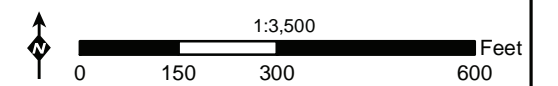


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 104 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola* - *Bebbia juncea* Shrubland Alliance
-  Developed
-  *Eriogonum fasciculatum* Shrubland Alliance
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance












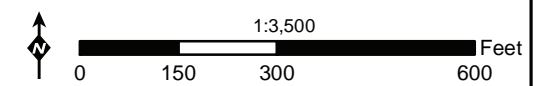
Source: Insignia, 2019; SCE, 2019

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**Attachment A:
Vegetation Communities and Land Covers
Map 105 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance

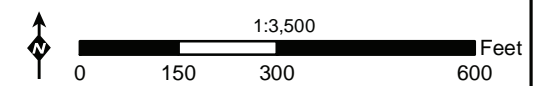


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 106 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance

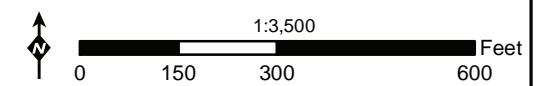
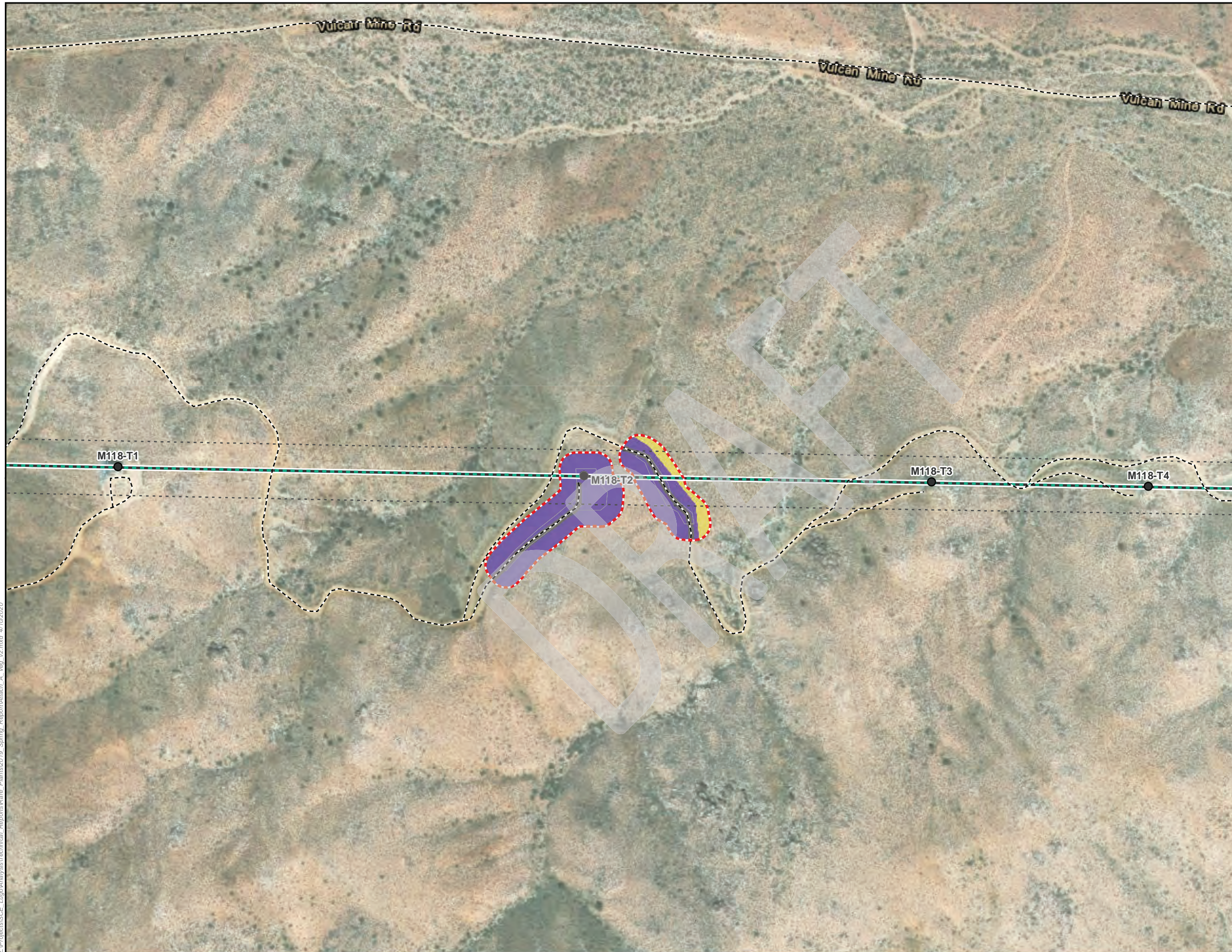


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 107 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Eriogonum fasciculatum* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance

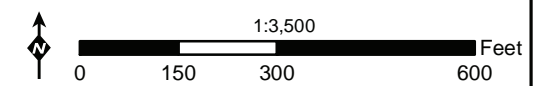


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 108 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**












-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola* - *Bebbia juncea* Shrubland Alliance
-  Developed
-  *Yucca schidigera* Shrubland Alliance

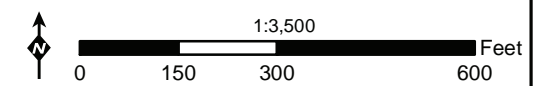
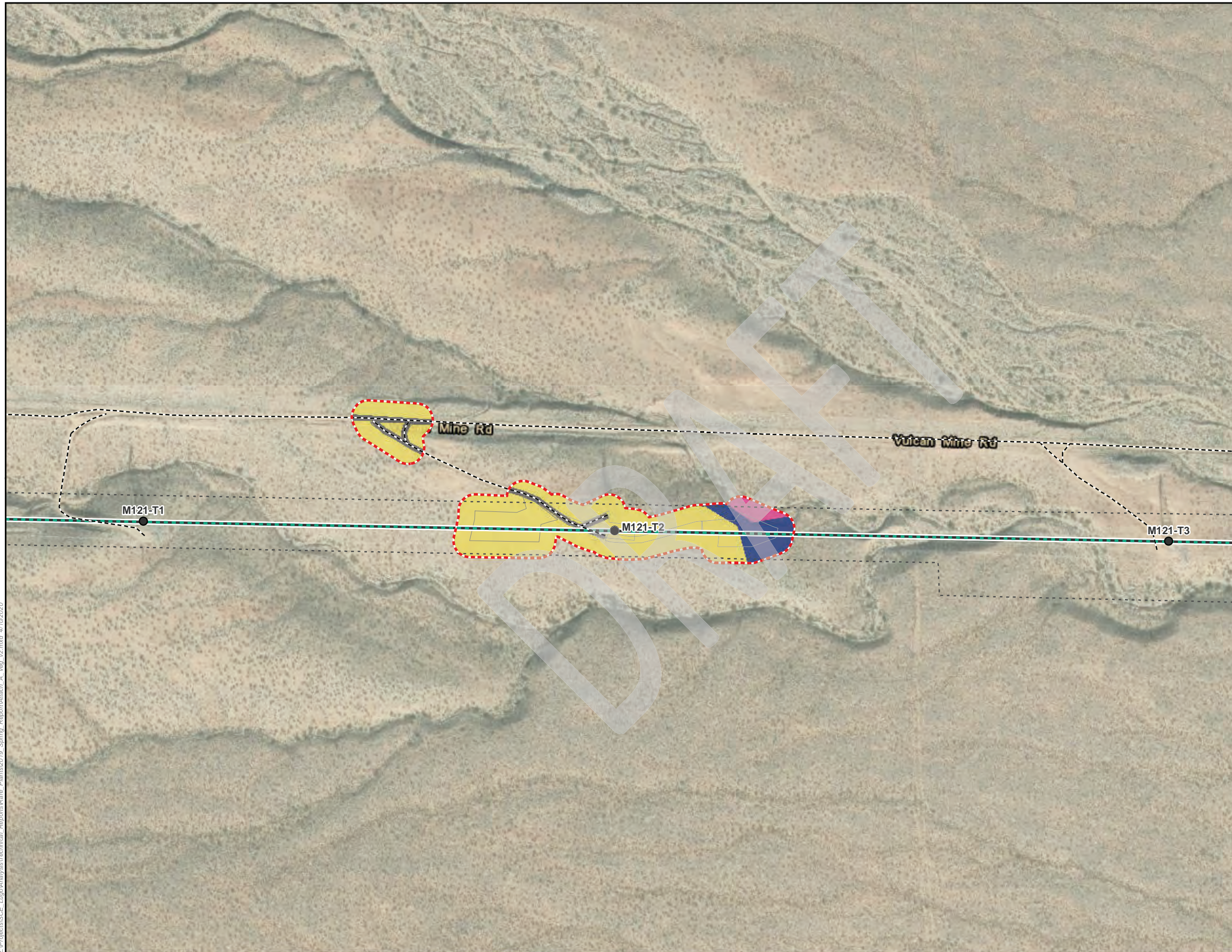


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 109 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance

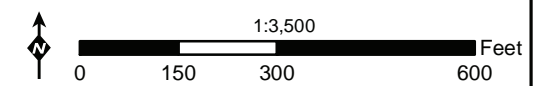


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 110 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Ericameria nauseosa* Shrubland Alliance
-  *Ericameria paniculata* Shrubland Alliance
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

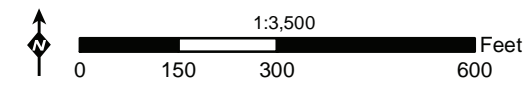


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 111 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance

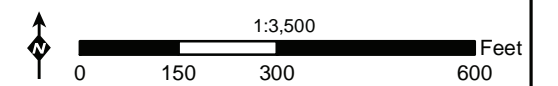
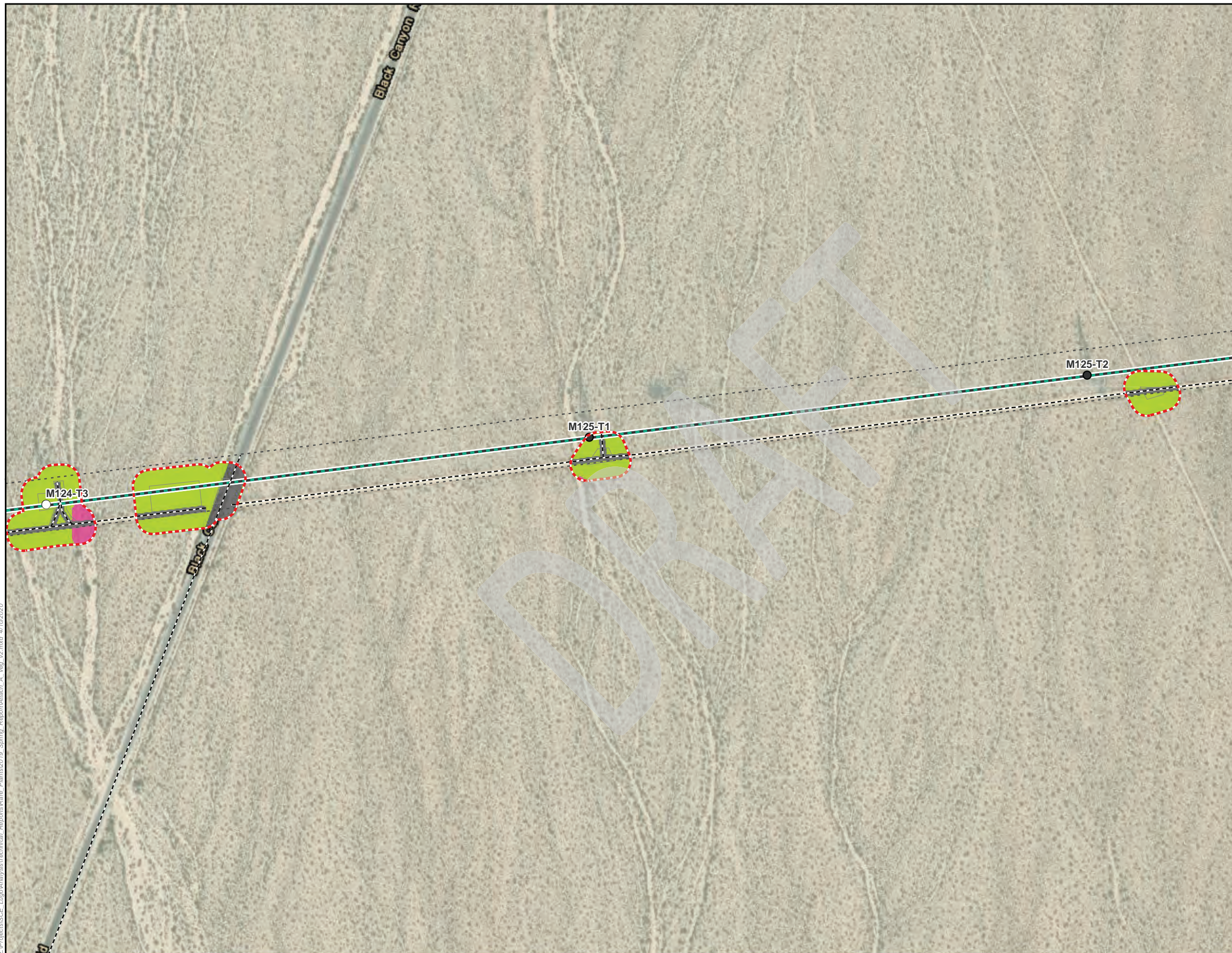


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 112 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance

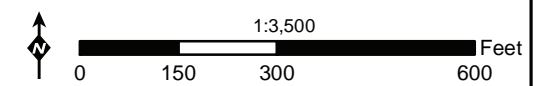


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 113 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia dumosa* Shrubland Alliance
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

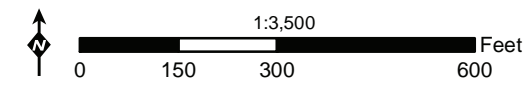
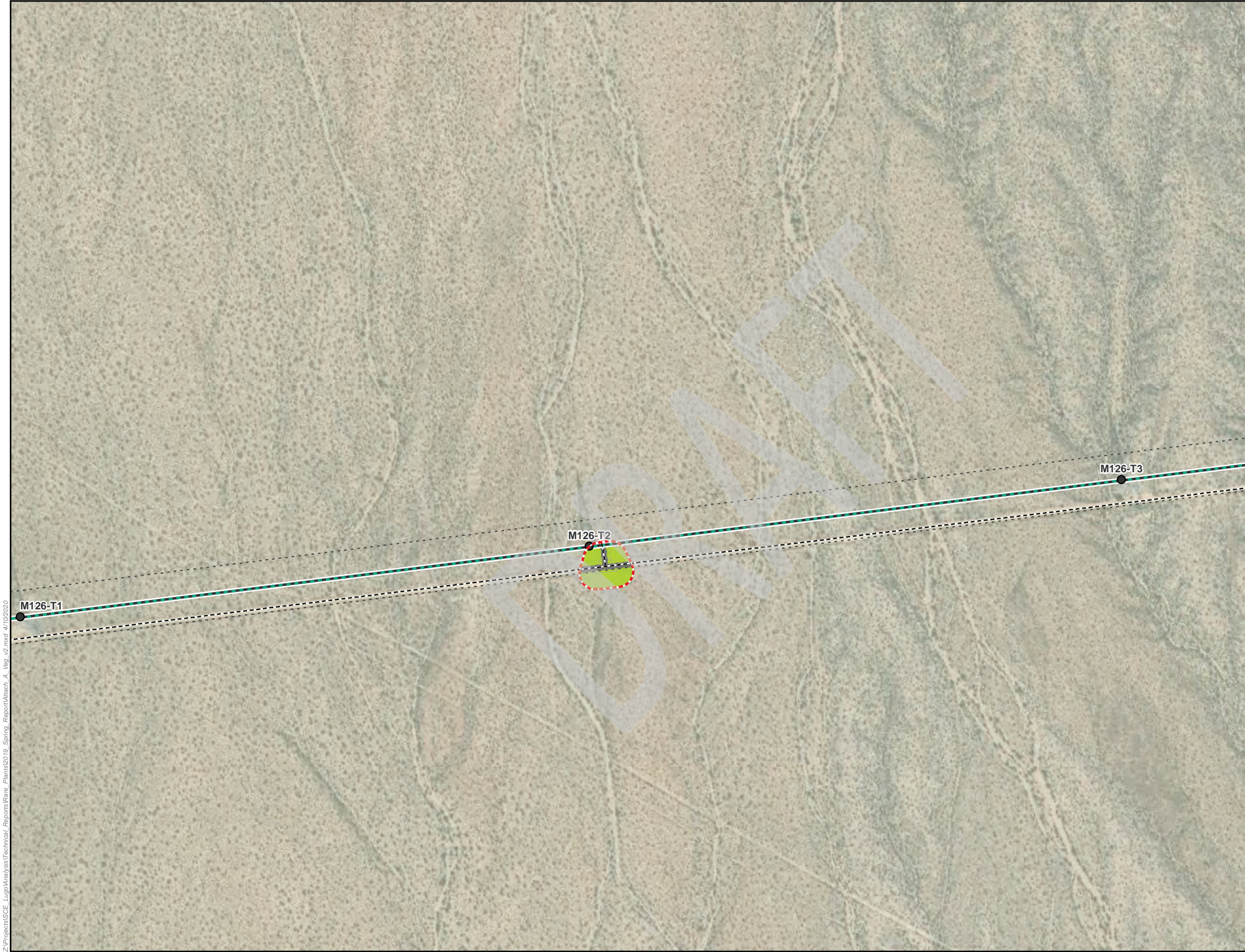


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 114 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**












-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

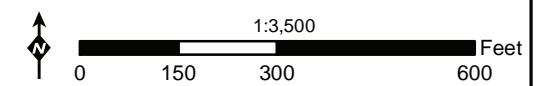
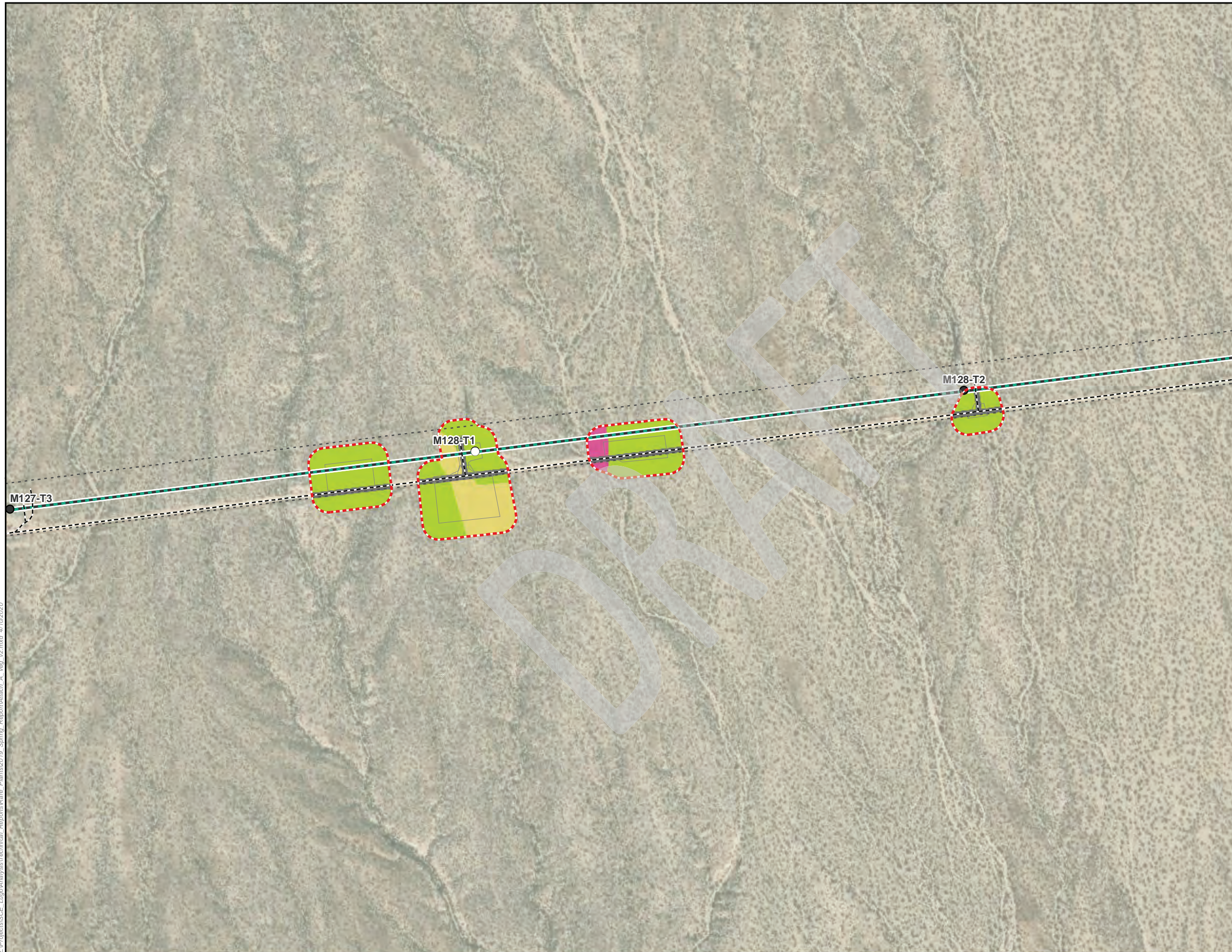


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**Attachment A:
Vegetation Communities and Land Covers
Map 115 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance

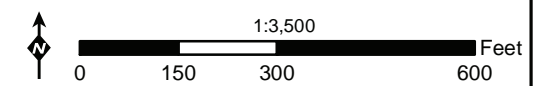


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 116 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

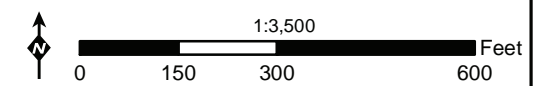


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 117 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance

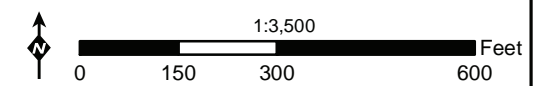


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 118 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance



Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 119 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Barren - Not Developed
-  *Chorizanthe rigida* – *Geraea canescens*
Desert Pavement Sparsely Vegetated Alliance
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

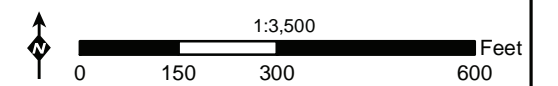


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 120 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance

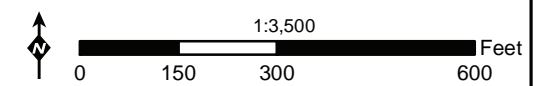


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 121 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance



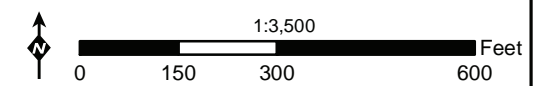
Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 122 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance











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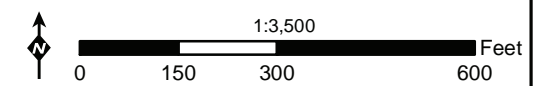
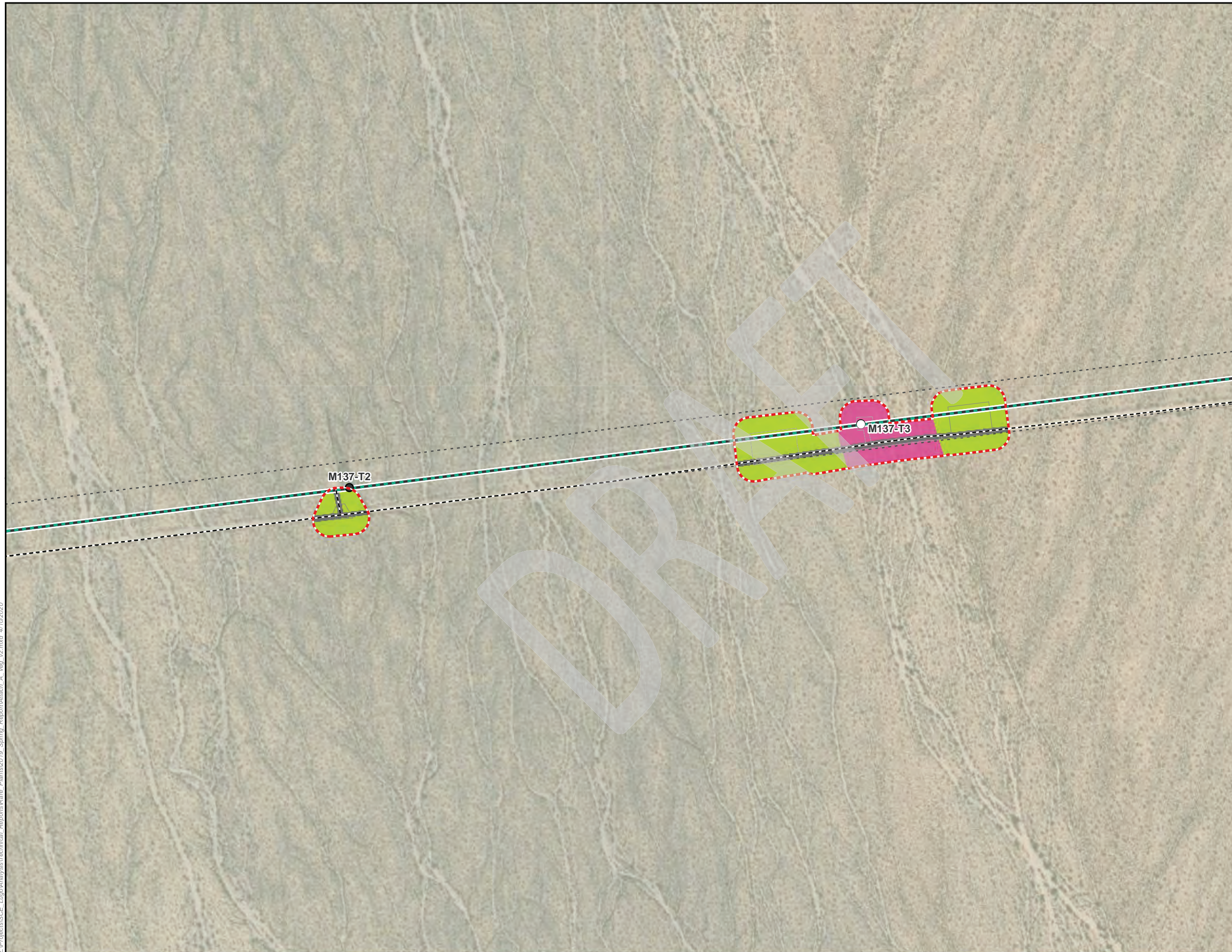


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 123 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance

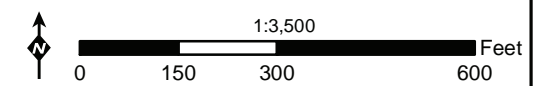


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 124 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance

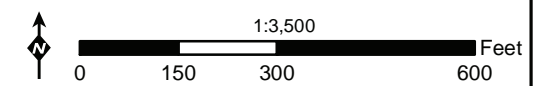
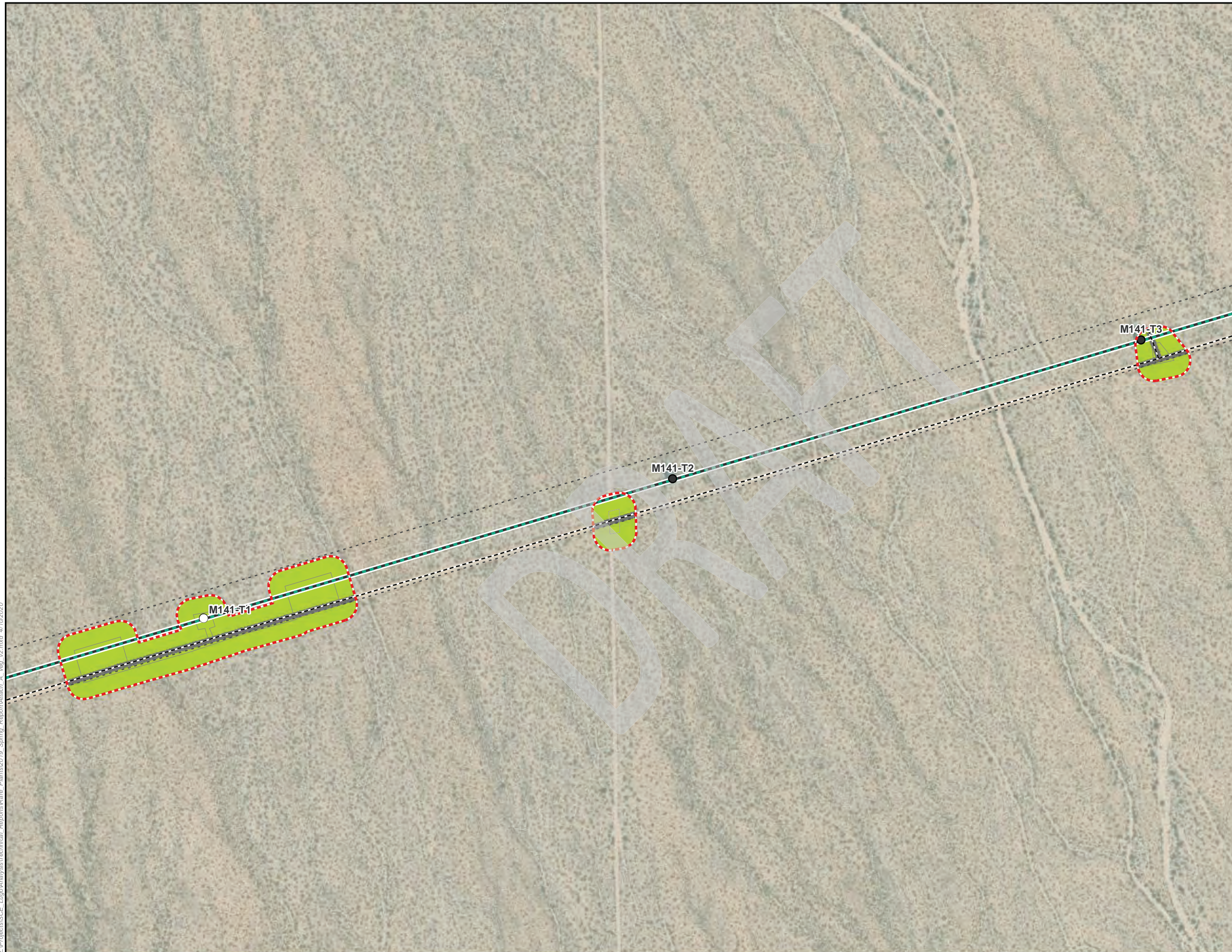


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 125 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

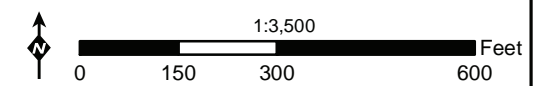
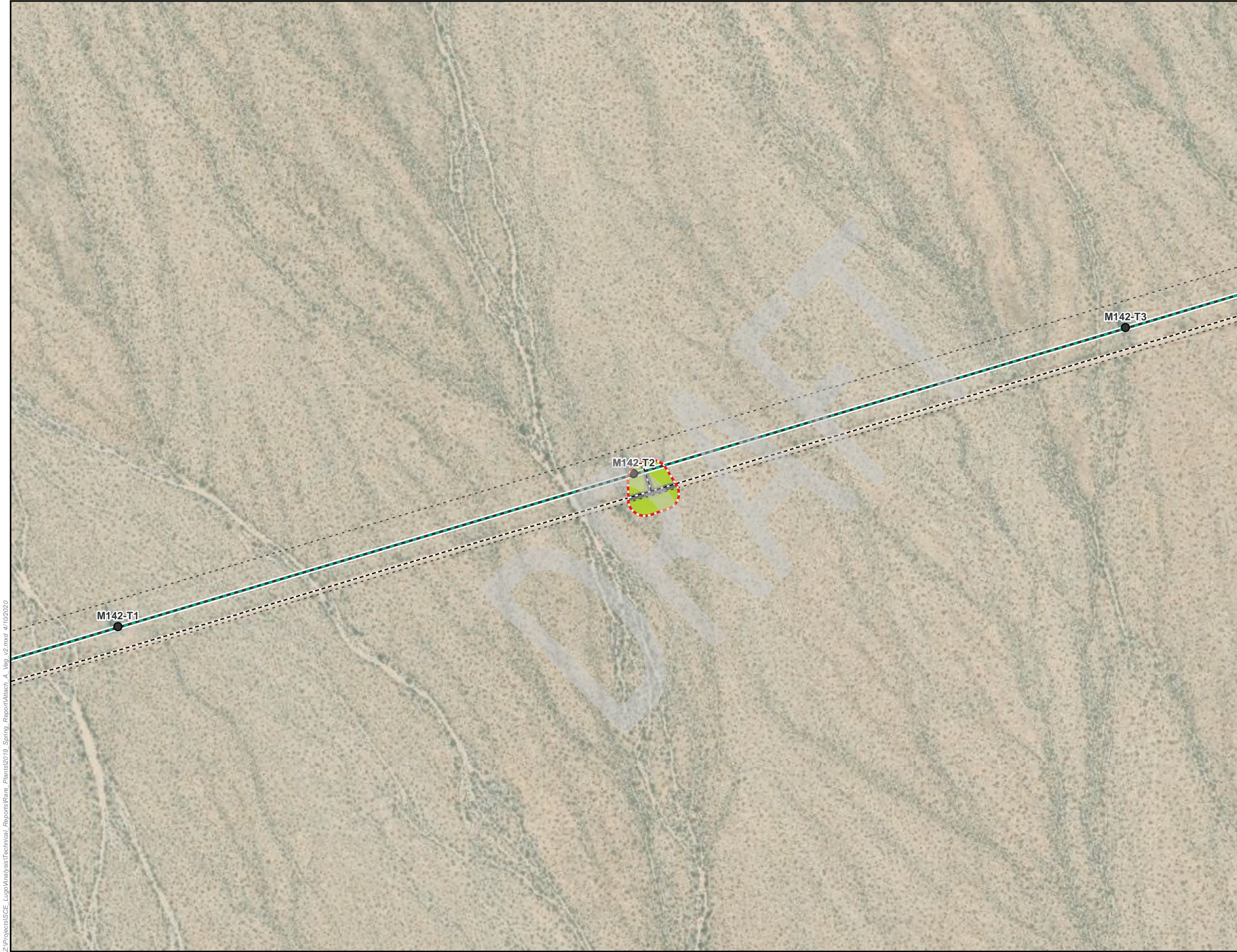


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 126 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**












- Survey Area
- Project Components**
 - Lugo - Mohave 500 kV Transmission Line
 - Existing Transmission Structure
 - Construction Area
 - Right-of-Way
 - Access Road
- Vegetation Community/Land Cover**
 - Developed
 - Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

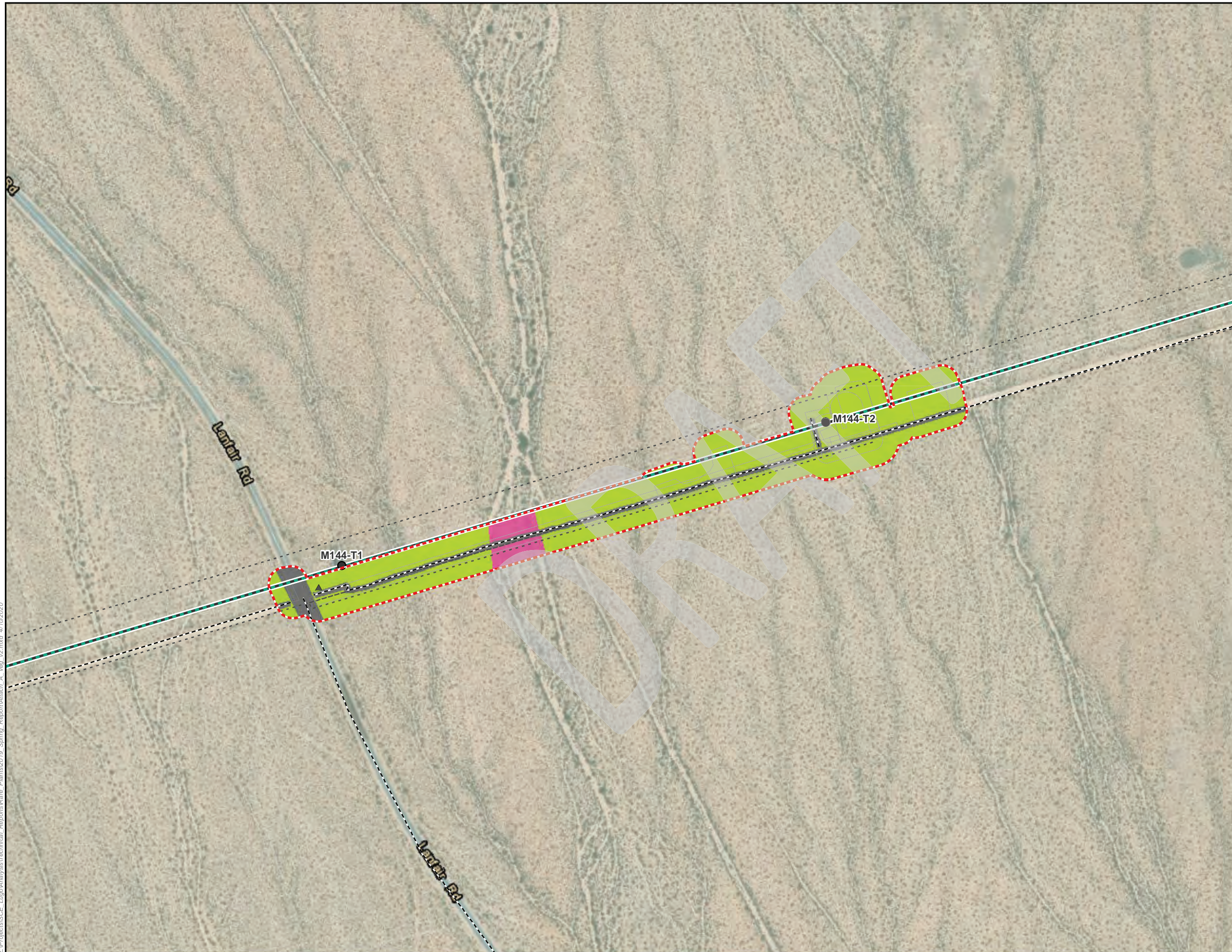


Source: Insignia, 2019; SCE, 2019

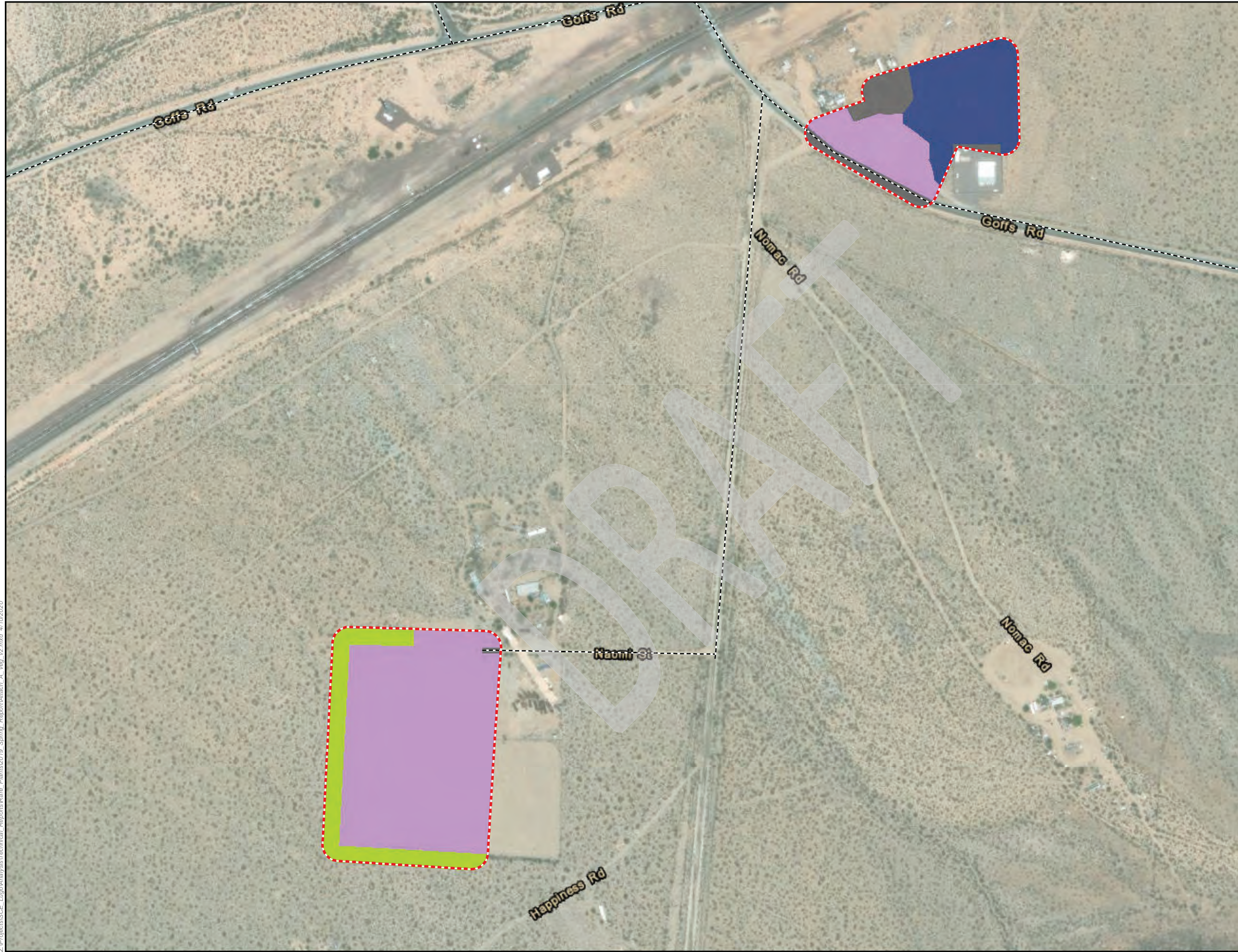
**Attachment A:
Vegetation Communities and Land Covers
Map 127 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Existing Distribution Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance



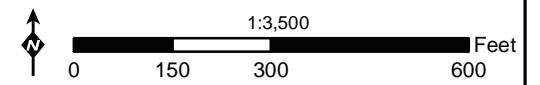
Source: Insignia, 2019; SCE, 2019



**Attachment A:
Vegetation Communities and Land Covers
Map 128 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

- Survey Area
- Access Road
- Vegetation Community/Land Cover**
- Barren - Not Developed
- Developed
- Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
- Larrea tridentata* Shrubland Alliance












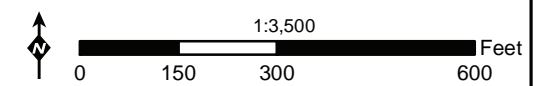
Source: Insignia, 2019; SCE, 2019

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**Attachment A:
Vegetation Communities and Land Covers
Map 129 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance

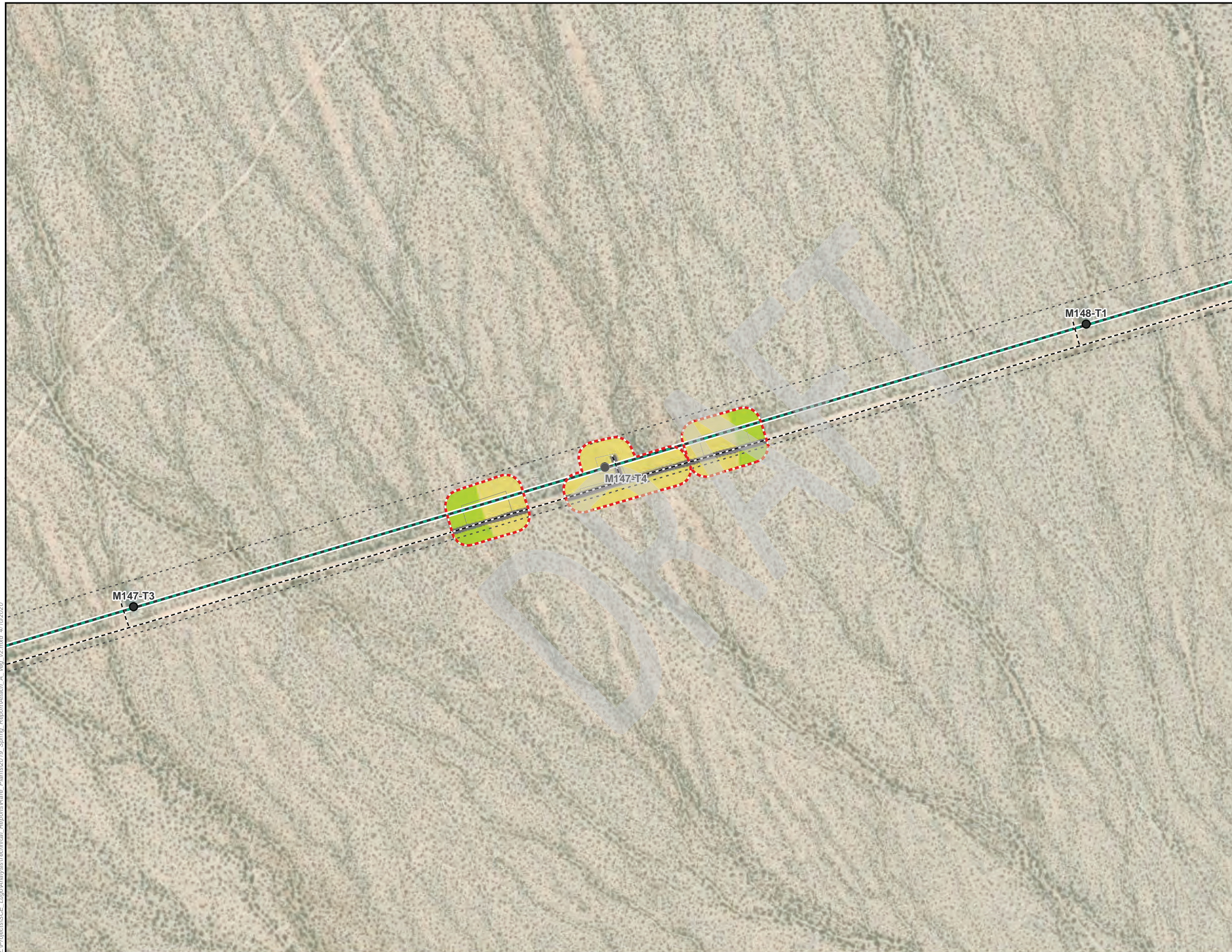


Source: Insignia, 2019; SCE, 2019

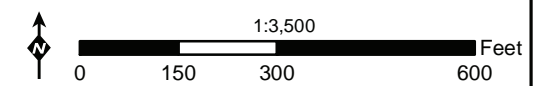
**Attachment A:
Vegetation Communities and Land Covers
Map 130 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance



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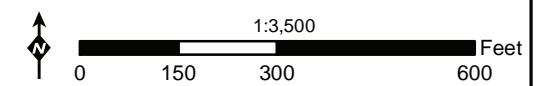
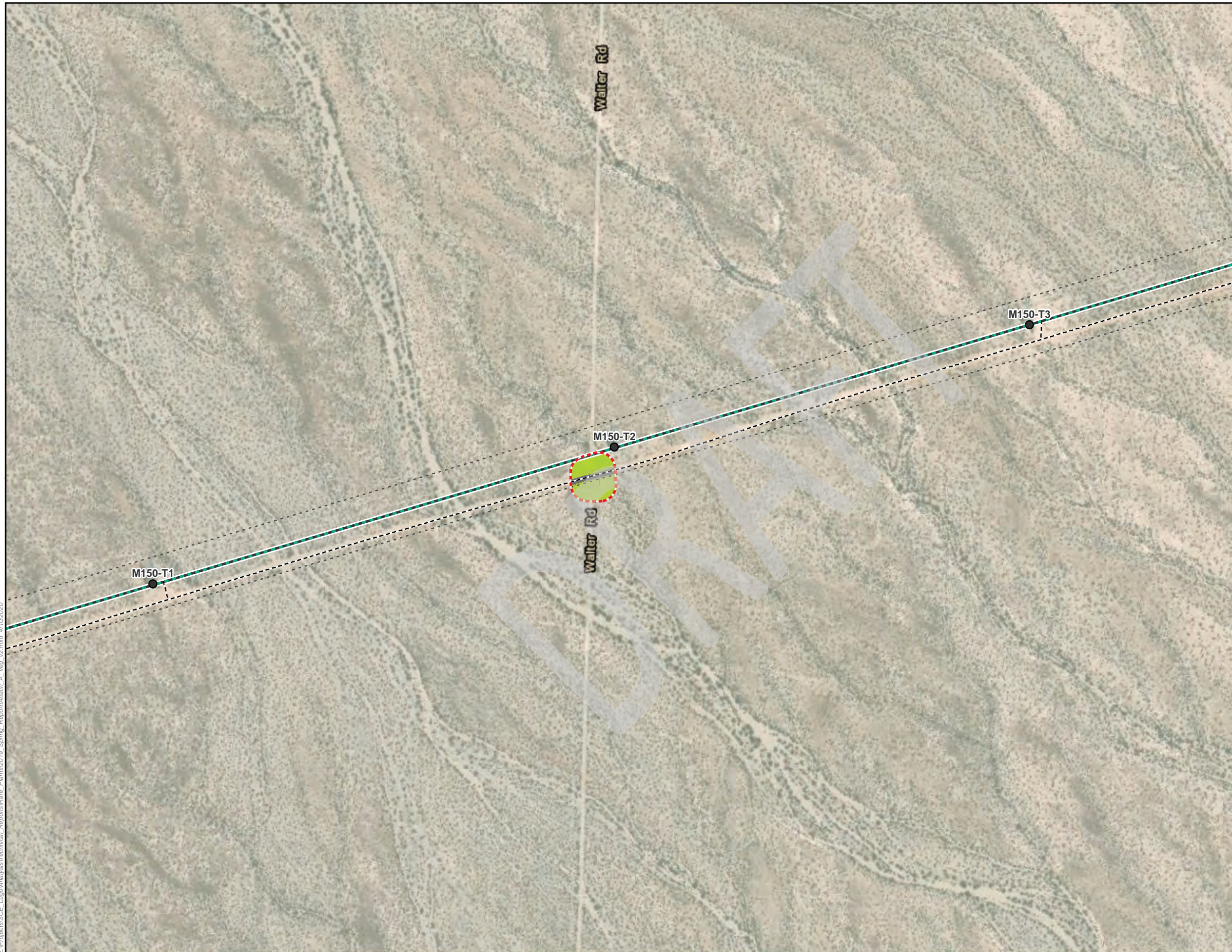


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 131 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**














- Survey Area
- Project Components**
 - Lugo - Mohave 500 kV Transmission Line
 - Existing Transmission Structure
 - Construction Area
 - Right-of-Way
 - Access Road
- Vegetation Community/Land Cover**
 - Developed
 - Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

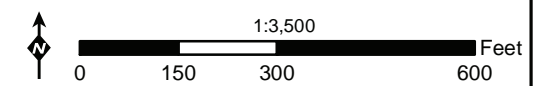
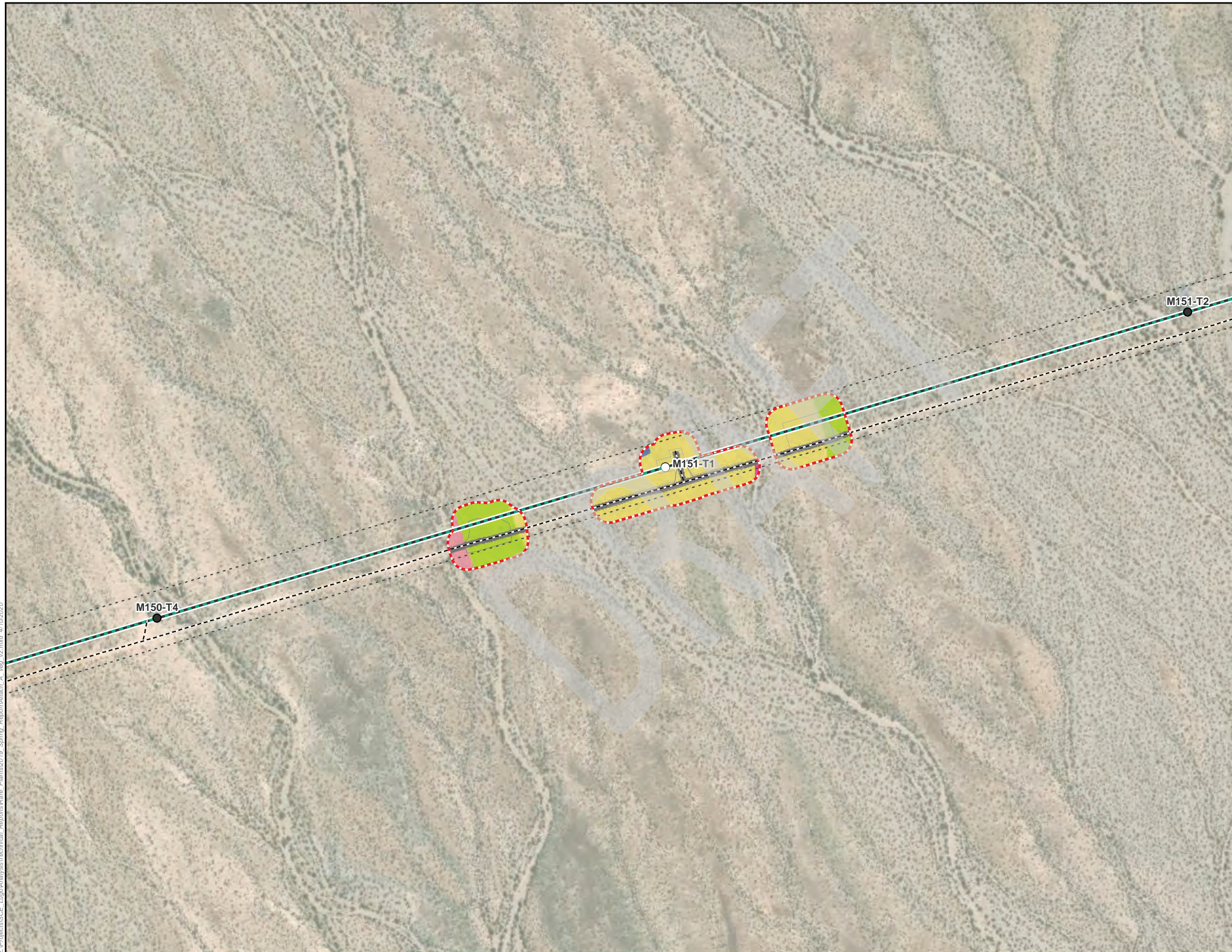


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 132 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola* - *Bebbia juncea* Shrubland Alliance
-  *Chorizanthe rigida* - *Geraea canescens* Desert Pavement Sparsely Vegetated Alliance
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance

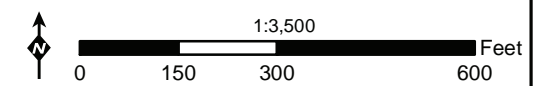
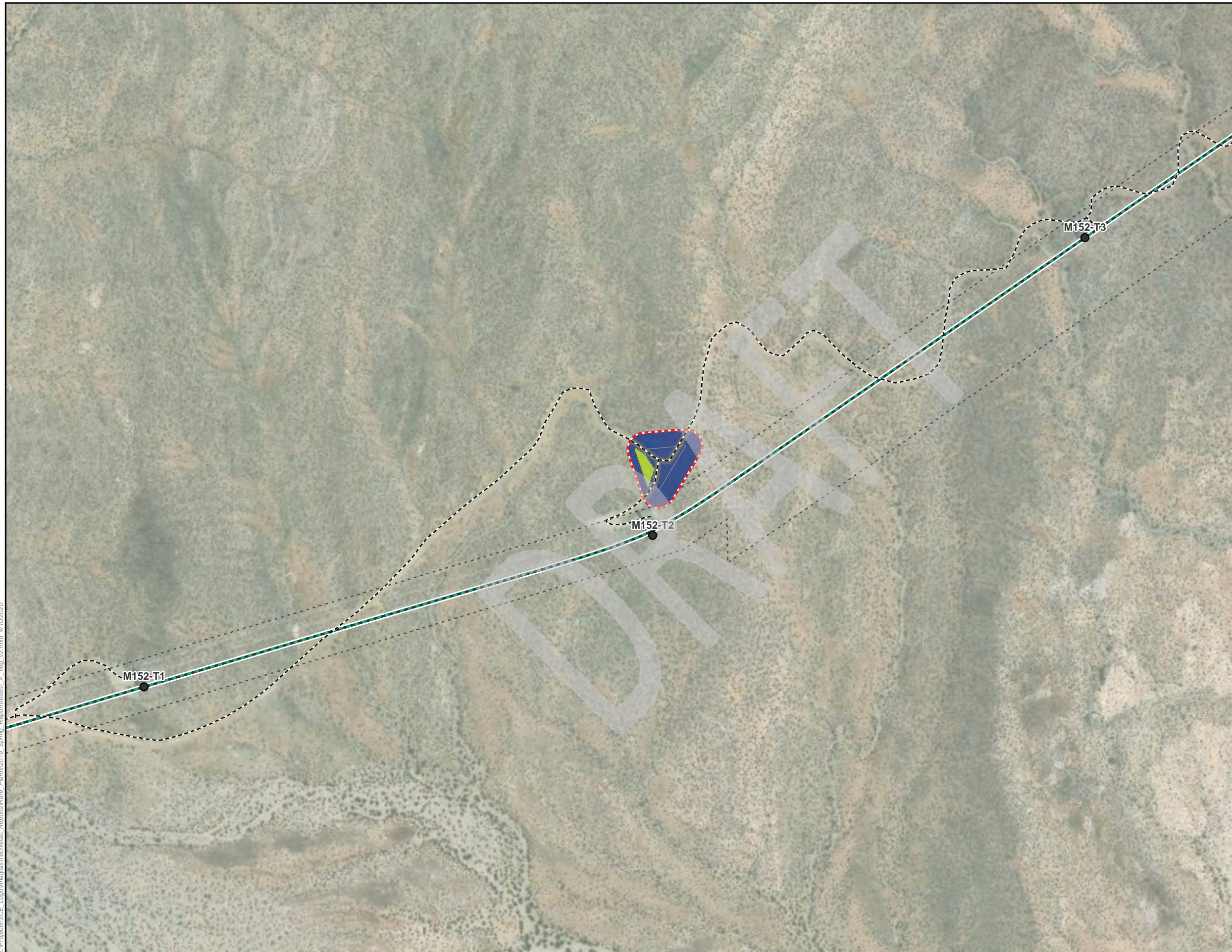


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 133 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**












-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* Shrubland Alliance

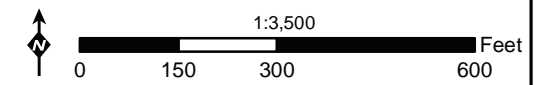


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 134 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance











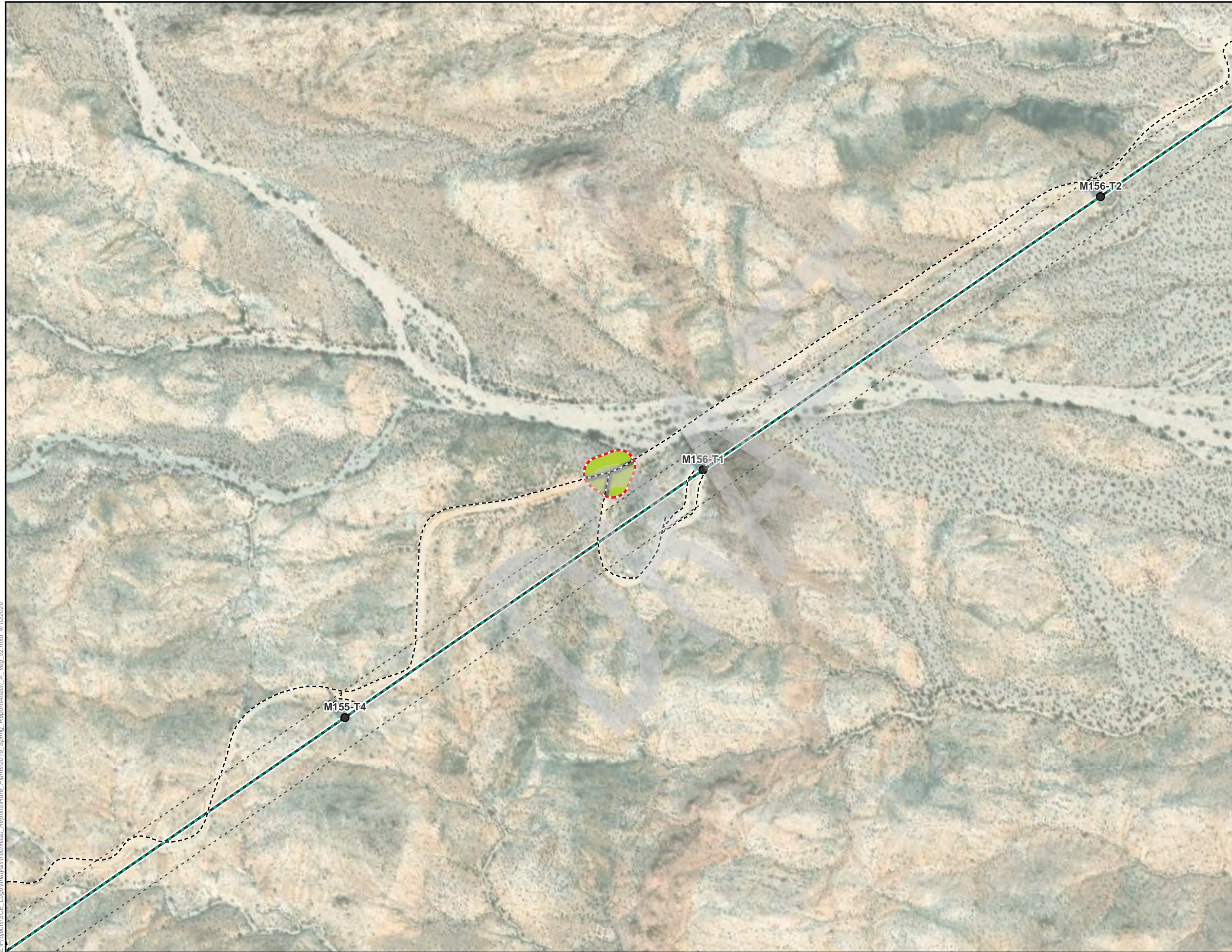
Source: Insignia, 2019; SCE, 2019

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**Attachment A:
Vegetation Communities and Land Covers
Map 135 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

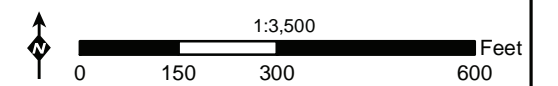
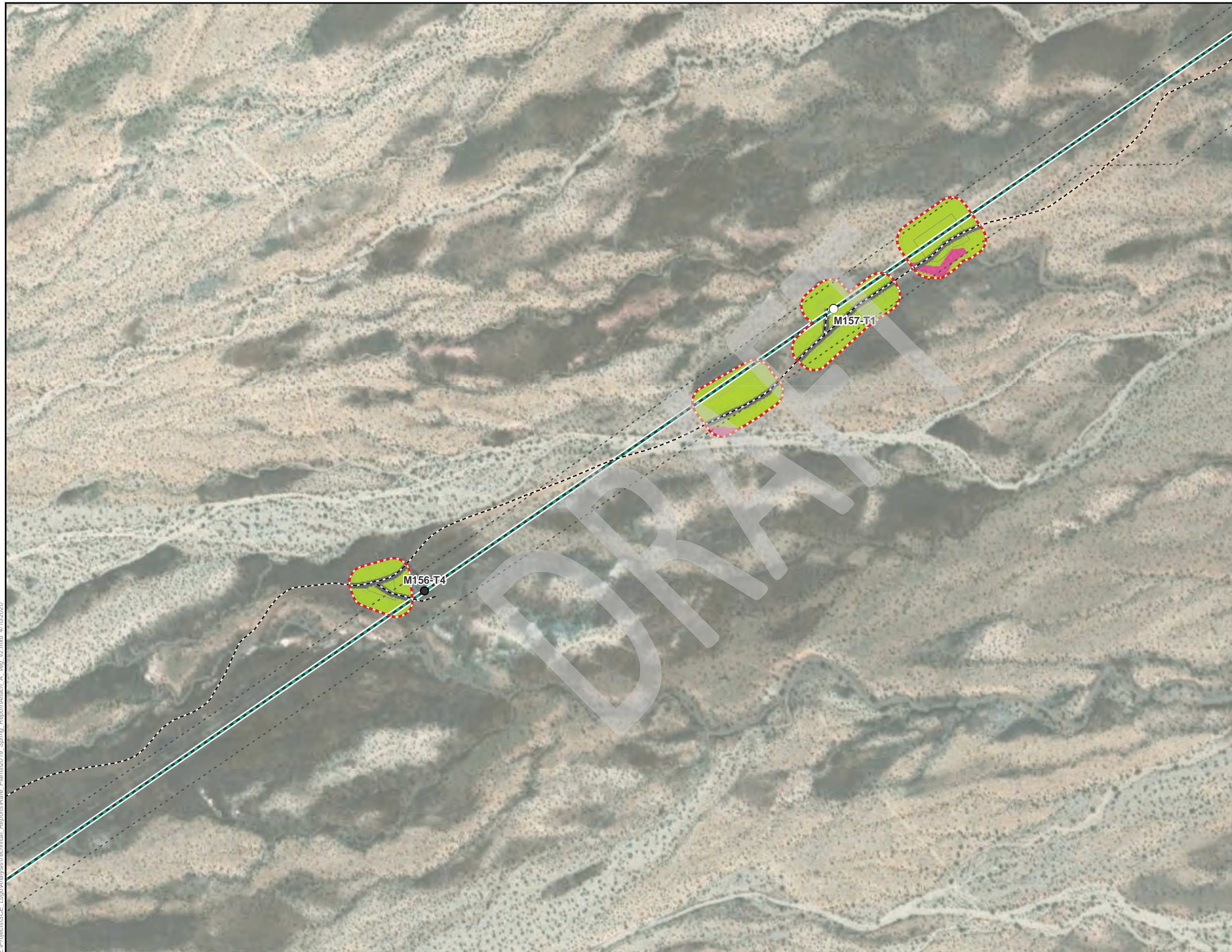


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 136 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance



Source: Insignia, 2019; SCE, 2019

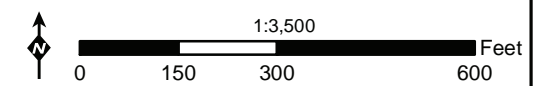
**Attachment A:
Vegetation Communities and Land Covers
Map 137 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

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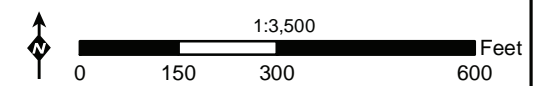


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 138 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Ericameria paniculata* Shrubland Alliance
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

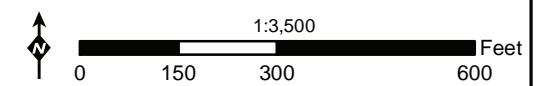


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 139 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

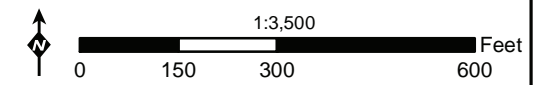


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 140 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance













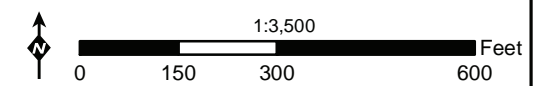
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**Attachment A:
Vegetation Communities and Land Covers
Map 141 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola - Bebbia juncea* Shrubland Alliance
-  *Cylindropuntia bigelovii* Shrubland Alliance
-  Developed
-  *Encelia farinosa* Shrubland Alliance
















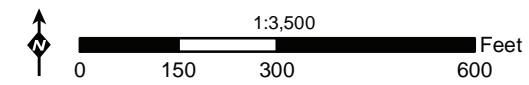
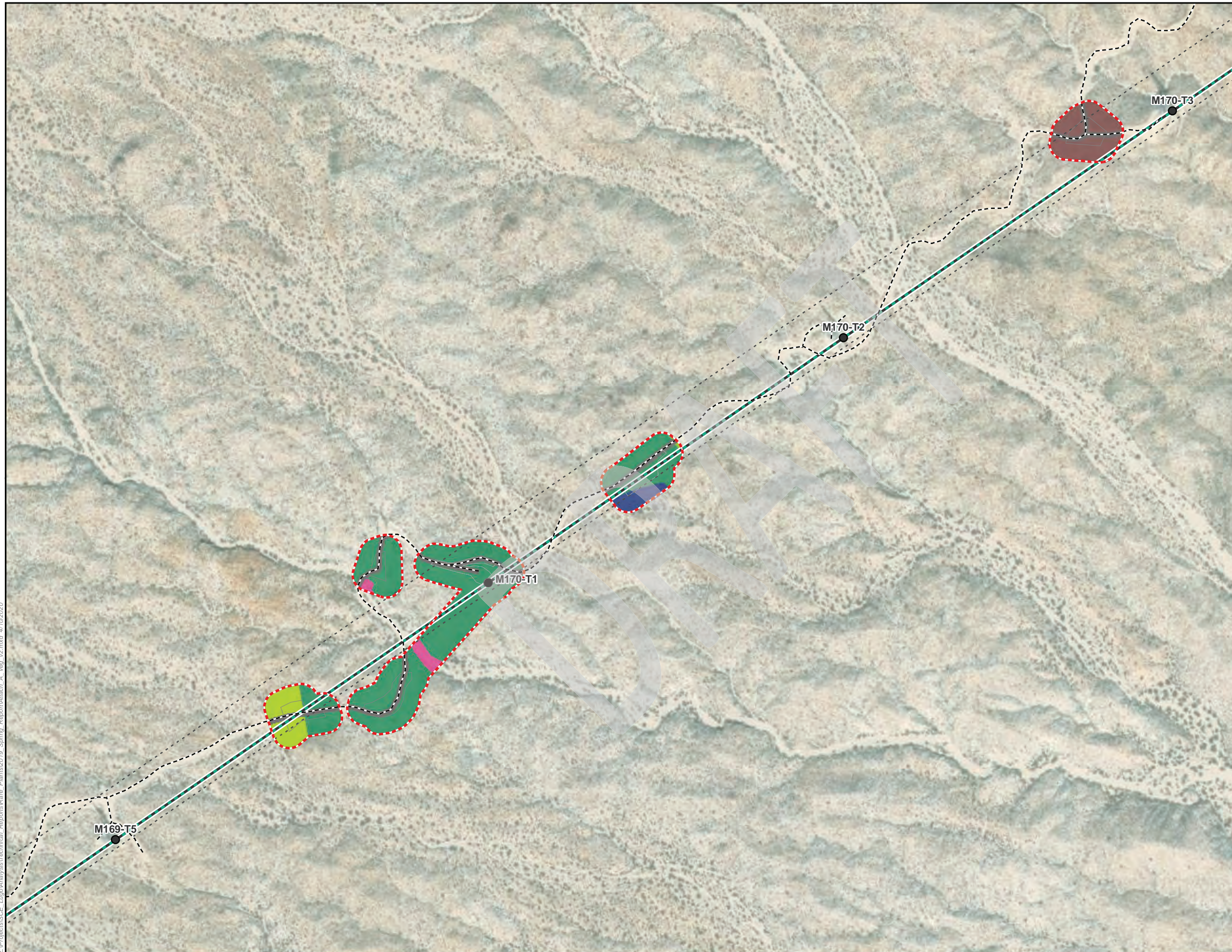
Source: Insignia, 2019; SCE, 2019

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**Attachment A:
Vegetation Communities and Land Covers
Map 142 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Encelia farinosa* Shrubland Alliance
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance
-  *Larrea tridentata* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance












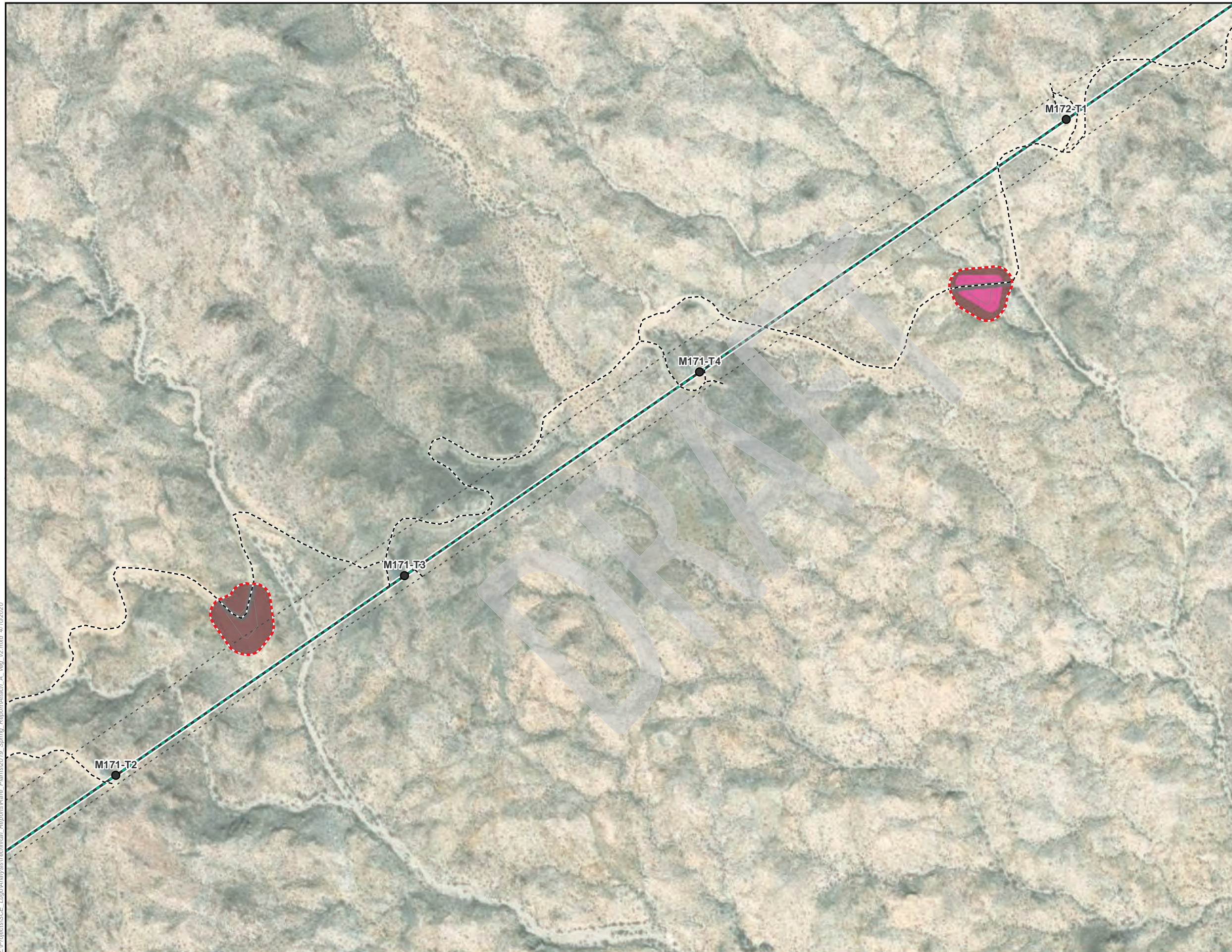
Source: Insignia, 2019; SCE, 2019

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**Attachment A:
Vegetation Communities and Land Covers
Map 143 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance

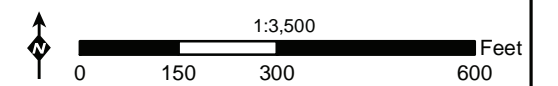
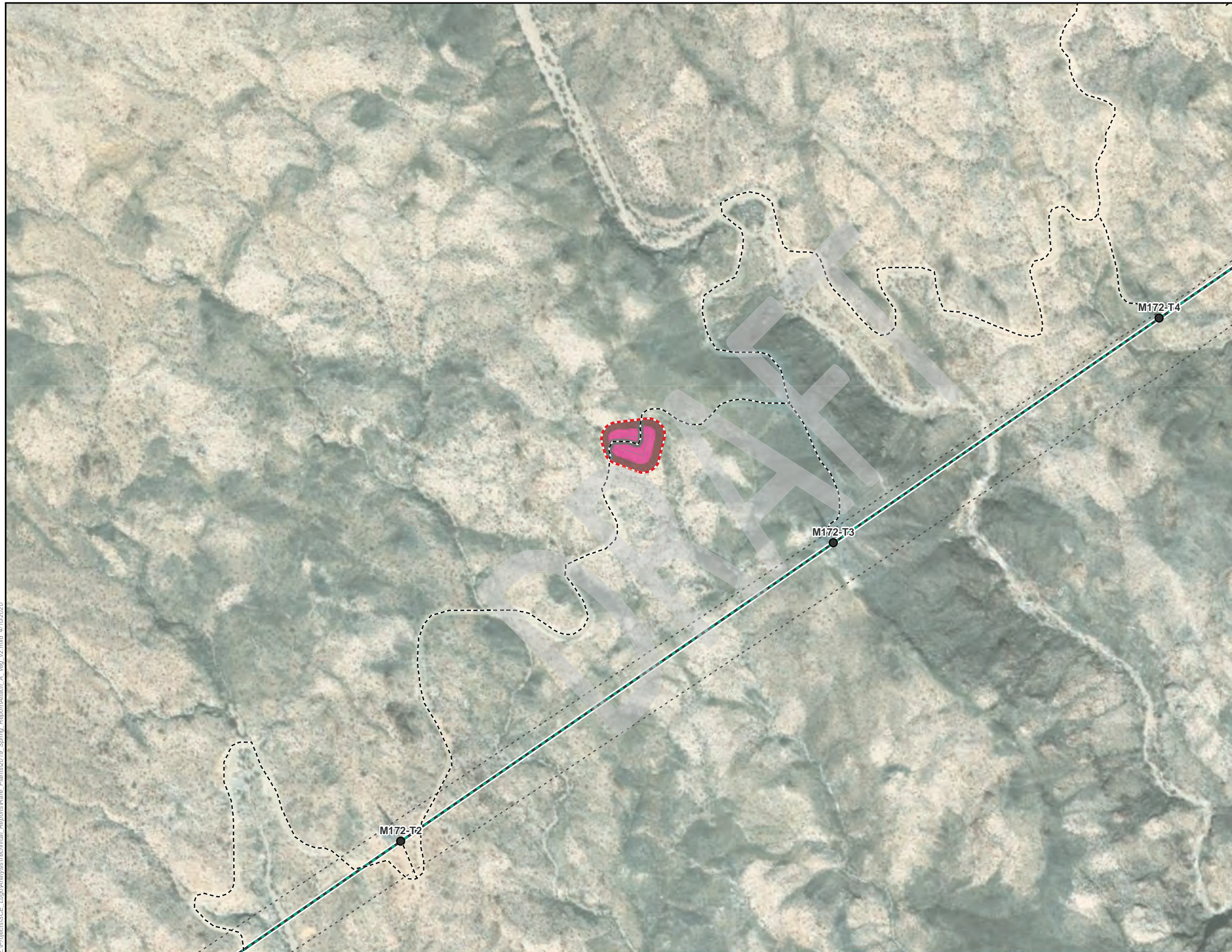


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 144 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**














-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance

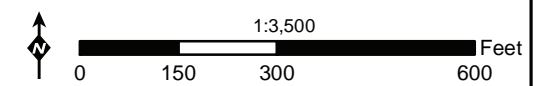


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 145 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**













-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola* - *Bebbia juncea* Shrubland Alliance
-  Barren - Not Developed
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance

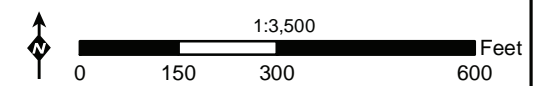
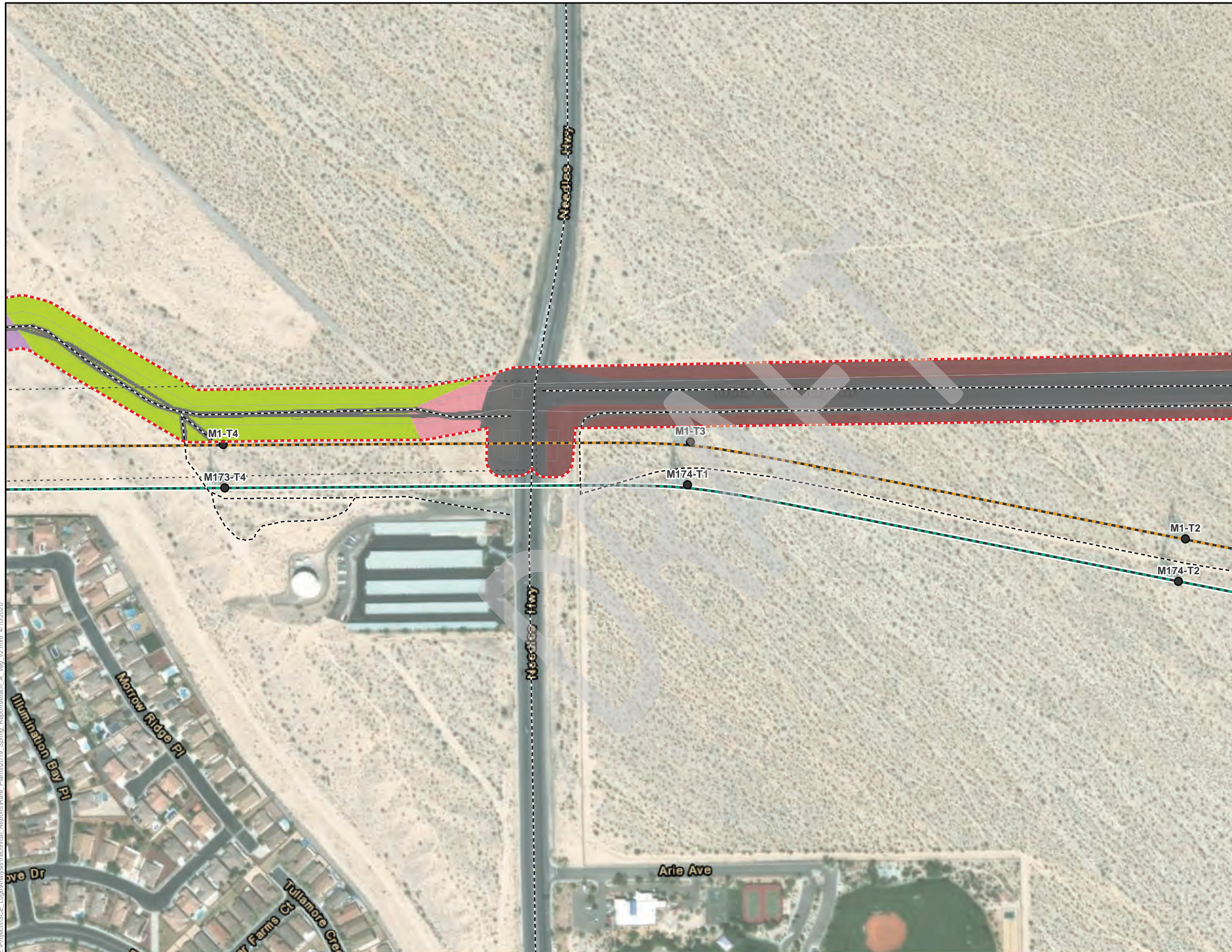


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 146 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola* - *Bebbia juncea* Shrubland Alliance
-  Barren - Not Developed
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance

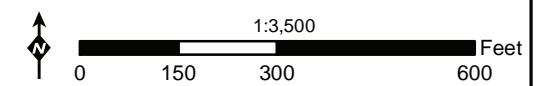


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 147 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**












-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance



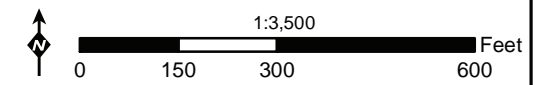
Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 148 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Existing Substation Boundary
-  Construction Area
-  Access Road
- Vegetation Community/Land Cover**
-  Barren - Not Developed
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance

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






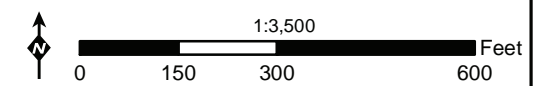
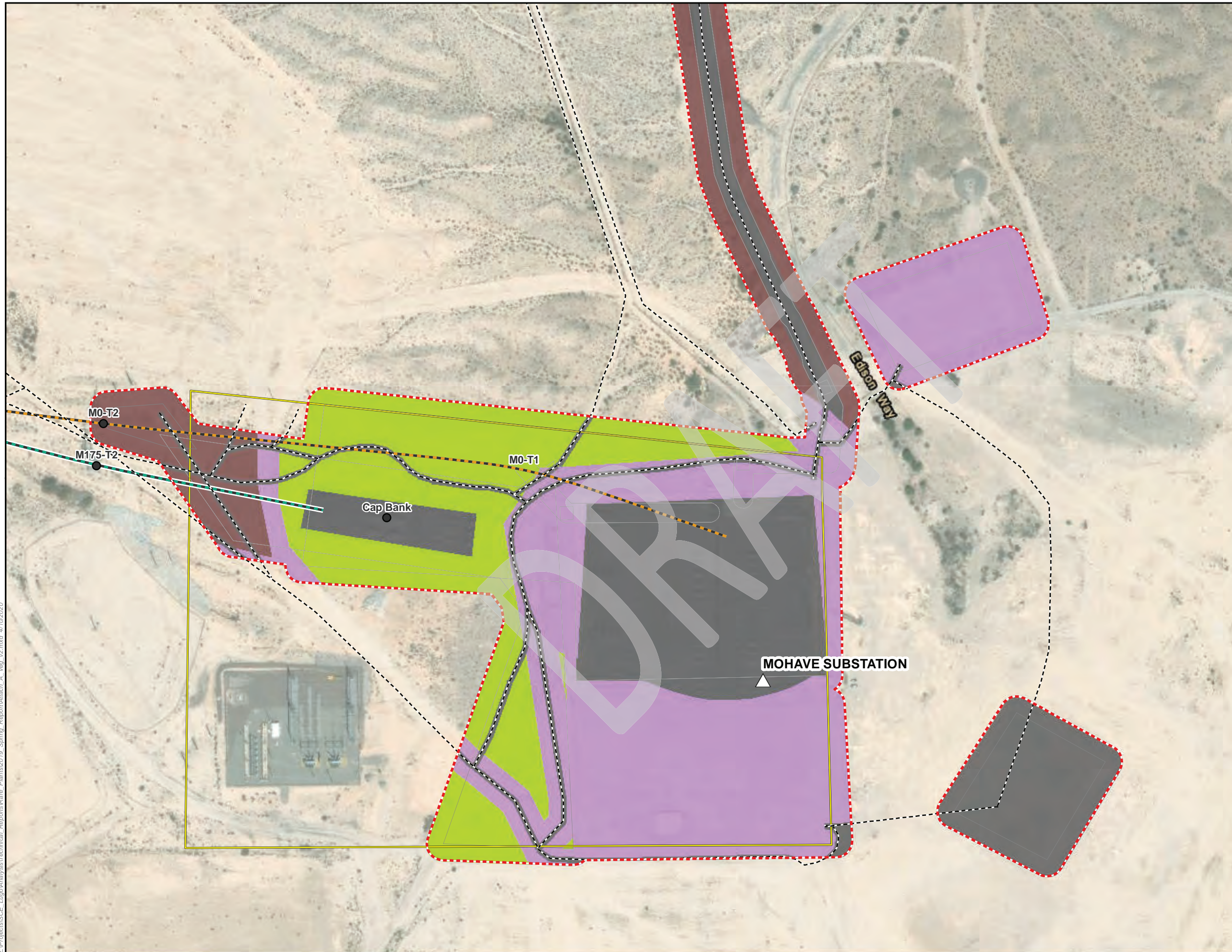
Source: Insignia, 2019; SCE, 2019

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**Attachment A:
Vegetation Communities and Land Covers
Map 149 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Substation
-  Existing Transmission Structure
-  Existing Substation Boundary
-  Construction Area
-  Access Road
- Vegetation Community/Land Cover**
-  Barren - Not Developed
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance

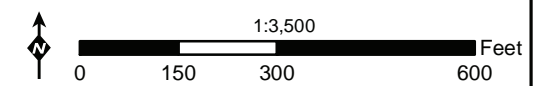


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 150 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**













-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Barren - Not Developed
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

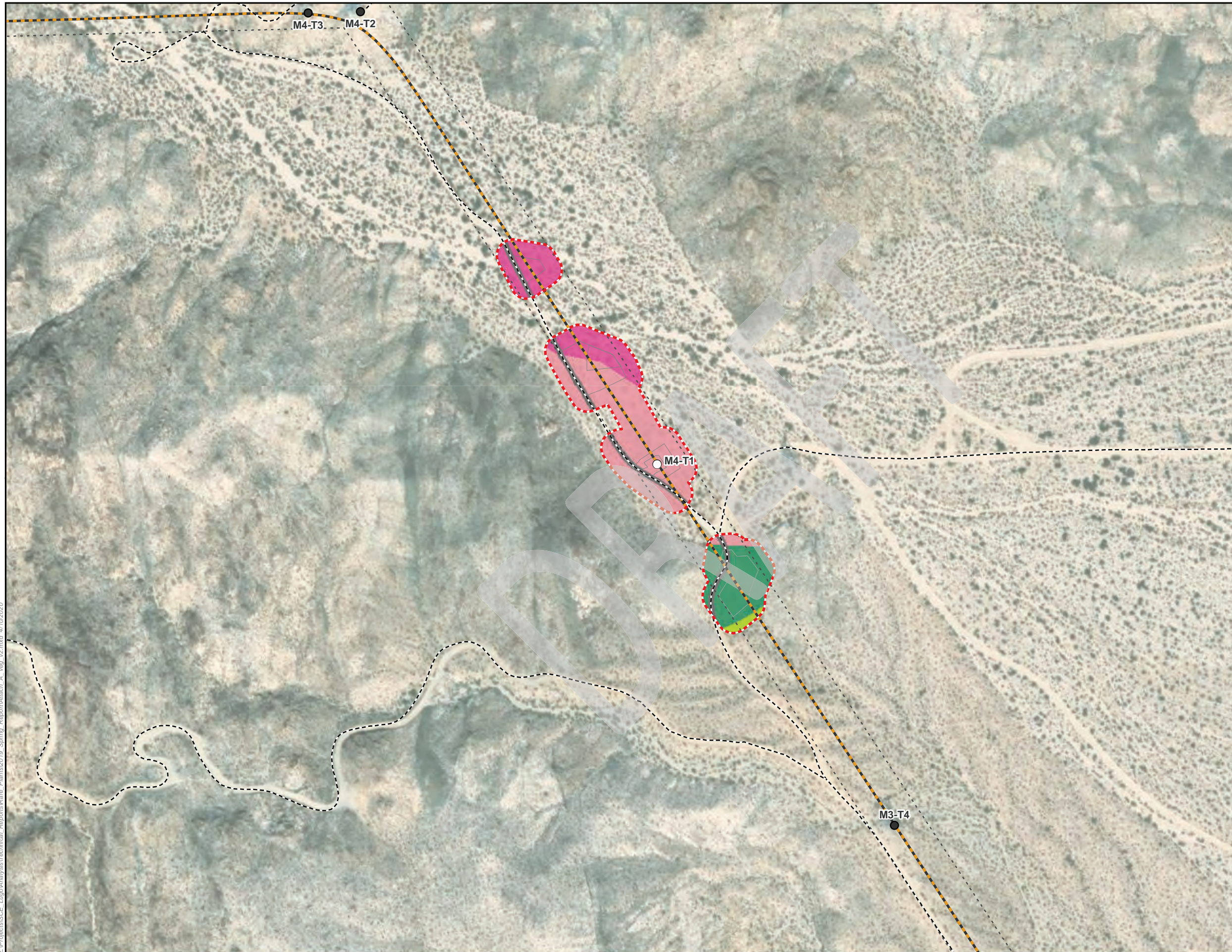


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 151 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola* - *Bebbia juncea* Shrubland Alliance
-  Developed
-  *Encelia farinosa* Shrubland Alliance
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance

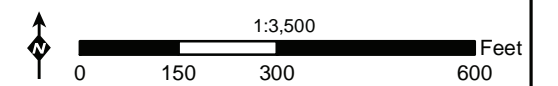
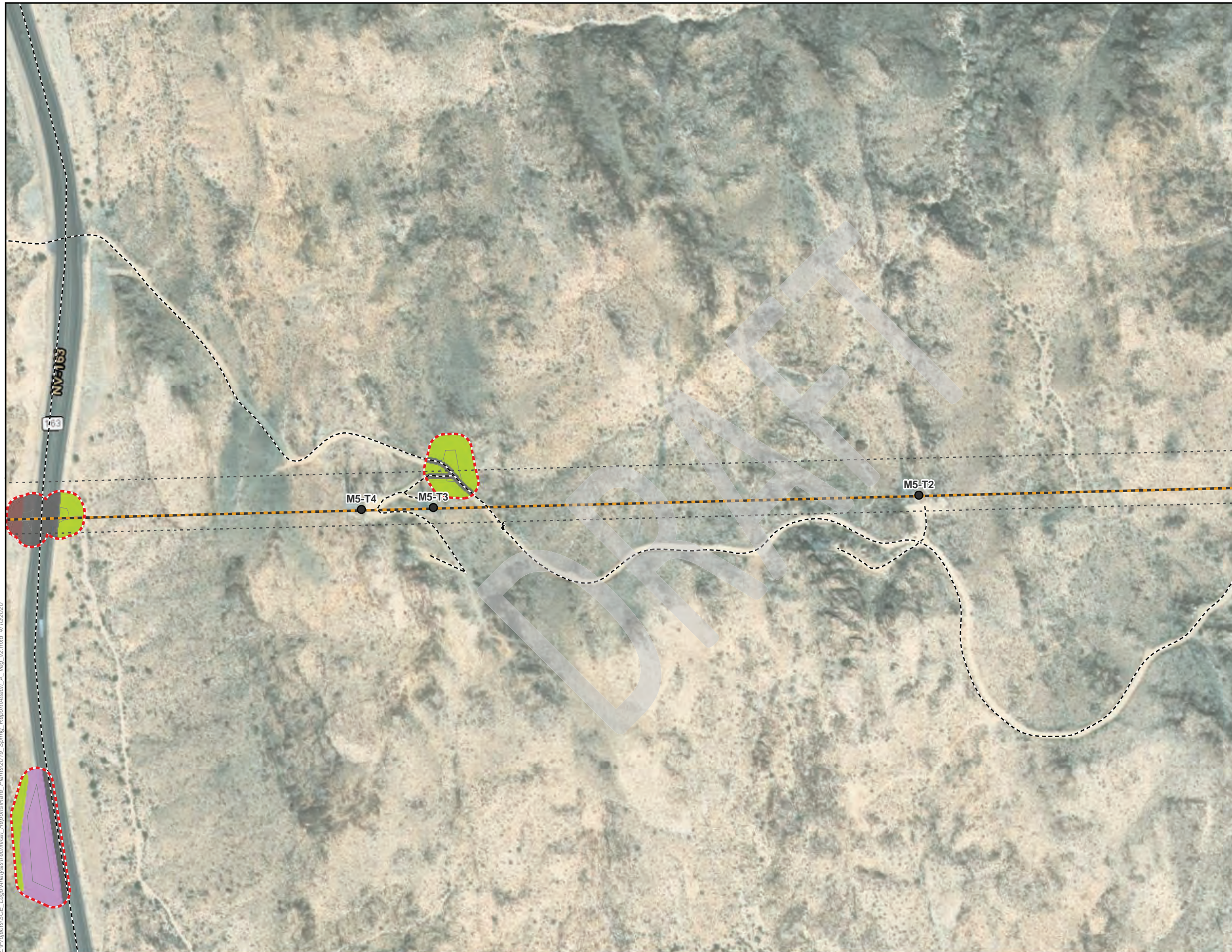


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 152 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**














-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Barren - Not Developed
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance

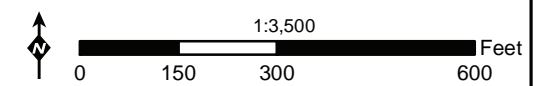
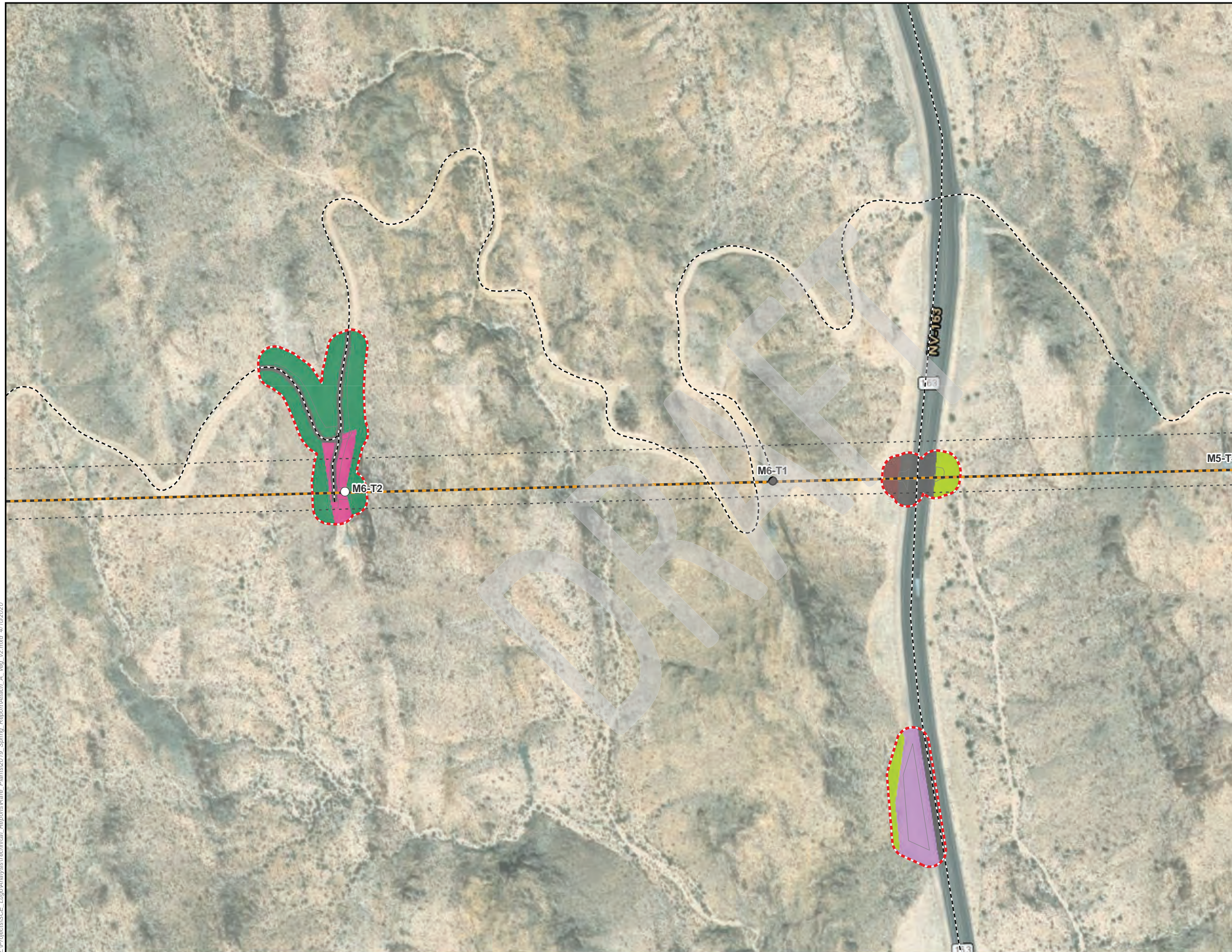


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 153 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Barren - Not Developed
-  Developed
-  *Encelia farinosa* Shrubland Alliance
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance

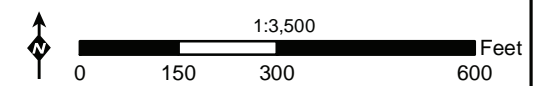


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 154 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**






-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola* - *Bebbia juncea* Shrubland Alliance
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

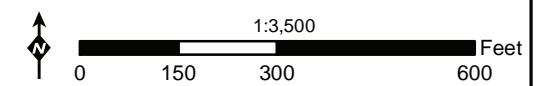
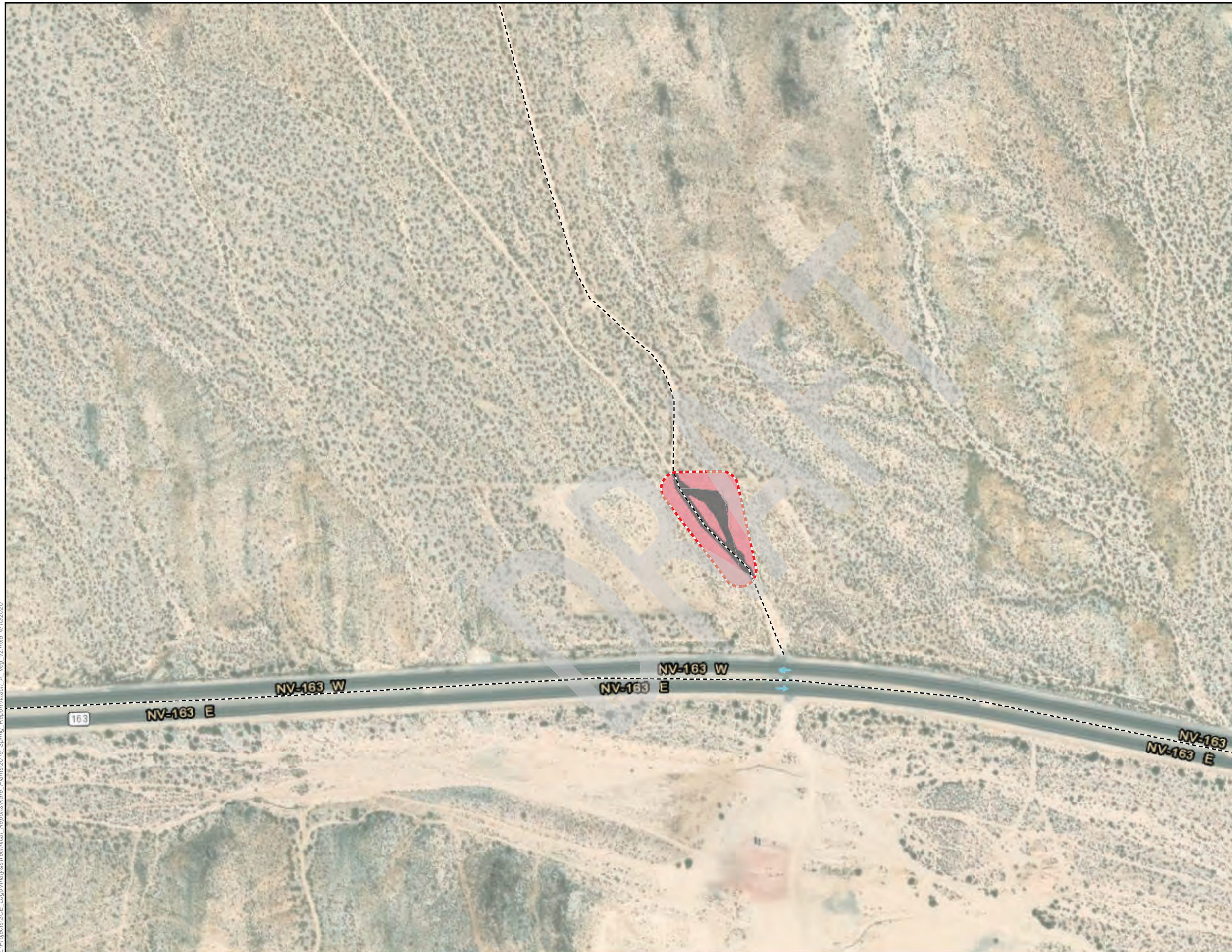


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 155 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**














-  Survey Area
-  Construction Area
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola* - *Bebbia juncea* Shrubland Alliance
-  Developed

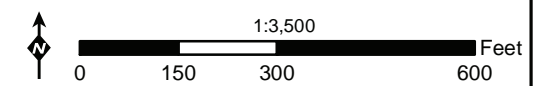


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 156 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola* - *Bebbia juncea* Shrubland Alliance
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* - *Encelia farinosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance
-  *Yucca schidigera* Shrubland Alliance

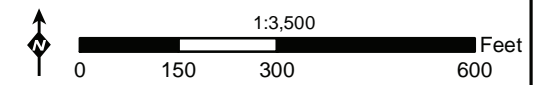
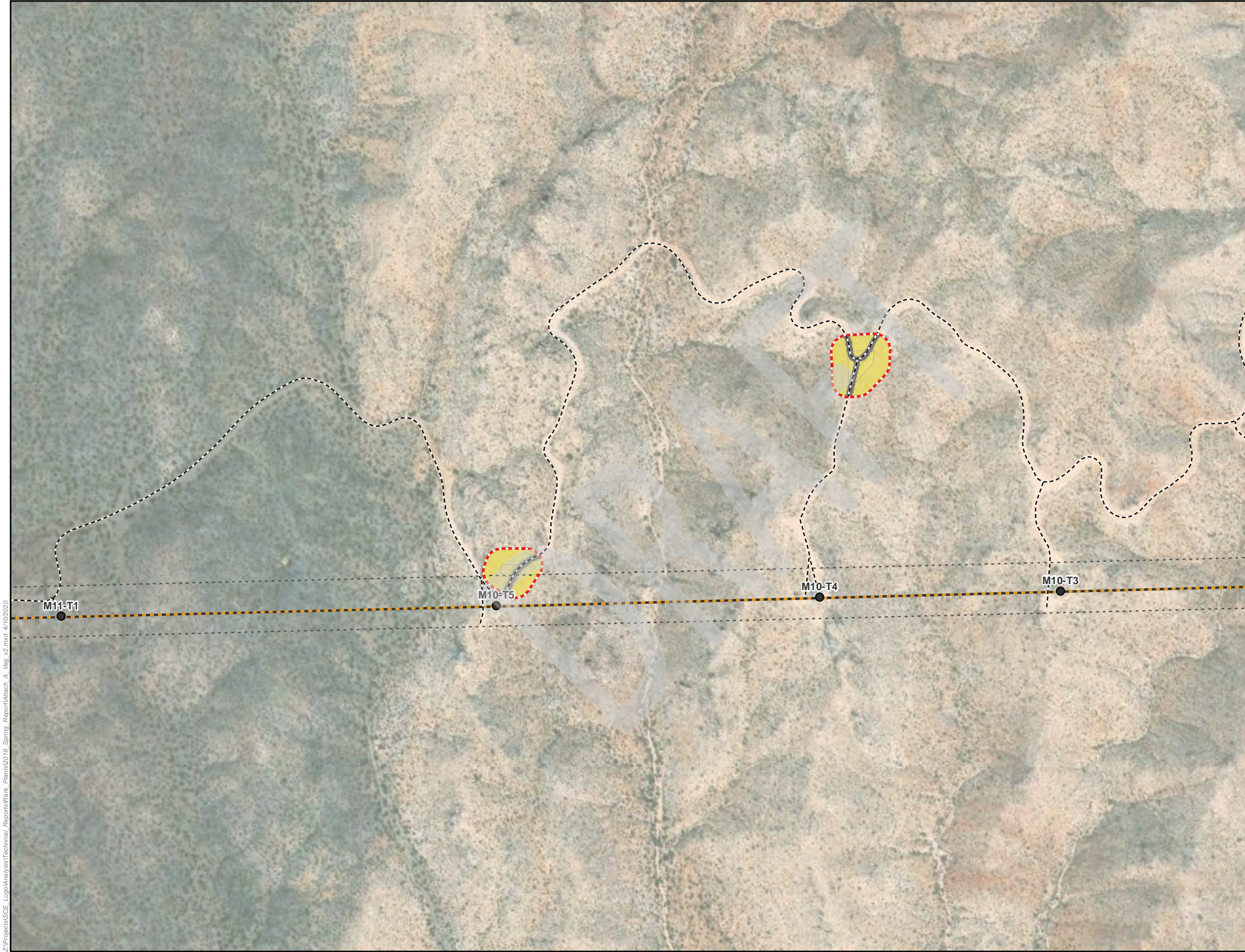


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 157 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Yucca schidigera* Shrubland Alliance











Source: Insignia, 2019; SCE, 2019

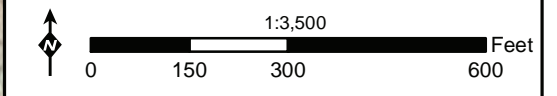
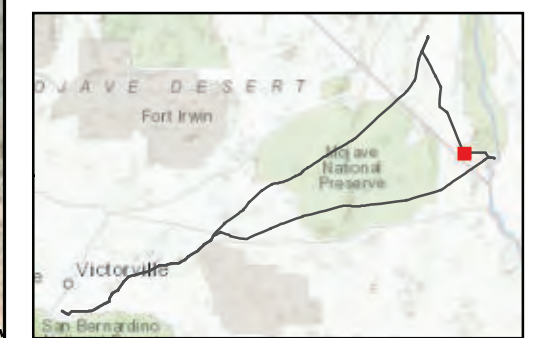
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**Attachment A:
Vegetation Communities and Land Covers
Map 158 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

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Z:\Projects\SCE_Lugo\Analysis\Technical_Reports\Revised_Plants\2019_Spring_Report\Attach_A_Veg_V2.mxd 4/10/2020

Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 159 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

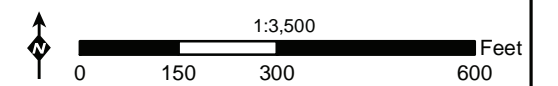


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 160 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

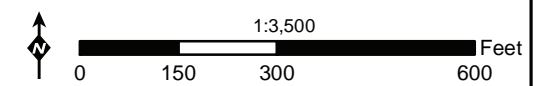


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 161 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

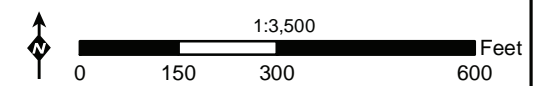


Source: Insignia, 2019; SCE, 2019

Attachment A:
Vegetation Communities and Land Covers
Map 162 of 191

Eldorado-Lugo-Mohave
Series Capacitor Project










-  Survey Area
 -  Construction Area
 -  Access Road
- Vegetation Community/Land Cover**
-  Developed
 -  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance



Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 163 of 191**

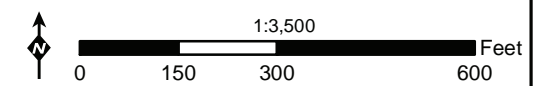
**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

M20-T1

M19-T3









DRAFT

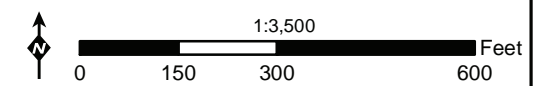


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 164 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

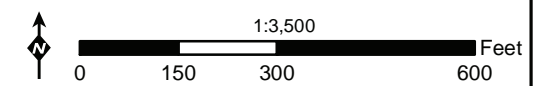


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 165 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

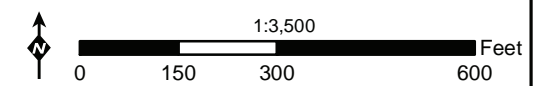


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 166 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance



Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 167 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance

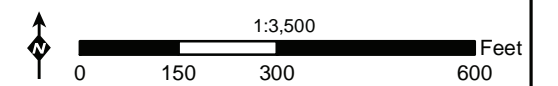


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 168 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

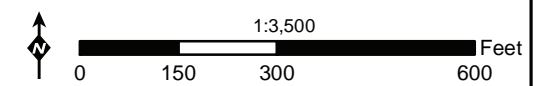


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 169 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* Shrubland Alliance

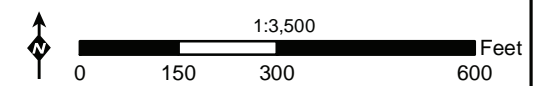


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 170 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance



Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 171 of 191**

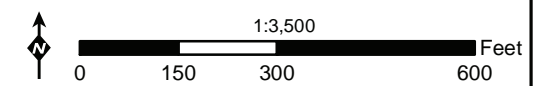
**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

M31-T3
Gulch Rd

M31-T2












M31-T1

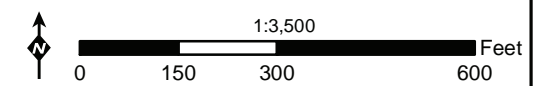


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 172 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* Shrubland Alliance
-  *Senegalia greggii* - *Hyptis emoryi* - *Justicia californica* Shrubland Alliance
-  *Yucca brevifolia* Woodland Alliance

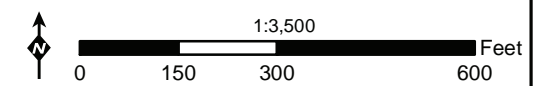


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 173 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* Shrubland Alliance

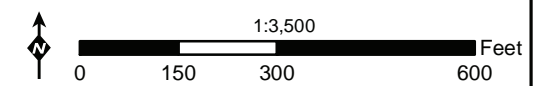


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 174 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance



Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 175 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

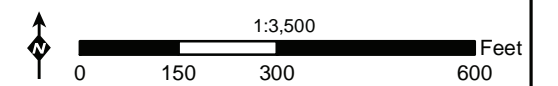


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 176 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**










-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Yucca brevifolia* Woodland Alliance

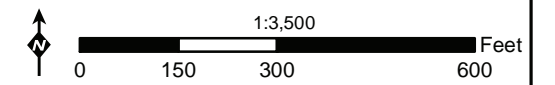


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 177 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Yucca brevifolia* Woodland Alliance








Source: Insignia, 2019; SCE, 2019

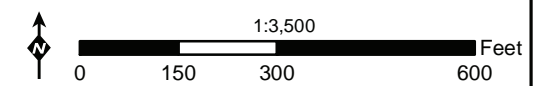
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Attachment A: Vegetation Communities and Land Covers Map 178 of 191

Eldorado-Lugo-Mohave Series Capacitor Project









-  Survey Area
 -  Construction Area
 -  Access Road
- Vegetation Community/Land Cover**
-  Developed
 -  *Yucca brevifolia* Woodland Alliance

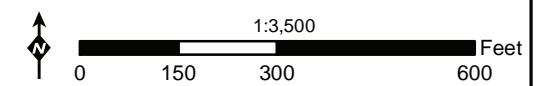


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 179 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Yucca brevifolia* Woodland Alliance












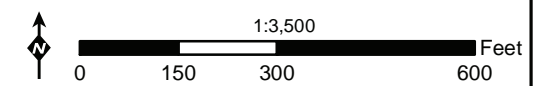
Source: Insignia, 2019; SCE, 2019

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Attachment A: Vegetation Communities and Land Covers Map 180 of 191

Eldorado-Lugo-Mohave Series Capacitor Project










-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Yucca brevifolia* Woodland Alliance



Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 181 of 191**

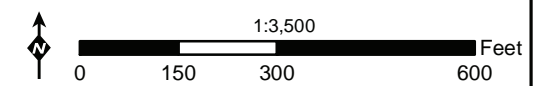
**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Yucca brevifolia* Woodland Alliance

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M41-T1










M40-T4



Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 182 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

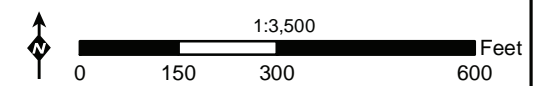
-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

M43-T4

M43-T3

M43-T2

DRAFT



Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 183 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
-  Construction Area
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

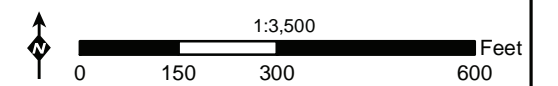
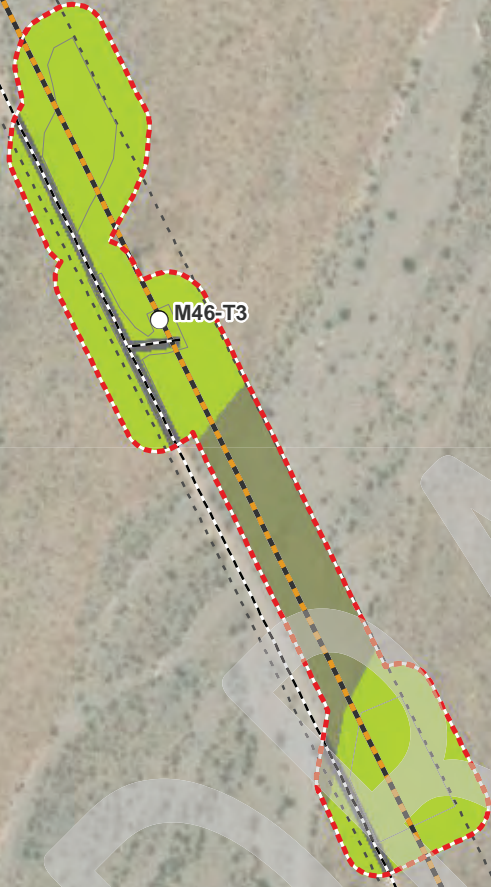


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 184 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Ericameria paniculata* Shrubland Alliance
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance



Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 185 of 191**

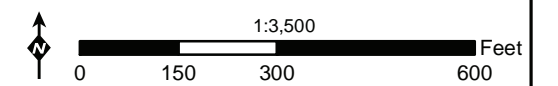
**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

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M47-T1










M46-T4



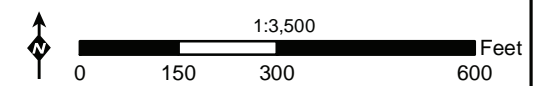
Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 186 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance
-  *Larrea tridentata* Shrubland Alliance









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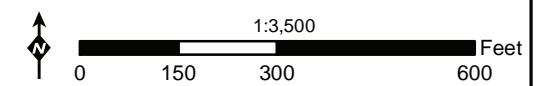
Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 187 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance













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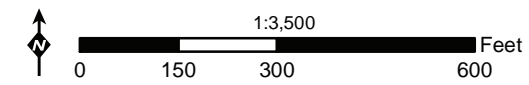
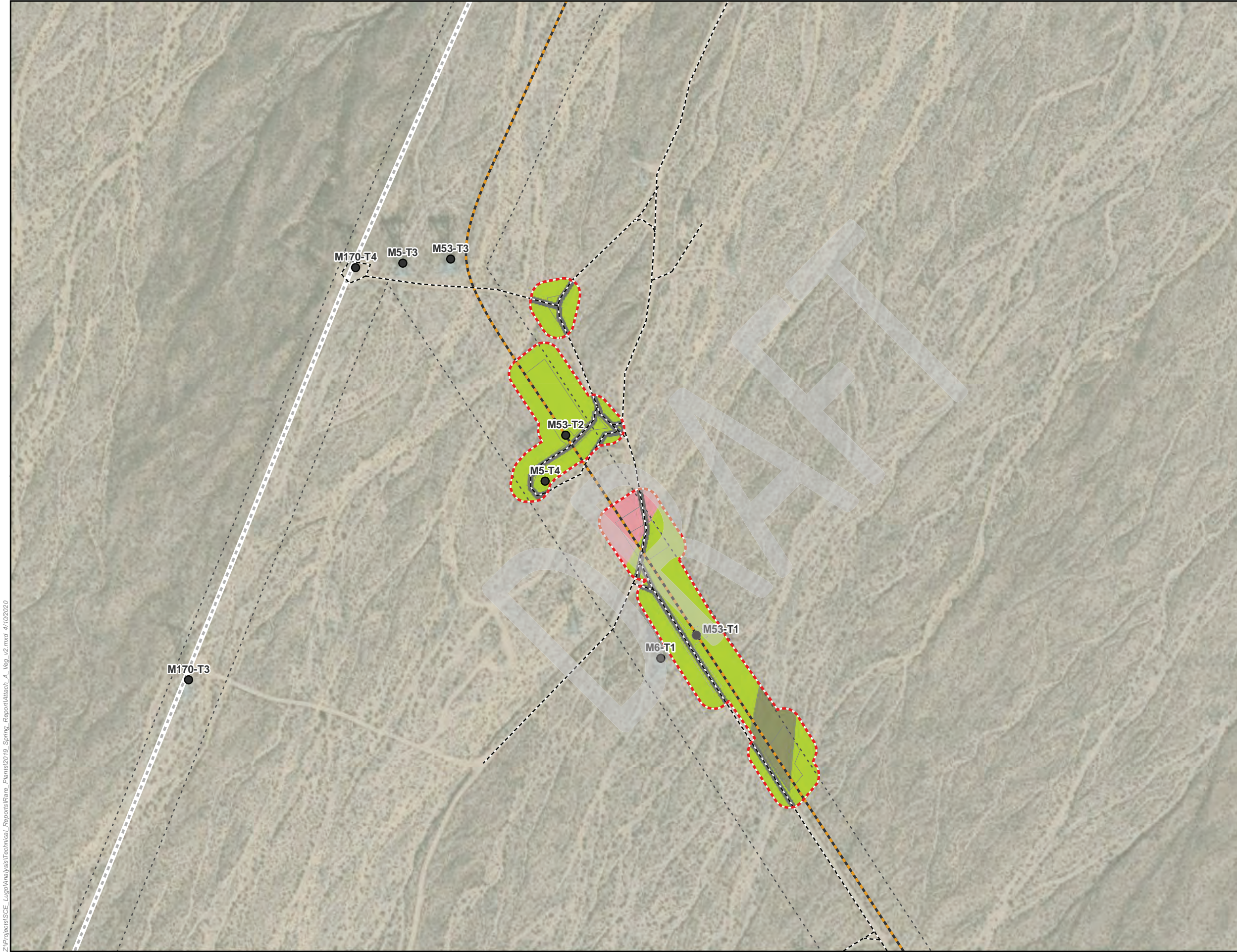


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 188 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Transmission Line not part of Project
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  *Ambrosia salsola* - *Bebbia juncea* Shrubland Alliance
-  Developed
-  *Ericameria paniculata* Shrubland Alliance
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance













Source: Insignia, 2019; SCE, 2019

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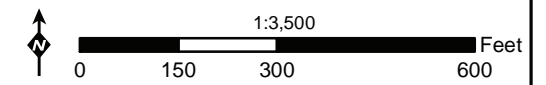
**Attachment A:
Vegetation Communities and Land Covers
Map 189 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Transmission Line not part of Project
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

M173-T3
M2-T4
M56-T1










M173-T2
M3-T1
M55-T4

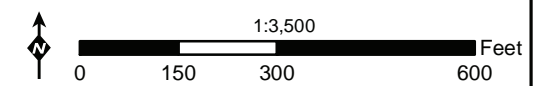
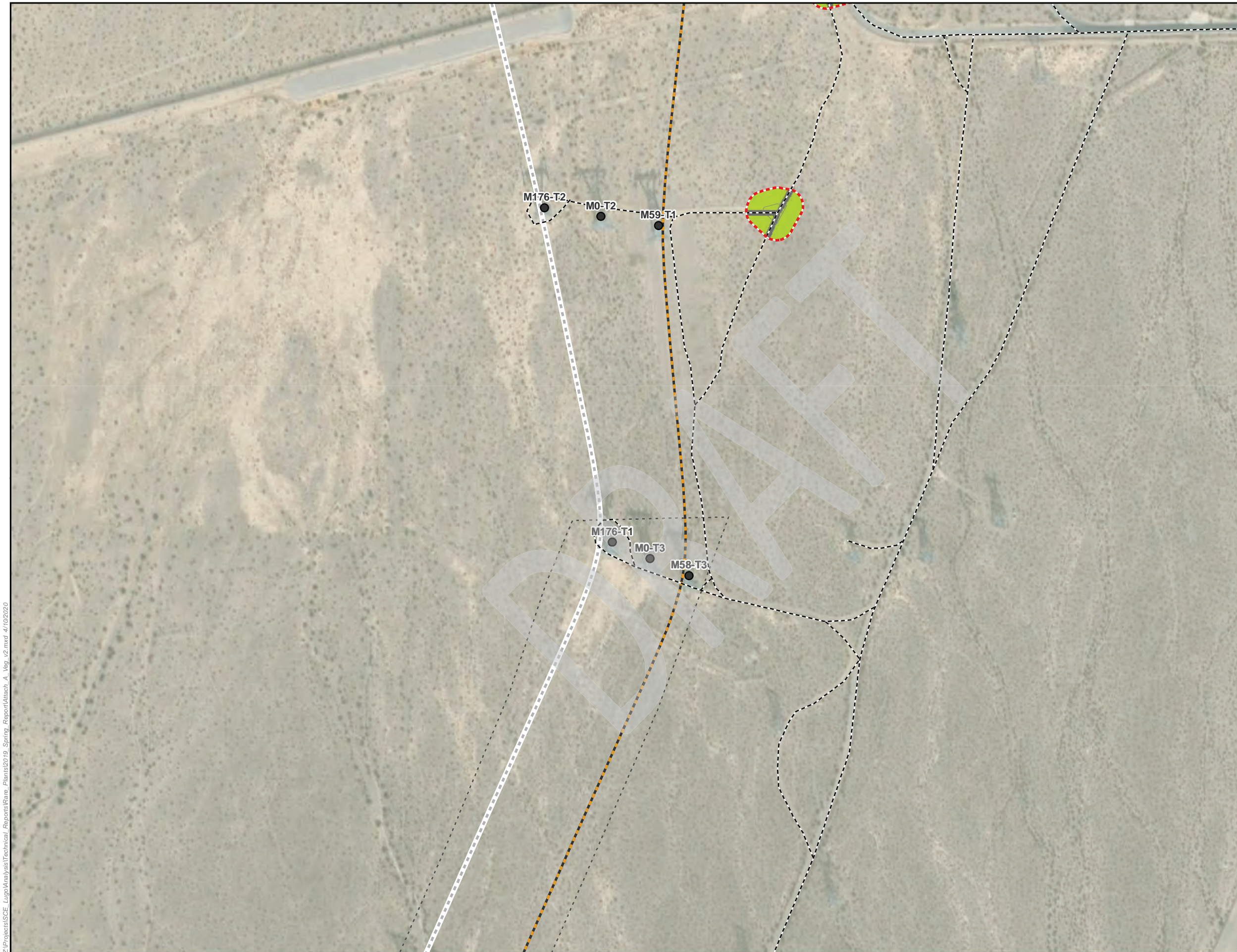


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 190 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**











-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Transmission Line not part of Project
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance

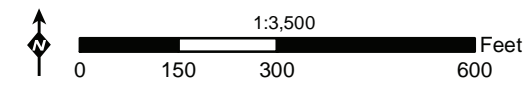
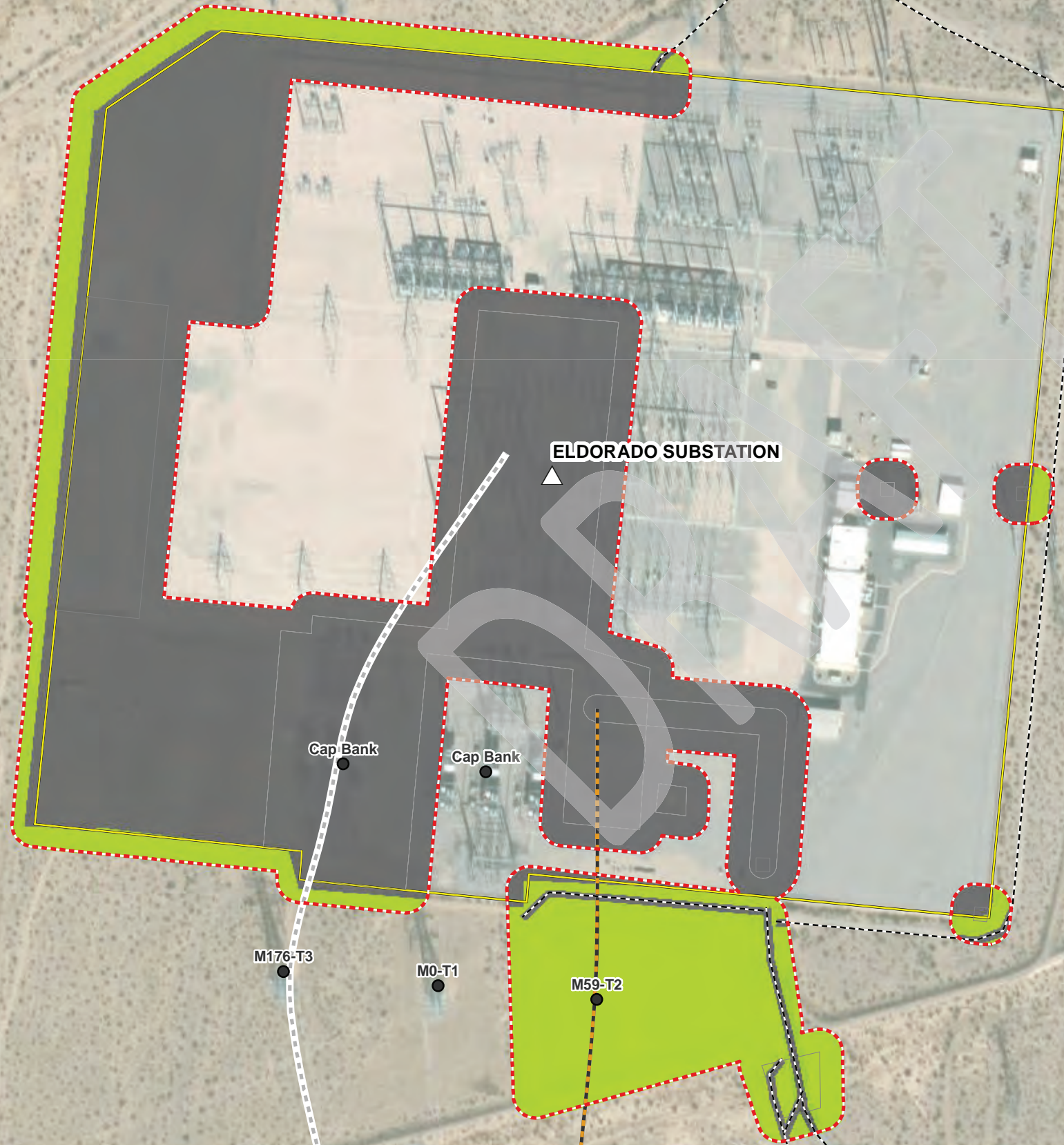


Source: Insignia, 2019; SCE, 2019

**Attachment A:
Vegetation Communities and Land Covers
Map 191 of 191**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Transmission Line not part of Project
-  Existing Substation
-  Existing Transmission Structure
-  Existing Substation Boundary
-  Construction Area
-  Access Road
- Vegetation Community/Land Cover**
-  Developed
-  *Larrea tridentata* - *Ambrosia dumosa* Shrubland Alliance



Source: Insignia, 2019; SCE, 2019

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ATTACHMENT B: LOCATIONS OF SPECIAL-STATUS PLANTS OBSERVED

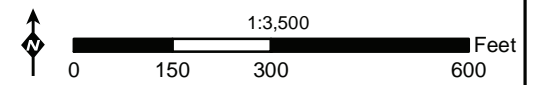
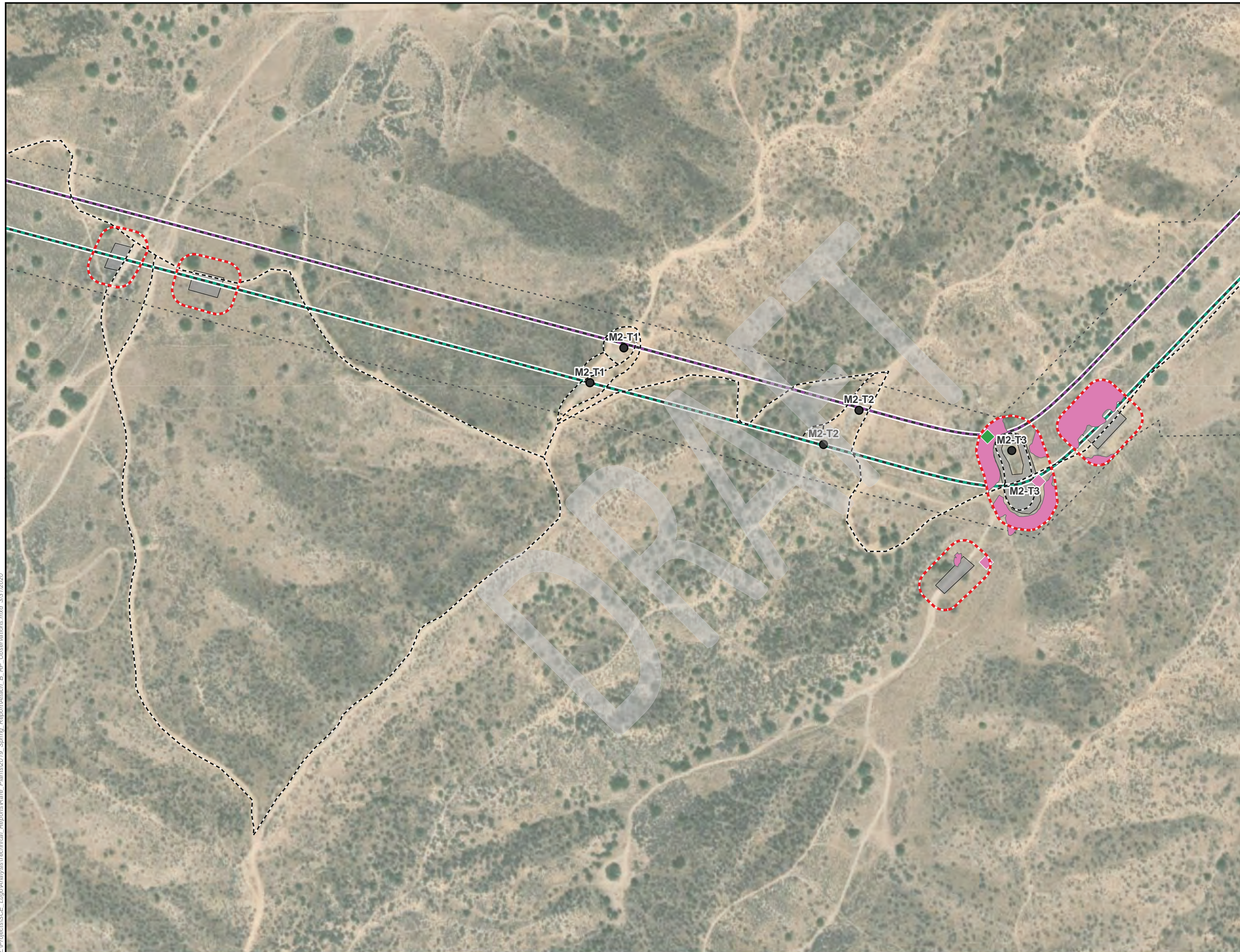
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Attachment B: Locations of Special-Status Plants Observed
Map 1 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

- Survey Area
- Project Components**
- Eldorado - Lugo 500 kV Transmission Line
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Opuntia basilaris* var. *brachyclada*
- ◆ *Pentachaeta aurea* ssp. *aurea*
- Pentachaeta aurea* ssp. *aurea*












Source: Insignia, 2019; SCE, 2019

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Attachment B: Locations of Special-Status Plants Observed
Map 2 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

-  Survey Area
- Project Components**
-  Eldorado - Lugo 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Survey Results**
-  *Pentachaeta aurea* ssp. *aurea*
-  *Pentachaeta aurea* ssp. *aurea*












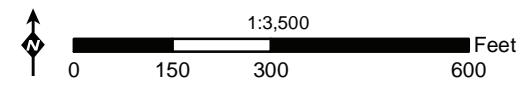
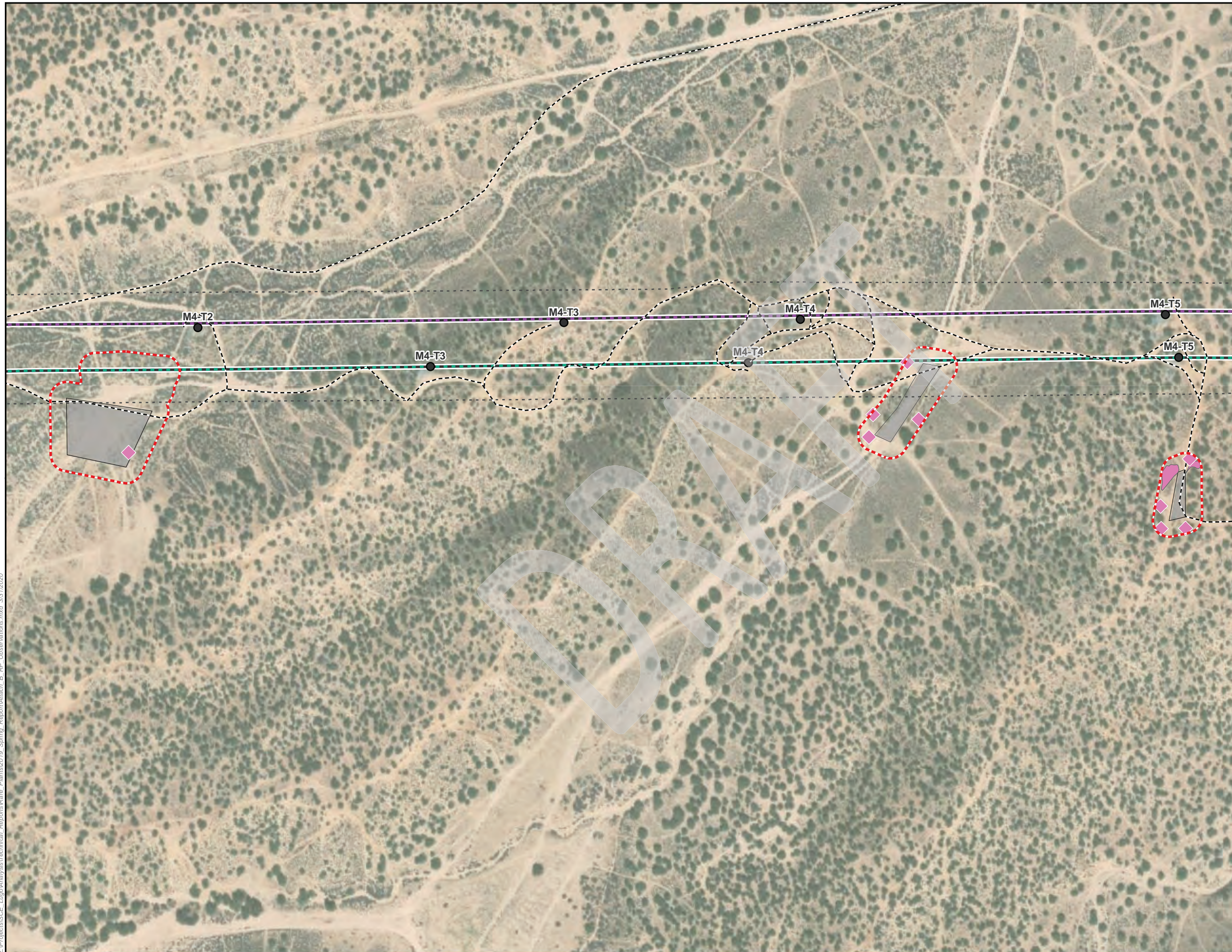
Source: Insignia, 2019; SCE, 2019

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**Attachment B: Locations of Special-Status Plants Observed
Map 3 of 24**

Eldorado-Lugo-Mohave Series Capacitor Project

-  Survey Area
- Project Components**
-  Eldorado - Lugo 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Survey Results**
-  *Pentachaeta aurea* ssp. *aurea*
-  *Pentachaeta aurea* ssp. *aurea*



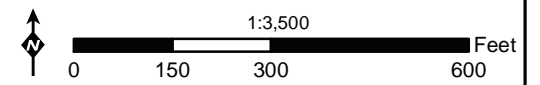
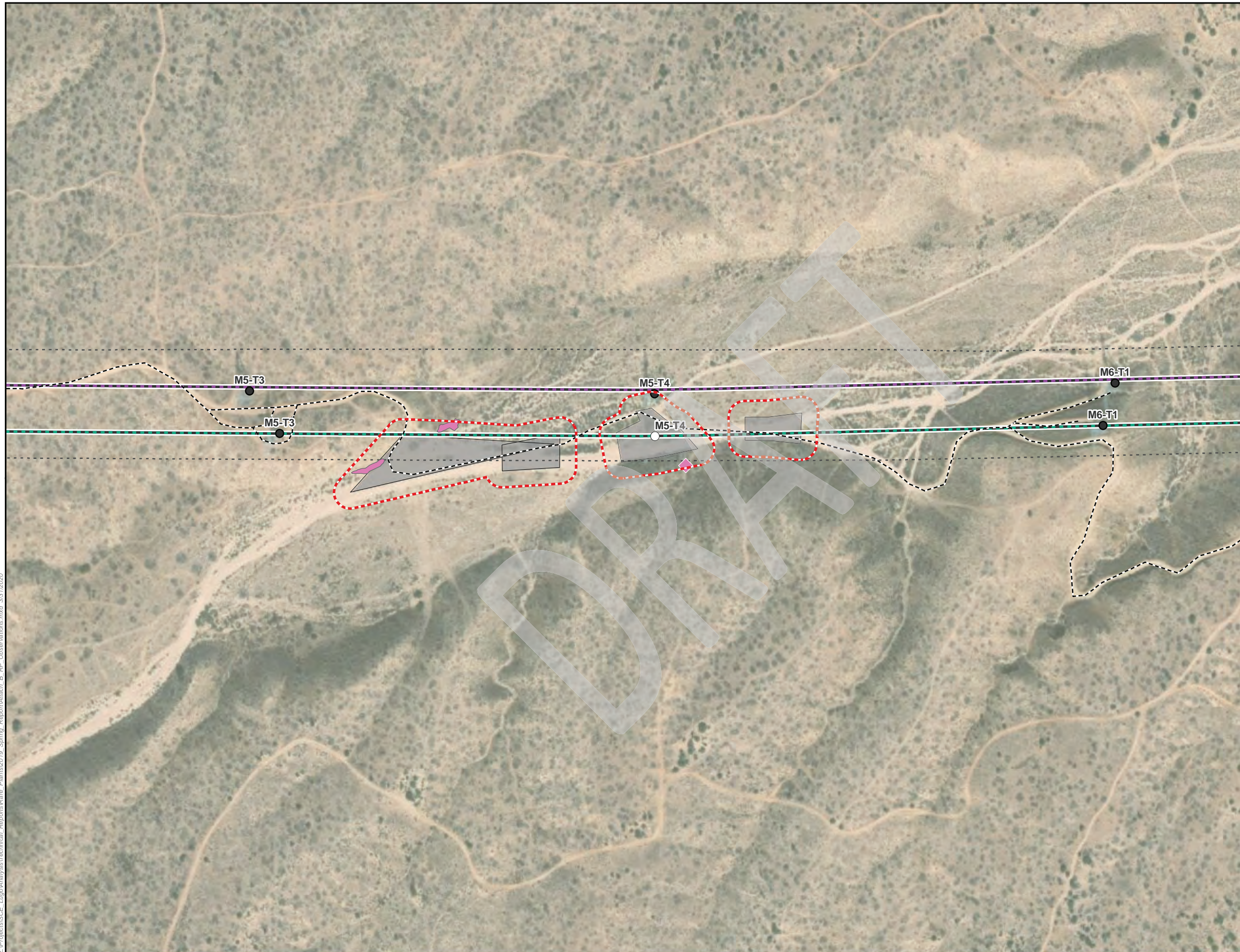
Source: Insignia, 2019; SCE, 2019

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**Attachment B: Locations of
Special-Status Plants Observed
Map 4 of 24**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

- Survey Area
- Project Components**
- Eldorado - Lugo 500 kV Transmission Line
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Modified Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Pentachaeta aurea* ssp. *aurea*
- Pentachaeta aurea* ssp. *aurea*













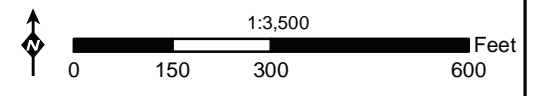
Source: Insignia, 2019; SCE, 2019

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**Attachment B: Locations of
Special-Status Plants Observed
Map 5 of 24**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Lugo 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Survey Results**
-  *Castilleja plagiotoma*
-  *Castilleja plagiotoma*



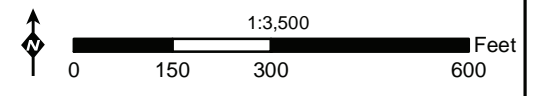
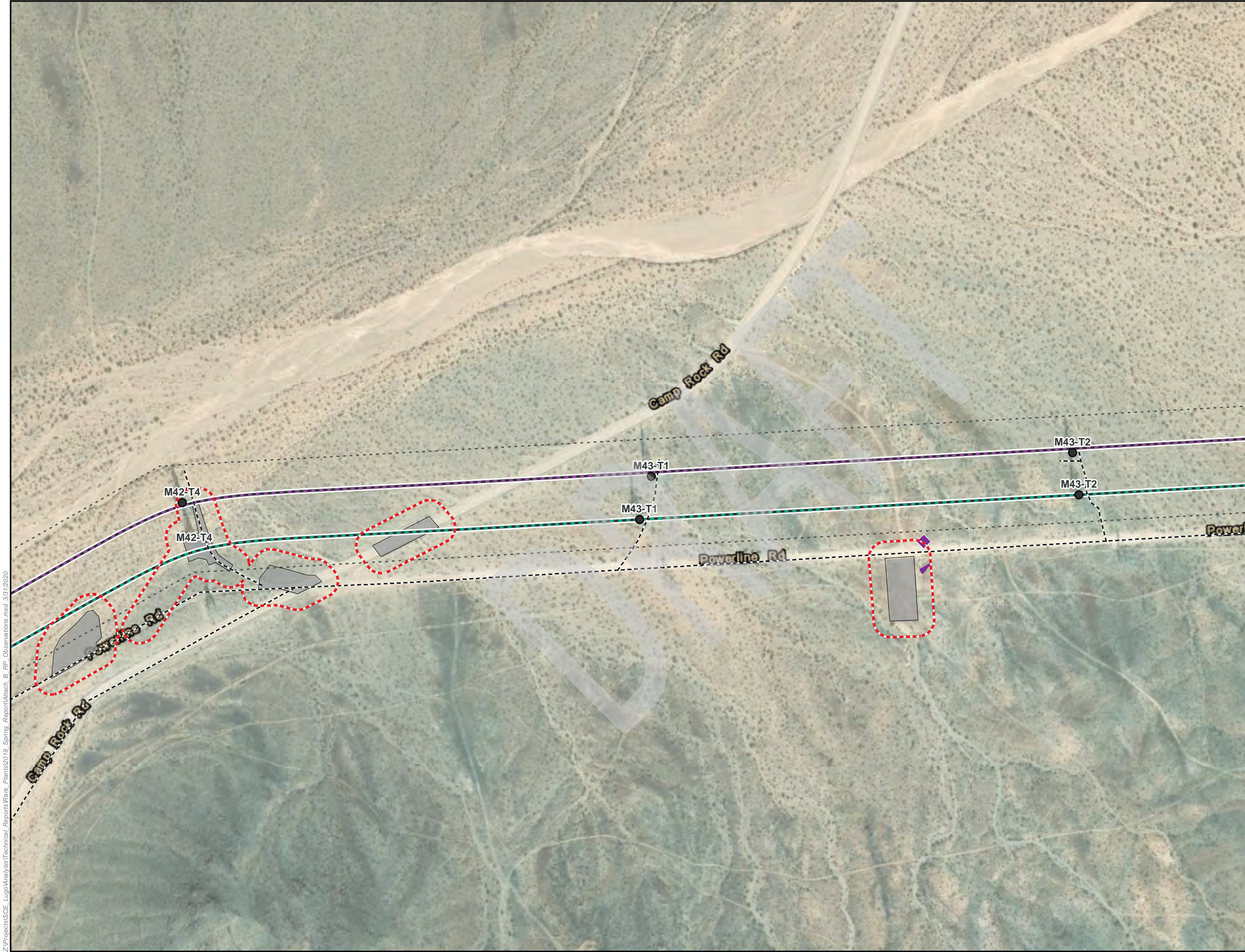
Source: Insignia, 2019; SCE, 2019

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Attachment B: Locations of Special-Status Plants Observed
Map 6 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

- Survey Area
- Project Components**
- Eldorado - Lugo 500 kV Transmission Line
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Menodora spinescens* var. *mohavensis*
- Menodora spinescens* var. *mohavensis*



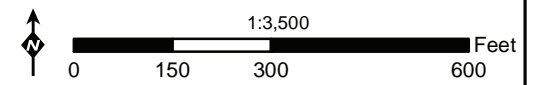
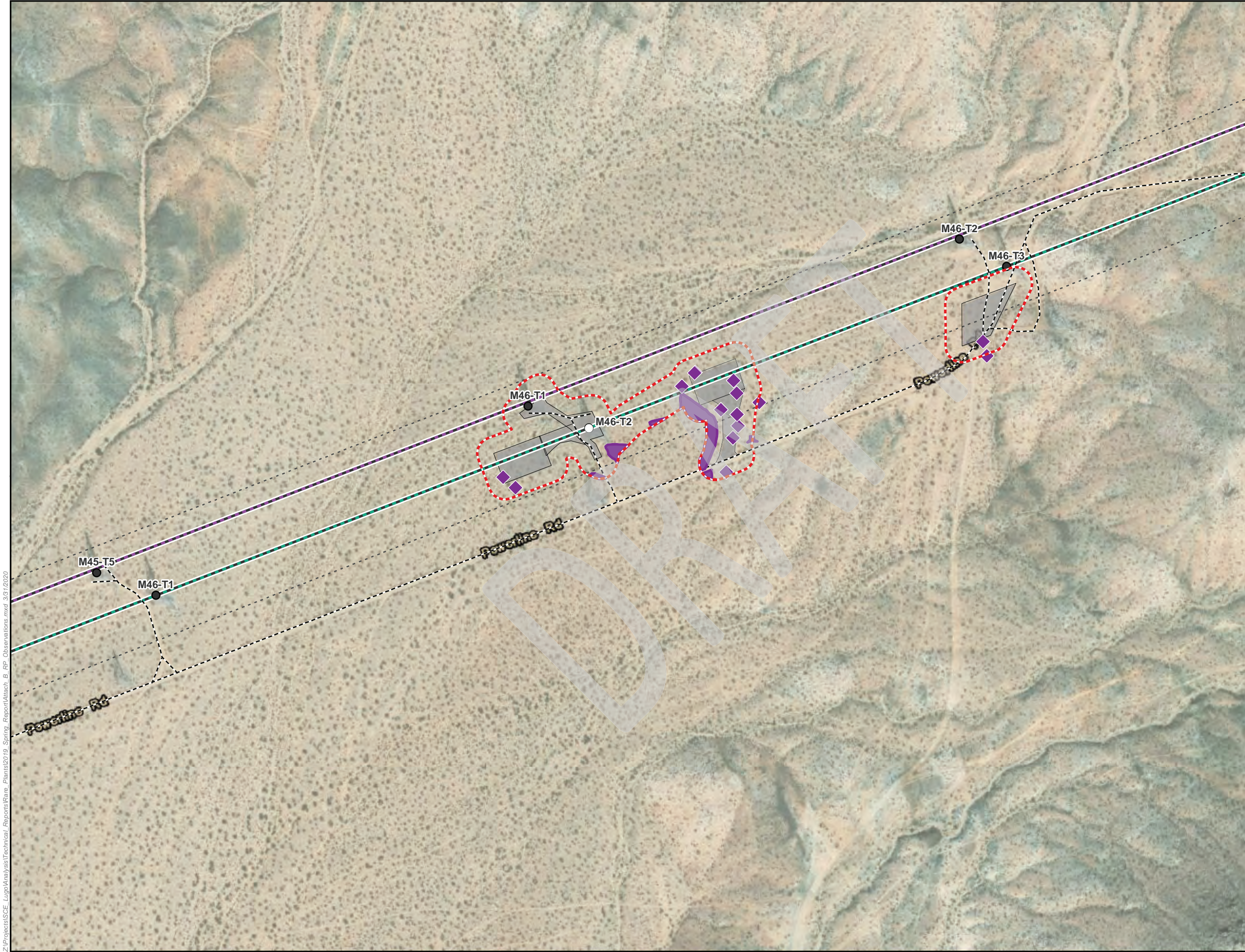
Source: Insignia, 2019; SCE, 2019

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Attachment B: Locations of Special-Status Plants Observed
Map 7 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

- Survey Area
- Project Components**
- Eldorado - Lugo 500 kV Transmission Line
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Modified Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Menodora spinescens* var. *mohavensis*
- *Menodora spinescens* var. *mohavensis*



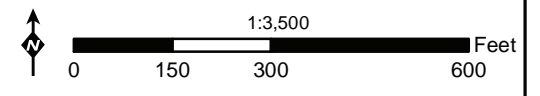
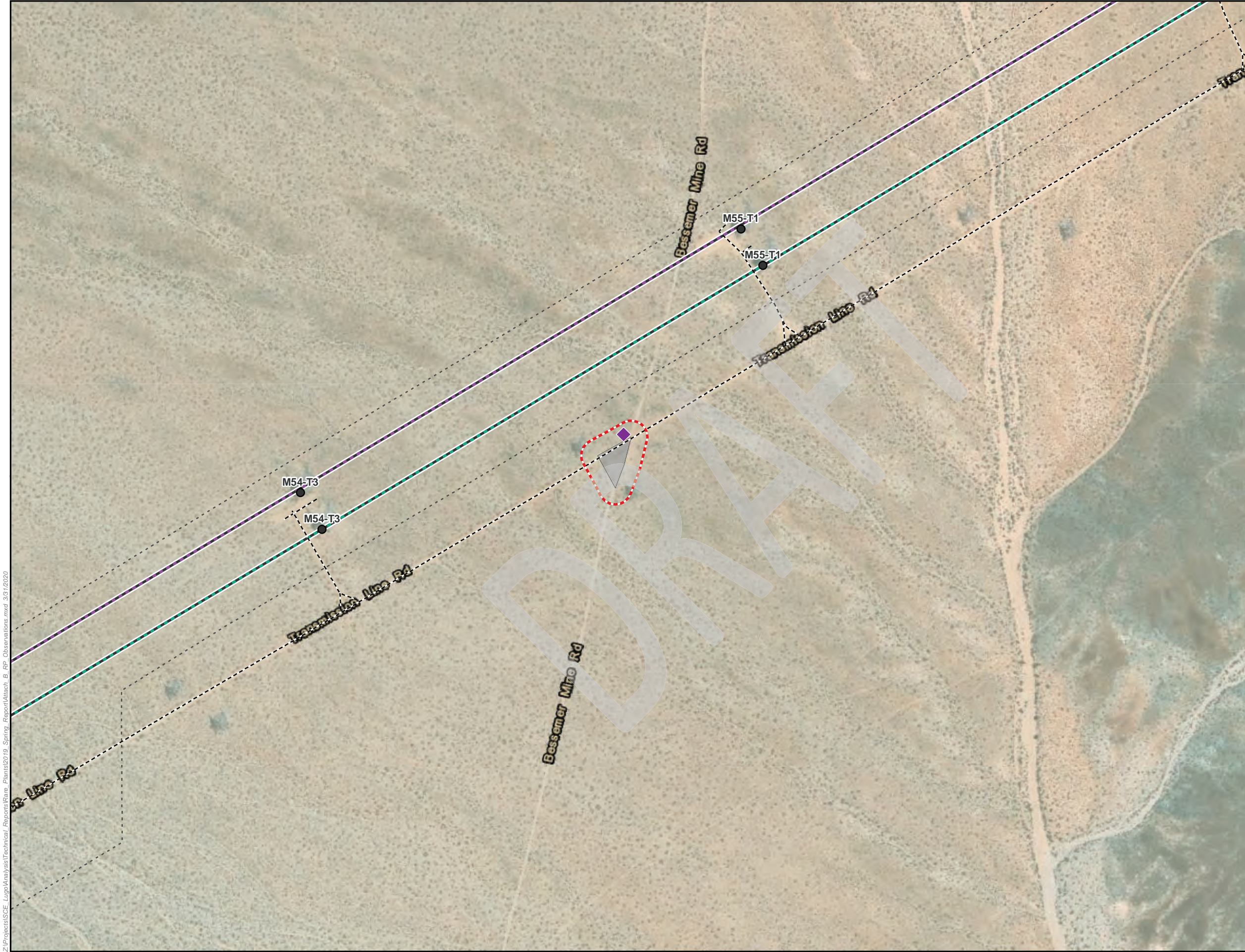
Source: Insignia, 2019; SCE, 2019

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**Attachment B: Locations of
Special-Status Plants Observed
Map 8 of 24**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

- Survey Area
- Project Components**
- Eldorado - Lugo 500 kV Transmission Line
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Menodora spinescens* var. *mohavensis*



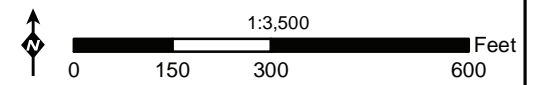
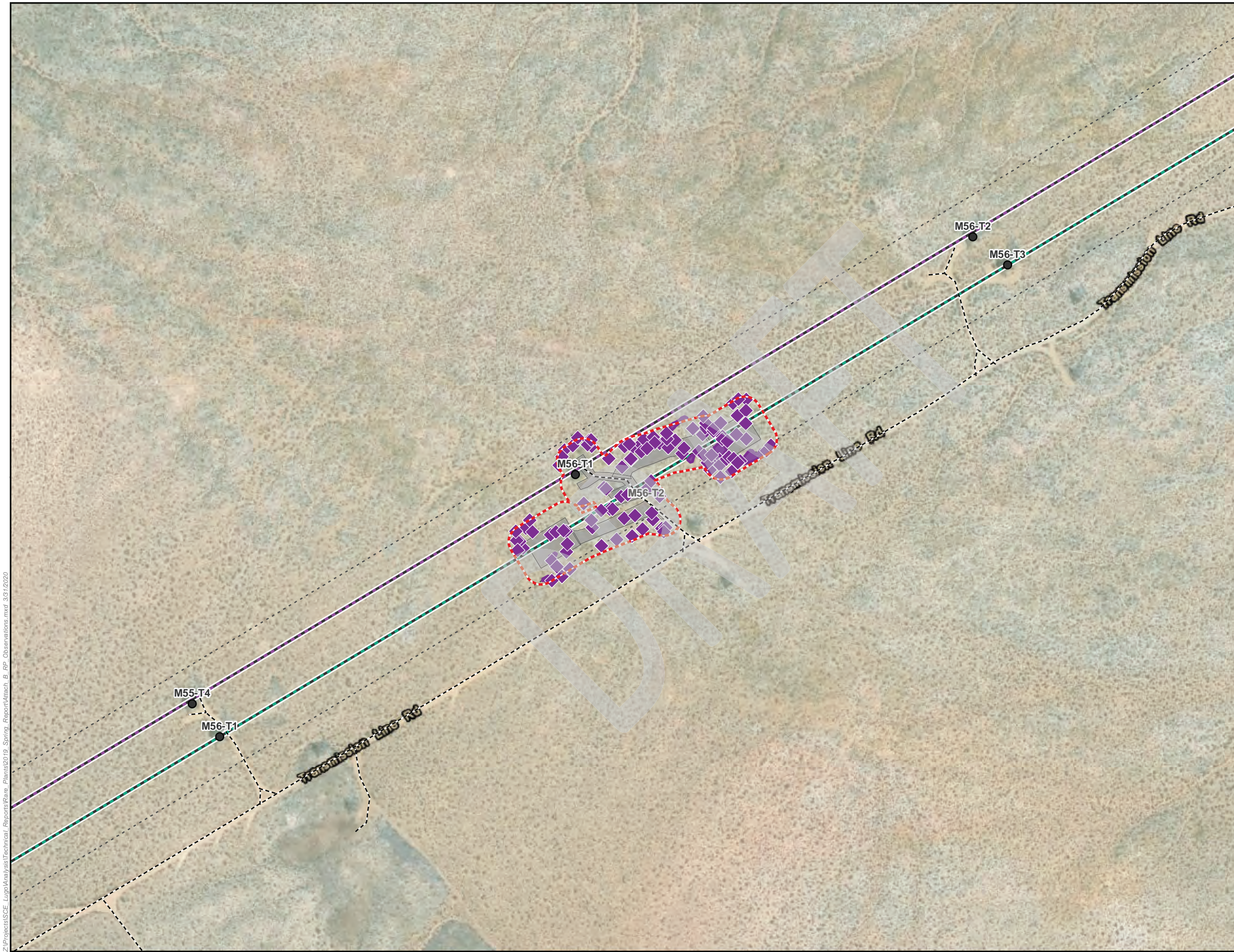
Source: Insignia, 2019; SCE, 2019

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**Attachment B: Locations of
Special-Status Plants Observed
Map 9 of 24**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

- Survey Area
- Project Components**
- Eldorado - Lugo 500 kV Transmission Line
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Modified Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Menodora spinescens* var. *mohavensis*
- Menodora spinescens* var. *mohavensis*












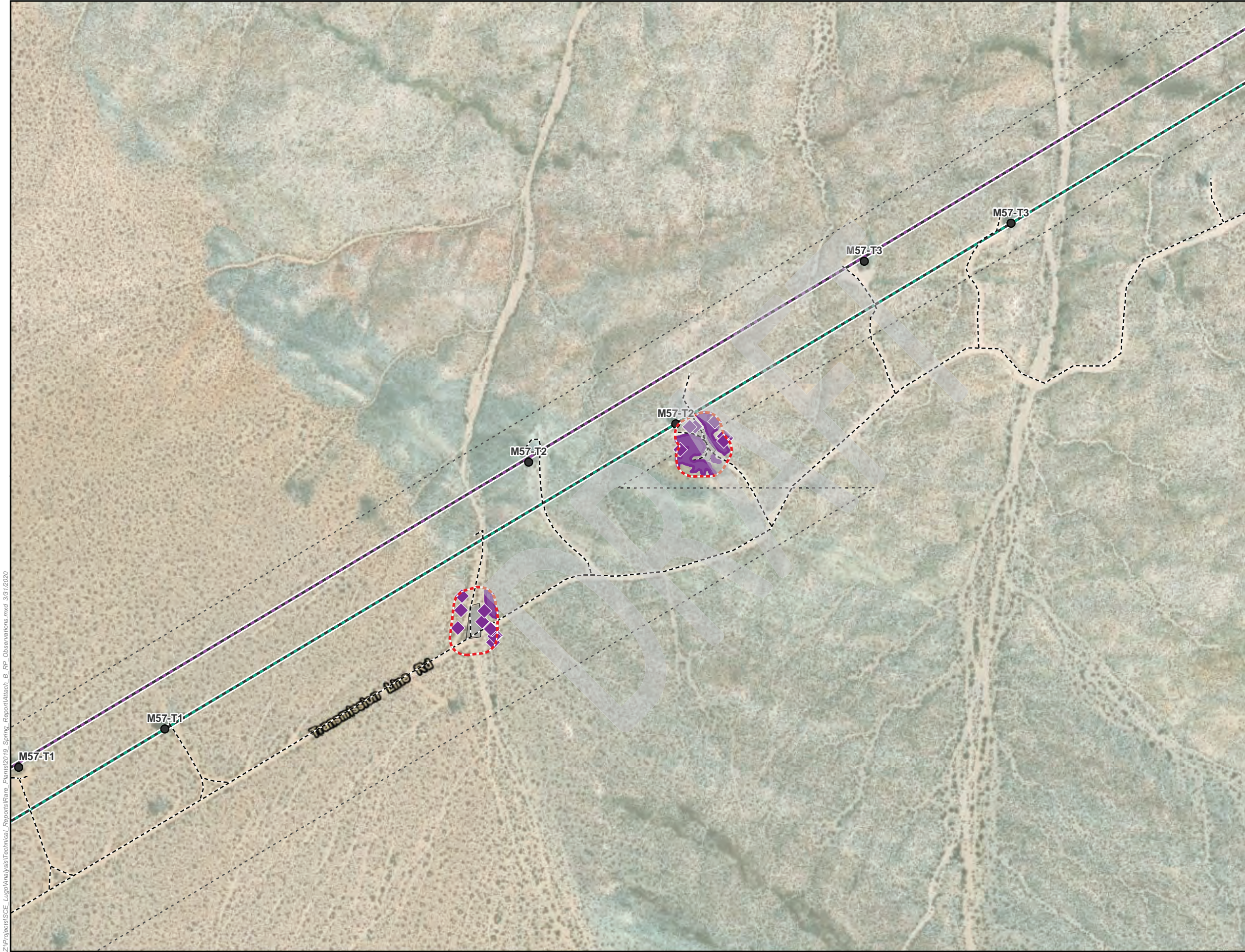
Source: Insignia, 2019; SCE, 2019

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Attachment B: Locations of Special-Status Plants Observed
Map 10 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

-  Survey Area
- Project Components**
-  Eldorado - Lugo 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Survey Results**
-  *Menodora spinescens* var. *mohavensis*
-  *Menodora spinescens* var. *mohavensis*












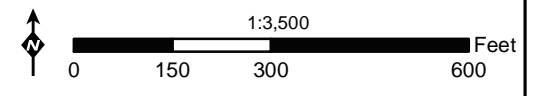
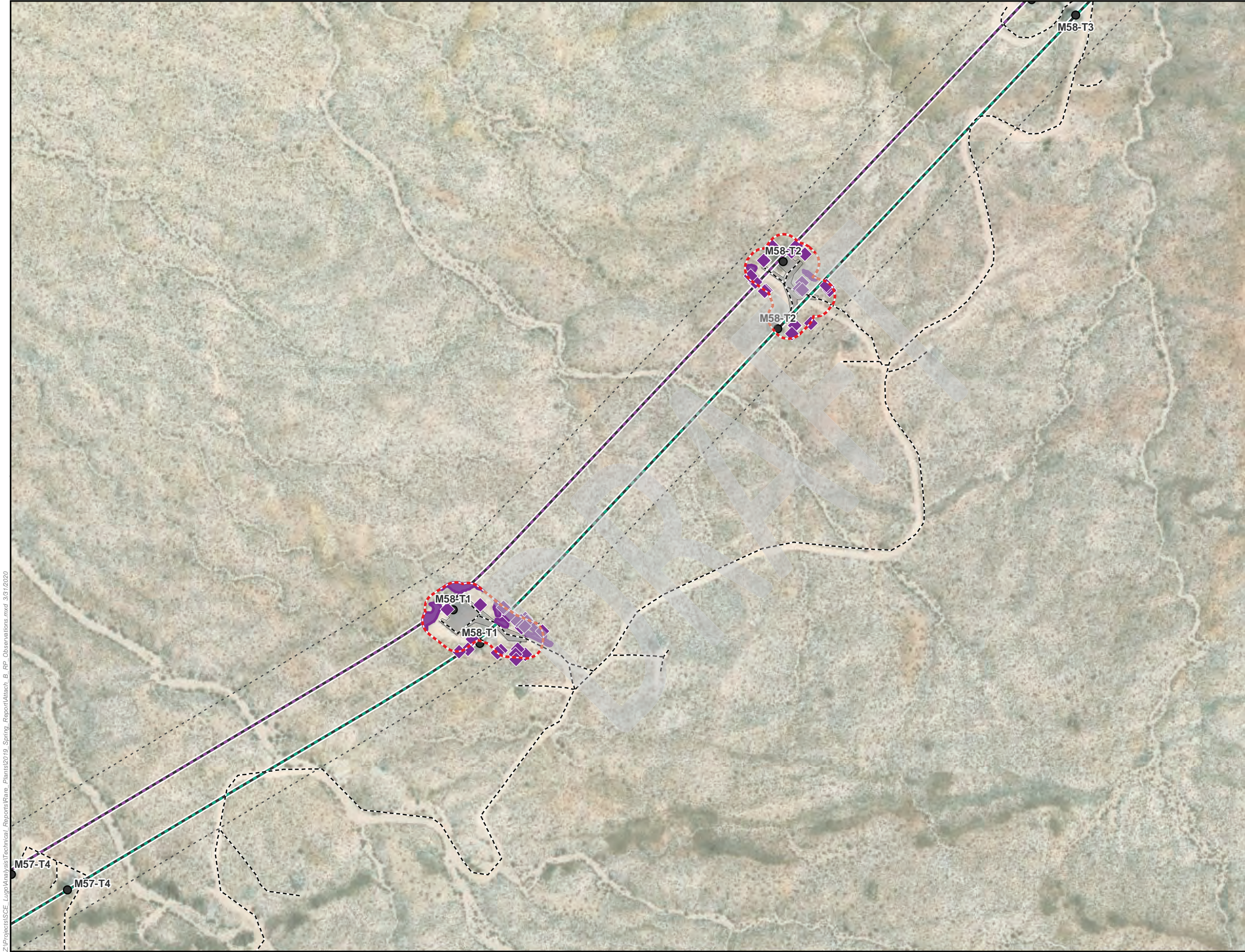
Source: Insignia, 2019; SCE, 2019

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Attachment B: Locations of Special-Status Plants Observed
Map 11 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

-  Survey Area
- Project Components**
-  Eldorado - Lugo 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Survey Results**
-  *Menodora spinescens* var. *mohavensis*
-  *Menodora spinescens* var. *mohavensis*












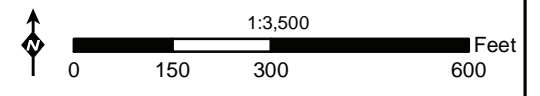
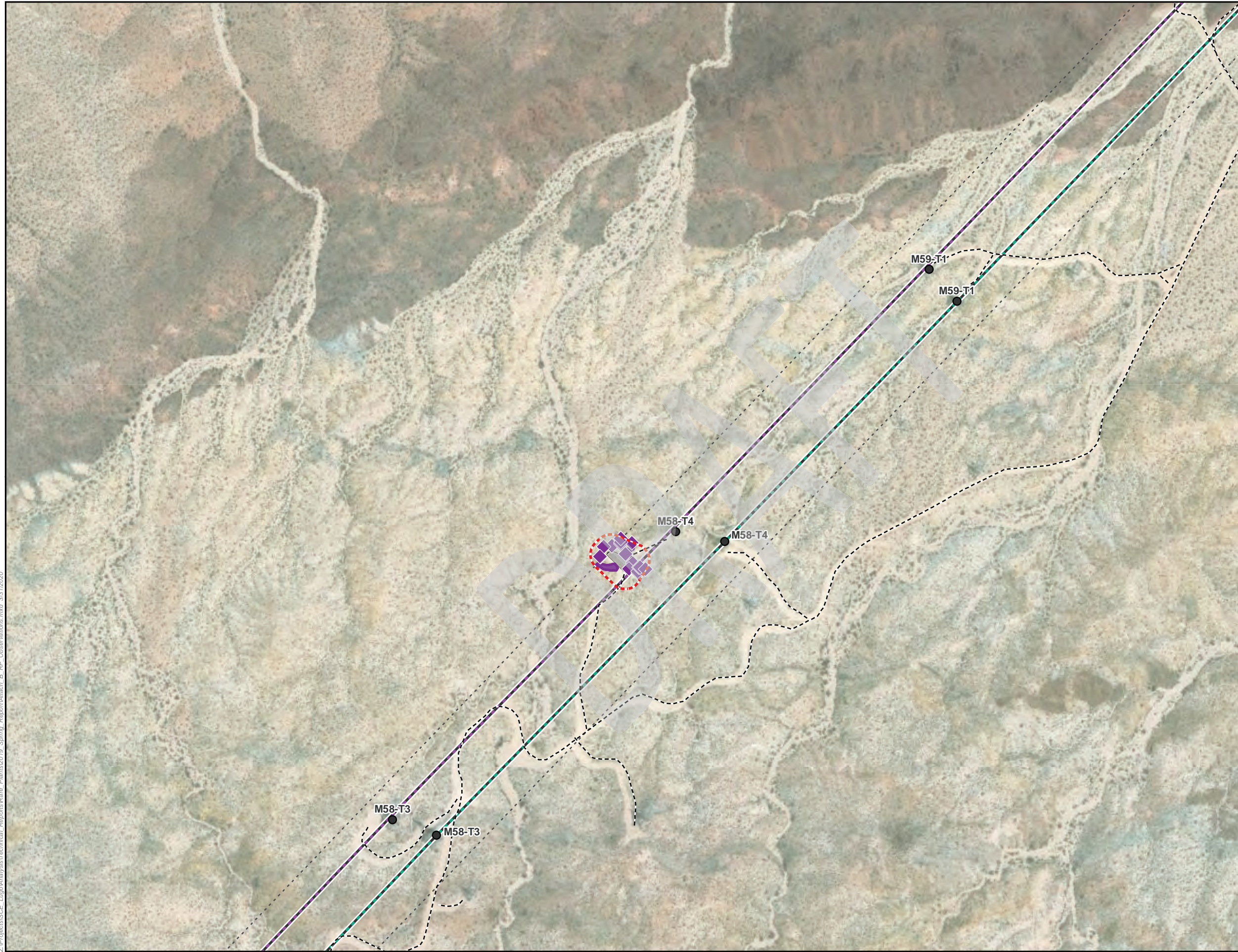
Source: Insignia, 2019; SCE, 2019

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Attachment B: Locations of Special-Status Plants Observed
Map 12 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

-  Survey Area
- Project Components**
-  Eldorado - Lugo 500 kV Transmission Line
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Survey Results**
-  *Menodora spinescens* var. *mohavensis*
-  *Menodora spinescens* var. *mohavensis*



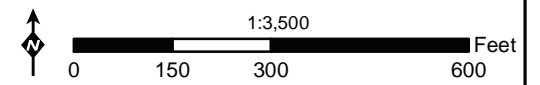
Source: Insignia, 2019; SCE, 2019

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Attachment B: Locations of Special-Status Plants Observed
Map 13 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

- Survey Area
- Project Components**
- Eldorado - Lugo 500 kV Transmission Line
- Existing Substation
- Existing Transmission Structure
- Existing Distribution Structure
- Existing Substation Boundary
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Androstephium breviflorum*



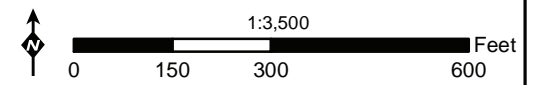
Source: Insignia, 2019; SCE, 2019

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**Attachment B: Locations of
Special-Status Plants Observed
Map 14 of 24**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

- Survey Area
- Project Components**
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Modified Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Androstephium breviflorum*
- Androstephium breviflorum*



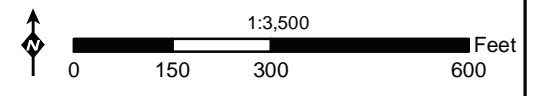
Source: Insignia, 2019; SCE, 2019

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Attachment B: Locations of Special-Status Plants Observed
Map 15 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

- Survey Area
- Project Components**
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Nemacaulis denudata* var. *gracilis*











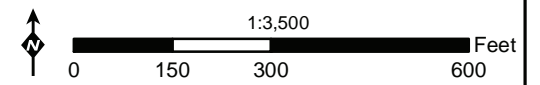
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Attachment B: Locations of Special-Status Plants Observed
Map 16 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Survey Results**
-  *Sphaeralcea rusbyi* var. *eremicola*
-  *Sphaeralcea rusbyi* var. *eremicola*



Source: Insignia, 2019; SCE, 2019

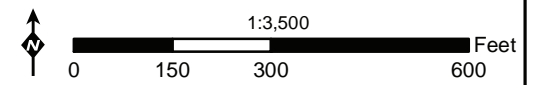
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Attachment B: Locations of Special-Status Plants Observed
Map 17 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

- Survey Area
- Project Components**
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Sphaeralcea rusbyi* var. *eremicola*
- Sphaeralcea rusbyi* var. *eremicola*

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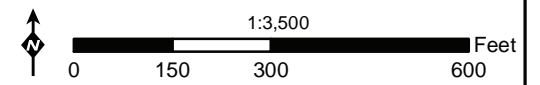
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Source: Insignia, 2019; SCE, 2019

Attachment B: Locations of Special-Status Plants Observed
Map 18 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

- Survey Area
- Project Components**
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Modified Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Muhlenbergia appressa*
- ◆ *Sphaeralcea rusbyi* var. *eremicola*
- Sphaeralcea rusbyi* var. *eremicola*



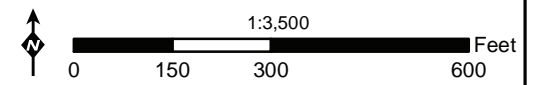
Source: Insignia, 2019; SCE, 2019

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**Attachment B: Locations of
Special-Status Plants Observed
Map 19 of 24**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

- Survey Area
- Project Components**
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Sphaeralcea rusbyi* var. *eremicola*



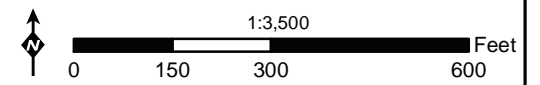
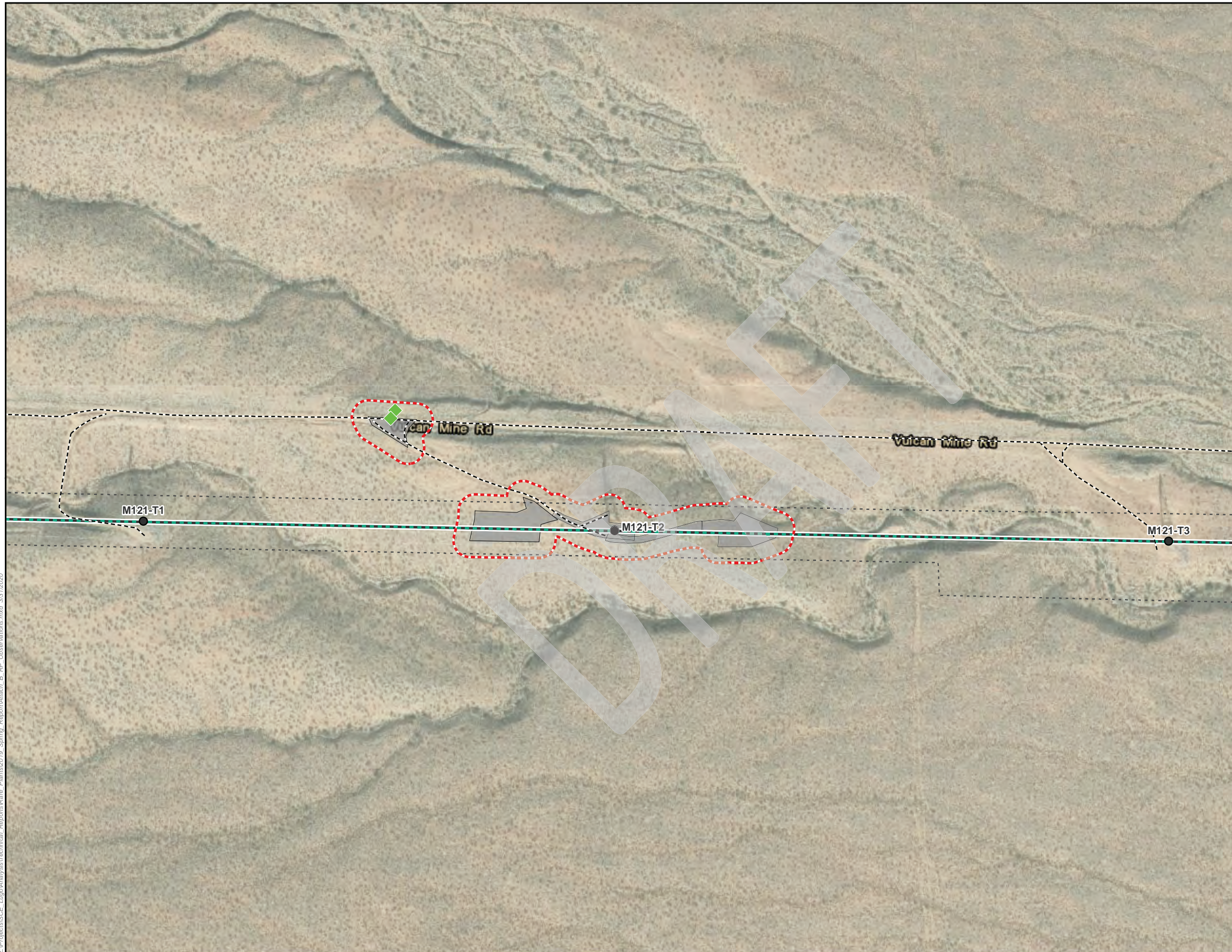
Source: Insignia, 2019; SCE, 2019

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**Attachment B: Locations of
Special-Status Plants Observed
Map 20 of 24**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

- Survey Area
- Project Components**
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Modified Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Sphaeralcea rusbyi* var. *eremicola*



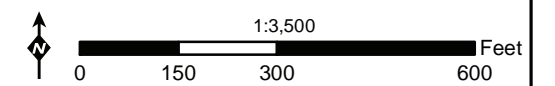
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**Attachment B: Locations of
Special-Status Plants Observed
Map 21 of 24**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

- Survey Area
- Project Components**
- Lugo - Mohave 500 kV Transmission Line
- Existing Transmission Structure
- Construction Area
- Right-of-Way
- Access Road
- Survey Results**
- ◆ *Sphaeralcea rusbyi* var. *eremicola*












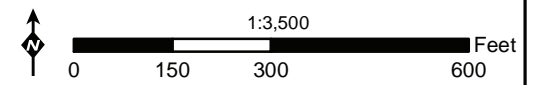
Source: Insignia, 2019; SCE, 2019

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Attachment B: Locations of Special-Status Plants Observed
Map 22 of 24

Eldorado-Lugo-Mohave Series Capacitor Project

-  Survey Area
- Project Components**
-  Lugo - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Survey Results**
-  *Mentzelia tricuspis*
-  *Mentzelia tricuspis*











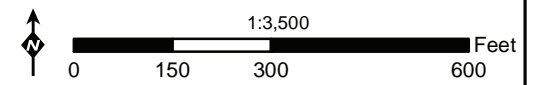
Source: Insignia, 2019; SCE, 2019

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Attachment B: Locations of Special-Status Plants Observed
Map 23 of 24

Eldorado-Lugo-Mohave Series Capacitor Project









-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Survey Results**
-  *Eriogonum plumatella*

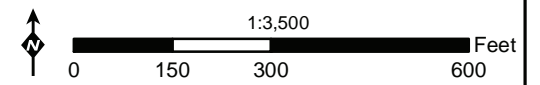


Source: Insignia, 2019; SCE, 2019

**Attachment B: Locations of
Special-Status Plants Observed
Map 24 of 24**

**Eldorado-Lugo-Mohave
Series Capacitor Project**

-  Survey Area
- Project Components**
-  Eldorado - Mohave 500 kV Transmission Line
-  Existing Transmission Structure
-  Modified Transmission Structure
-  Construction Area
-  Right-of-Way
-  Access Road
- Survey Results**
-  *Penstemon bicolor ssp. roseus*



Source: Insignia, 2019; SCE, 2019

ATTACHMENT C: INVENTORY OF PLANT SPECIES OBSERVED

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ATTACHMENT C: INVENTORY OF PLANT SPECIES OBSERVED

Family	Scientific Name	Common Name	Non-native
Ferns and Allies			
Pteridaceae	<i>Myriopteris parryi</i>	Parry's lip fern	
Gymnosperms			
Cupressaceae	<i>Juniperus californica</i>	California juniper	
Ephedraceae	<i>Ephedra californica</i>	Desert tea	
Ephedraceae	<i>Ephedra nevadensis</i>	Nevada ephedra	
Ephedraceae	<i>Ephedra viridis</i>	Green jointfir	
Angiosperms - Monocots			
Agavaceae	<i>Agave deserti</i> var. <i>simplex</i>	Simple desert agave	
Agavaceae	<i>Hesperocallis undulata</i>	Desert lily	
Agavaceae	<i>Hesperoyucca whipplei</i>	Our Lord's candle	
Agavaceae	<i>Yucca baccata</i> var. <i>baccata</i>	Spanish bayonet	
Agavaceae	<i>Yucca brevifolia</i>	Joshua tree	
Agavaceae	<i>Yucca schidigera</i>	Mohave yucca	
Aliaceae	<i>Allium atrorubens</i>	Dark red onion	
Aliaceae	<i>Allium lacunosum</i>	Pitted onion	
Liliaceae	<i>Calochortus flexuosus</i>	Winding mariposa lily	
Liliaceae	<i>Calochortus kennedyi</i> var. <i>kennedyi</i>	Mariposa lily	
Melanthiaceae	<i>Toxicoscordion brevibracteatum</i>	Desert death camas	
Poaceae	<i>Aristida adscensionis</i>	Six-weeks three-awn	
Poaceae	<i>Aristida purpurea</i> var. <i>fendleriana</i>	Fendler three-awn	
Poaceae	<i>Aristida purpurea</i> var. <i>longiseta</i>	Red three awn	
Poaceae	<i>Avena barbata</i>	Slender wild oat	x
Poaceae	<i>Bromus arenarius</i>	Australian brome	x
Poaceae	<i>Bromus arizonicus</i>	Arizona brome	
Poaceae	<i>Bromus diandrus</i>	Ripgut brome	x
Poaceae	<i>Bromus madritensis</i> ssp. <i>rubens</i>	Foxtail chess	x
Poaceae	<i>Bromus tectorum</i>	Cheat grass	x
Poaceae	<i>Cynodon dactylon</i>	Bermudagrass	x
Poaceae	<i>Dasyochloa pulchella</i>	Fluff grass	

Attachment C: Inventory of Plant Species Observed

Family	Scientific Name	Common Name	Non-native
Poaceae	<i>Elymus elymoides</i> var. <i>elymoides</i>	Squirreltail	
Poaceae	<i>Elymus trachycaulus</i>	Slender wheatgrass	
Poaceae	<i>Festuca octoflora</i>	Six-week's fescue	
Poaceae	<i>Hilaria rigida</i>	Big galleta	
Poaceae	<i>Hordeum murinum</i> ssp. <i>murinum</i>	Wall barley	x
Poaceae	<i>Melica imperfecta</i>	Little California melic	
Poaceae	<i>Muhlenbergia appressa</i>	Appressed muhly	
Poaceae	<i>Muhlenbergia porteri</i>	Muhly	
Poaceae	<i>Pennisetum setaceum</i>	Crimson fountain grass	x
Poaceae	<i>Poa secunda</i> ssp. <i>juncifolia</i>	Big alkali grass	
Poaceae	<i>Poa secunda</i> ssp. <i>secunda</i>	Pacific bluegrass	
Poaceae	<i>Schismus barbatus</i>	Mediterranean grass	x
Poaceae	<i>Sporobolus cryptandrus</i>	Sand dropseed	
Poaceae	<i>Stipa comata</i> var. <i>comata</i>	Needle-and-thread	
Poaceae	<i>Stipa hymenoides</i>	Indian ricegrass	
Poaceae	<i>Stipa speciosa</i>	Desert needlegrass	
Poaceae	<i>Triticum aestivum</i>	Common wheat	x
Themidaceae	<i>Androstephium breviflorum</i>	Small-flowered androstephium	
Themidaceae	<i>Dichelostemma capitatum</i> ssp. <i>capitatum</i>	Grassnut	
Themidaceae	<i>Dichelostemma capitatum</i> ssp. <i>pauciflorum</i>	Few-flowered blue dicks	
Angiosperms - Dicots			
Adoxaceae	<i>Sambucus nigra</i>	Black elderberry	
Agavaceae	<i>Nolina bigelovii</i>	Bigelow's nolina	
Aizoaceae	<i>Mesembryanthemum nodiflorum</i>	Slender-leaved iceplant	x
Amaranthaceae	<i>Amaranthus fimbriatus</i>	Fringed amaranth	
Amaranthaceae	<i>Tidestromia lanuginosa</i>	Woolly tidestromia	
Amaranthaceae	<i>Tidestromia suffruticosa</i> var. <i>oblongifolia</i>	Honeysweet	
Apiaceae	<i>Cymopterus purpurascens</i>	Cymopterus	
Apiaceae	<i>Lomatium mohavense</i>	Mohave wild parsley	
Apiaceae	<i>Lomatium nevadense</i> var. <i>nevadense</i>	Nevada lomatium	

Family	Scientific Name	Common Name	Non-native
Apocynaceae	<i>Amsonia tomentosa</i>	Amsonia	
Apocynaceae	<i>Asclepias erosa</i>	Desert milkweed	
Apocynaceae	<i>Asclepias nyctaginifolia</i>	Mojave milkweed	
Apocynaceae	<i>Asclepias subulata</i>	Ajamete	
Apocynaceae	<i>Carissa macrocarpa</i>	Natal plum	x
Apocynaceae	<i>Funastrum hirtellum</i>	Trailing townula	
Apocynaceae	<i>Nerium oleander</i>	Oleander	x
Asteraceae	<i>Acamptopappus sphaerocephalus</i> var. <i>sphaerocephalus</i>	Rayless goldenhead	
Asteraceae	<i>Adenophyllum cooperi</i>	Dogweed	
Asteraceae	<i>Adenophyllum porophylloides</i>	Adenophyllum	
Asteraceae	<i>Ambrosia acanthicarpa</i>	Annual burweed	
Asteraceae	<i>Ambrosia dumosa</i>	Sandbur	
Asteraceae	<i>Ambrosia eriocentra</i>	Woolly bur-sage	
Asteraceae	<i>Ambrosia salsola</i>	Common burrobrush	
Asteraceae	<i>Amphipappus fremontii</i> var. <i>spinusus</i>	Spiny Fremont's chaffbush	
Asteraceae	<i>Anisocoma acaulis</i>	Scalebud	
Asteraceae	<i>Artemisia ludoviciana</i> ssp. <i>incompta</i>	Mountain wormwood	
Asteraceae	<i>Artemisia tridentata</i> ssp. <i>tridentata</i>	Great Basin sagebrush	
Asteraceae	<i>Atrichoseris platyphylla</i>	Gravel-ghost	
Asteraceae	<i>Bahiopsis parishii</i>	Parish's goldeneye	
Asteraceae	<i>Baileya multiradiata</i>	Desert-marigold	
Asteraceae	<i>Bebbia juncea</i> var. <i>aspera</i>	Rush sweetbush	
Asteraceae	<i>Brickellia atractyloides</i>	Pungent grickellbush	
Asteraceae	<i>Brickellia desertorum</i>	Desert brickellbush	
Asteraceae	<i>Brickellia incana</i>	White brickellbush	
Asteraceae	<i>Calycoseris parryi</i>	Yellow tack-stem	
Asteraceae	<i>Chaenactis carphoclinia</i> var. <i>carphoclinia</i>	Pebble pincushion	
Asteraceae	<i>Chaenactis fremontii</i>	Fremont pincushion	
Asteraceae	<i>Chaenactis macrantha</i>	Bighead dusty maidens	
Asteraceae	<i>Chaenactis stevioides</i>	Desert pincushion	

Attachment C: Inventory of Plant Species Observed

Family	Scientific Name	Common Name	Non-native
Asteraceae	<i>Chaenactis xantiana</i>	Fleshcolor pincushion	
Asteraceae	<i>Chaetopappa ericoides</i>	Rose heath	
Asteraceae	<i>Cirsium neomexicanum</i>	Desert thistle	
Asteraceae	<i>Dicoria canescens</i>	Dicoria	
Asteraceae	<i>Dieteria canescens</i> var. <i>leucanthemifolia</i>	Hoary aster	
Asteraceae	<i>Encelia actoni</i>	Bush encelia	
Asteraceae	<i>Encelia farinosa</i>	Brittlebush	
Asteraceae	<i>Encelia frutescens</i>	Bush encelia	
Asteraceae	<i>Encelia virginensis</i>	Encelia	
Asteraceae	<i>Ericameria cooperi</i> var. <i>cooperi</i>	Cooper's goldenbush	
Asteraceae	<i>Ericameria cuneata</i> var. <i>cuneata</i>	Rock goldenbush	
Asteraceae	<i>Ericameria laricifolia</i>	Turpentine-brush	
Asteraceae	<i>Ericameria linearifolia</i>	Narrowleaf goldenbush	
Asteraceae	<i>Ericameria nauseosa</i>	Rubber rabbitbrush	
Asteraceae	<i>Ericameria paniculata</i>	Sticky rabbitbrush	
Asteraceae	<i>Eriophyllum lanosum</i>	White easterbonnets	
Asteraceae	<i>Eriophyllum pringlei</i>	Pringle's woolly sunflower	
Asteraceae	<i>Eriophyllum wallacei</i>	Woolly easterbonnets	
Asteraceae	<i>Geraea canescens</i>	Desert-sunflower	
Asteraceae	<i>Gutierrezia sarothrae</i>	Broom snakeweed	
Asteraceae	<i>Lasthenia californica</i> ssp. <i>californica</i>	California goldfields	
Asteraceae	<i>Layia glandulosa</i>	White layia	
Asteraceae	<i>Leptosyne bigelovii</i>	Tickseed	
Asteraceae	<i>Malacothrix coulteri</i>	Snake's-head	
Asteraceae	<i>Malacothrix glabrata</i>	Smooth desert dandelion	
Asteraceae	<i>Monoptilon bellidiforme</i>	Desert star	
Asteraceae	<i>Monoptilon bellioides</i>	Desert star	
Asteraceae	<i>Palafoxia arida</i> var. <i>arida</i>	Spanish needles	
Asteraceae	<i>Pentachaeta aurea</i> ssp. <i>aurea</i>	Golden-rayed pentachaeta	
Asteraceae	<i>Perityle emoryi</i>	Emory's rock daisy	

Family	Scientific Name	Common Name	Non-native
Asteraceae	<i>Peucephyllum schottii</i>	Pygmy-cedar	
Asteraceae	<i>Pleurocoronis pluriseta</i>	Arrow-leaf	
Asteraceae	<i>Porophyllum gracile</i>	Odora	
Asteraceae	<i>Prenanthes exigu</i>	Thorny skeleton plant	
Asteraceae	<i>Prenanthes exigu</i>	Brightwhite	
Asteraceae	<i>Psathyrotes ramosissima</i>	Turtleback	
Asteraceae	<i>Psilostrophe cooperi</i>	Whitestem paperflower	
Asteraceae	<i>Rafinesquia californica</i>	California chicory	
Asteraceae	<i>Rafinesquia neomexicana</i>	Desert chicory	
Asteraceae	<i>Senecio spartioides</i>	Broom groundsel	
Asteraceae	<i>Sonchus asper</i>	Spiny sowthistle	x
Asteraceae	<i>Stephanomeria exigu</i> ssp. <i>exigu</i>	Small wirelettuce	
Asteraceae	<i>Stephanomeria pauciflora</i>	Desert milk-aster	
Asteraceae	<i>Stylocline intertexta</i>	Tangled nest straw	
Asteraceae	<i>Stylocline psilocarphoides</i>	Peck's stylocline	
Asteraceae	<i>Tetradymia axillaris</i> var. <i>longispina</i>	Horsebrush	
Asteraceae	<i>Tetradymia stenolepis</i>	Mojave horsebrush	
Asteraceae	<i>Trichoptilium incisum</i>	Yellowhead	
Asteraceae	<i>Uropappus lindleyi</i>	Silver puffs	
Asteraceae	<i>Xylorhiza tortifolia</i> var. <i>tortifolia</i>	Mojave-aster	
Bignoniaceae	<i>Chilopsis linearis</i> ssp. <i>arcuata</i>	Desert willow	
Boraginaceae	<i>Amsinckia intermedia</i>	Common fiddleneck	
Boraginaceae	<i>Amsinckia menziesii</i>	Small-flowered fiddleneck	
Boraginaceae	<i>Amsinckia tessellata</i> var. <i>tessellata</i>	Desert fiddleneck	
Boraginaceae	<i>Cryptantha angustifolia</i>	Narrow-leaved cryptantha	
Boraginaceae	<i>Cryptantha barbiger</i> var. <i>barbiger</i>	Bearded cryptantha	
Boraginaceae	<i>Cryptantha circumscissa</i> var. <i>circumscissa</i>	Cushion cryptantha	
Boraginaceae	<i>Cryptantha gracilis</i>	Slender cryptantha	
Boraginaceae	<i>Cryptantha maritima</i>	Guadalupe cryptantha	

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Family	Scientific Name	Common Name	Non-native
Boraginaceae	<i>Cryptantha micrantha</i> var. <i>micrantha</i>	Red-root cryptantha	
Boraginaceae	<i>Cryptantha nevadensis</i>	Nevada cryptantha	
Boraginaceae	<i>Cryptantha oxygona</i>	Sharp nut cryptantha	
Boraginaceae	<i>Cryptantha pterocarya</i>	Winged-nut cryptantha	
Boraginaceae	<i>Cryptantha pterocarya</i> var. <i>pterocarya</i>	Winged-nut cryptantha	
Boraginaceae	<i>Cryptantha simulans</i>	Pine cryptantha	
Boraginaceae	<i>Eriodictyon trichocalyx</i> var. <i>trichocalyx</i>	Yerba santa	
Boraginaceae	<i>Eucrypta chrysanthemifolia</i> var. <i>bipinnatifida</i>	Eucrypta	
Boraginaceae	<i>Eucrypta micrantha</i>	Eucrypta	
Boraginaceae	<i>Lithospermum ruderale</i>	Stoneseed	
Boraginaceae	<i>Nama californicum</i>	Purple mat	
Boraginaceae	<i>Nama demissum</i> var. <i>demissum</i>	Purple mat	
Boraginaceae	<i>Nama pusilla</i>	Small Leaf Nama	
Boraginaceae	<i>Pectocarya penicillata</i>	Northern pectocarya	
Boraginaceae	<i>Pectocarya platycarpa</i>	Wide-toothed pectocarya	
Boraginaceae	<i>Pectocarya recurvata</i>	Arched-nut pectocarya	
Boraginaceae	<i>Pectocarya setosa</i>	Round-nut pectocarya	
Boraginaceae	<i>Phacelia bicolor</i>	Twocolor phacelia	
Boraginaceae	<i>Phacelia campanularia</i> var. <i>campanularia</i>	Desert bluebells	
Boraginaceae	<i>Phacelia crenulata</i> var. <i>ambigua</i>	Phacelia	
Boraginaceae	<i>Phacelia crenulata</i> var. <i>minutiflora</i>	Phacelia	
Boraginaceae	<i>Phacelia curvipes</i>	Washoe phacelia	
Boraginaceae	<i>Phacelia distans</i>	Distant scorpion-weed	
Boraginaceae	<i>Phacelia fremontii</i>	Phacelia	
Boraginaceae	<i>Phacelia neglecta</i>	Alkali phacelia	
Boraginaceae	<i>Phacelia rotundifolia</i>	Round leaf phacelia	
Boraginaceae	<i>Phacelia tanacetifolia</i>	Tansy-leaf phacelia	
Boraginaceae	<i>Phacelia vallis-mortae</i>	Death Valley phacelia	

Family	Scientific Name	Common Name	Non-native
Boraginaceae	<i>Plagiobothrys arizonicus</i>	Arizona popcornflower	
Boraginaceae	<i>Plagiobothrys jonesii</i>	Mojave popcornflower	
Boraginaceae	<i>Tiquilia canescens</i> var. <i>canescens</i>	Tiquilia	
Boraginaceae	<i>Tiquilia palmeri</i>	Palmer's crinkleemat	
Boraginaceae	<i>Tiquilia plicata</i>	Fan-leaved tiquilia	
Brassicaceae	<i>Boechea perennans</i>	Perennial rockcross	
Brassicaceae	<i>Boechea pulchra</i>	Beautiful rockcross	
Brassicaceae	<i>Brassica nigra</i>	Black mustard	x
Brassicaceae	<i>Brassica tournefortii</i>	Sahara mustard	x
Brassicaceae	<i>Caulanthus cooperi</i>	Jewelflower	
Brassicaceae	<i>Caulanthus lasiophyllus</i>	California mustard	
Brassicaceae	<i>Chorispora tenella</i>	Crossflower	x
Brassicaceae	<i>Descurainia pinnata</i> ssp. <i>glabra</i>	Tansy mustard	
Brassicaceae	<i>Descurainia sophia</i>	Tansy mustard	x
Brassicaceae	<i>Dithyrea californica</i>	Spectacle-pod	
Brassicaceae	<i>Draba cuneifolia</i>	Draba	
Brassicaceae	<i>Hirschfeldia incana</i>	Summer mustard	x
Brassicaceae	<i>Lepidium densiflorum</i>	Dense-flower peppergrass	
Brassicaceae	<i>Lepidium fremontii</i>	Desert peppergrass	
Brassicaceae	<i>Lepidium lasiocarpum</i> ssp. <i>lasiocarpum</i>	Sand peppergrass	
Brassicaceae	<i>Physaria tenella</i>	Bladderpod	
Brassicaceae	<i>Raphanus sativus</i>	Wild radish	x
Brassicaceae	<i>Sisymbrium altissimum</i>	Tall hedge-mustard	x
Brassicaceae	<i>Sisymbrium irio</i>	London rocket	x
Brassicaceae	<i>Sisymbrium orientale</i>	Sisymbrium	x
Brassicaceae	<i>Streptanthella longirostris</i>	Streptanthella	
Brassicaceae	<i>Thysanocarpus curvipes</i> ssp. <i>curvipes</i>	Lacepod	
Brassicaceae	<i>Tropidocarpum gracile</i>	Dobie pod	
Cactaceae	<i>Cylindropuntia acanthocarpa</i>	Buckhorn cholla	
Cactaceae	<i>Cylindropuntia bigelovii</i>	Teddy-bear cholla	

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Family	Scientific Name	Common Name	Non-native
Cactaceae	<i>Cylindropuntia echinocarpa</i>	Golden cholla	
Cactaceae	<i>Cylindropuntia ramosissima</i>	Pencil cholla	
Cactaceae	<i>Echinocactus polycephalus</i> var. <i>polycephalus</i>	Clustered barrel cactus	
Cactaceae	<i>Echinocereus engelmannii</i>	Hedgehog cactus	
Cactaceae	<i>Echinocereus Mojavensis</i>	Hedgehog cactus	
Cactaceae	<i>Ferocactus cylindraceus</i>	California barrel cactus	
Cactaceae	<i>Grusonia parishii</i>	Club cholla	
Cactaceae	<i>Mammillaria tetrancistra</i>	Fish-hook cactus	
Cactaceae	<i>Opuntia basilaris</i> var. <i>brachyclada</i>	Short-jointed beavertail	
Cactaceae	<i>Opuntia basilaris</i> var. <i>basilaris</i>	Beavertail cactus	
Cactaceae	<i>Opuntia engelmannii</i> var. <i>engelmannii</i>	Engelmann prickly-pear	
Cactaceae	<i>Opuntia polyacantha</i> var. <i>erinacea</i>	Mojave prickly-pear	
Campanulaceae	<i>Nemacladus ramosissimus</i>	Nemacladus	
Caprifoliaceae	<i>Symphoricarpos rotundifolius</i> var. <i>parishii</i>	Parish's snowberry	
Caryophyllaceae	<i>Achyronychia cooperi</i>	Frost-mat	
Caryophyllaceae	<i>Eremogone macradenia</i> var. <i>macradenia</i>	Desert sandwort	
Chenopodiaceae	<i>Atriplex canescens</i> var. <i>canescens</i>	Wingscale	
Chenopodiaceae	<i>Atriplex elegans</i>	Wheelscale	
Chenopodiaceae	<i>Atriplex hymenelyrta</i>	Desert holly	
Chenopodiaceae	<i>Atriplex polycarpa</i>	Allscale	
Chenopodiaceae	<i>Chenopodium album</i>	Lambs quarters	x
Chenopodiaceae	<i>Chenopodium californicum</i>	California goosefoot	
Chenopodiaceae	<i>Grayia spinosa</i>	Hop-sage	
Chenopodiaceae	<i>Krascheninnikovia lanata</i>	Winter fat	
Chenopodiaceae	<i>Salsola tragus</i>	Tumbleweed	x
Chenopodiaceae	<i>Suaeda nigra</i>	Desert blite	
Cleomaceae	<i>Peritoma arborea</i> var. <i>angustata</i>	Bladderpod	
Convolvulaceae	<i>Convolvulus arvensis</i>	Field bindweed	x
Convolvulaceae	<i>Cuscuta denticulata</i>	Small-tooth dodder	

Family	Scientific Name	Common Name	Non-native
Crassulaceae	<i>Dudleya lanceolata</i>	Southern california dudleya	
Crassulaceae	<i>Dudleya saxosa</i> ssp. <i>aloides</i>	Panamint dudleya	
Cucurbitaceae	<i>Cucurbita palmata</i>	Coyote melon	
Euphorbiaceae	<i>Croton californicus</i>	Croton	
Euphorbiaceae	<i>Croton setiger</i>	Turkey-mullein	
Euphorbiaceae	<i>Ditaxis neomexicana</i>	Ditaxis	
Euphorbiaceae	<i>Ditaxis serrata</i> var. <i>serrata</i>	Saw toothed ditaxis	
Euphorbiaceae	<i>Euphorbia albomarginata</i>	Rattlesnake sandmat	
Euphorbiaceae	<i>Euphorbia polycarpa</i>	Smallseed sandmat	
Euphorbiaceae	<i>Stillingia linearifolia</i>	Desert stillingia	
Euphorbiaceae	<i>Stillingia spinulosa</i>	Broad leaved stillingia	
Fabaceae	<i>Acmispon brachycarpus</i>	Hill lotus	
Fabaceae	<i>Acmispon glaber</i> var. <i>brevialatus</i>	Short winged deerweed	
Fabaceae	<i>Acmispon maritimus</i> var. <i>brevivexillus</i>	Coastal lotus	
Fabaceae	<i>Acmispon rigidus</i>	Broom lotus	
Fabaceae	<i>Acmispon strigosus</i>	Strigose lotus	
Fabaceae	<i>Acmispon wrangelianus</i>	Calf lotus	
Fabaceae	<i>Astragalus didymocarpus</i>	Dwarf white milk vetch	
Fabaceae	<i>Astragalus layneae</i>	Layne's milkvetch	
Fabaceae	<i>Astragalus lentiginosus</i> var. <i>fremontii</i>	Fremont's freckled milkvetch	
Fabaceae	<i>Astragalus nuttallianus</i> var. <i>imperfectus</i>	Small-flowered milkvetch	
Fabaceae	<i>Dalea mollis</i>	Hairy prairie clover	
Fabaceae	<i>Dalea mollissima</i>	Silky dalea	
Fabaceae	<i>Lupinus arizonicus</i>	Arizona lupine	
Fabaceae	<i>Lupinus bicolor</i>	Tiny-flowered lupine	
Fabaceae	<i>Lupinus brevicaulis</i>	Shortstem lupine	
Fabaceae	<i>Lupinus concinnus</i>	Bajada lupine	
Fabaceae	<i>Lupinus flavoculatus</i>	Lupine	
Fabaceae	<i>Lupinus sparsiflorus</i>	Coulter's lupine	
Fabaceae	<i>Marina parryi</i>	Parry's marina	

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Family	Scientific Name	Common Name	Non-native
Fabaceae	<i>Melilotus officinalis</i>	Yellow sweet clover	x
Fabaceae	<i>Parkinsonia florida</i>	Blue palo verde	
Fabaceae	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	Honey mesquite	
Fabaceae	<i>Psoralea argophylla</i>	Johnson's indigobush	
Fabaceae	<i>Psoralea fremontii</i> var. <i>fremontii</i>	Indigo bush	
Fabaceae	<i>Psoralea polydenia</i>	Nevada indigobush	
Fabaceae	<i>Psoralea spinosa</i>	Smoke tree	
Fabaceae	<i>Senegalia greggii</i>	Catclaw acacia	
Fabaceae	<i>Senna armata</i>	Armed senna	
Fabaceae	<i>Senna covesii</i>	Cove's cassia	
Fouquieriaceae	<i>Fouquieria splendens</i>	Ocotillo	
Geraniaceae	<i>Erodium cicutarium</i>	Red-stem filaree	x
Geraniaceae	<i>Erodium texanum</i>	Texas storksbill	
Krameriaceae	<i>Krameria bicolor</i>	White rhatany	
Krameriaceae	<i>Krameria erecta</i>	Purple heather	
Lamiaceae	<i>Condea emoryi</i>	Desert lavender	
Lamiaceae	<i>Salvia columbariae</i>	Chia	
Lamiaceae	<i>Salvia dorrii</i> var. <i>dorrii</i>	Desert sage	
Lamiaceae	<i>Salvia dorrii</i> var. <i>pilosa</i>	Sage	
Lamiaceae	<i>Scutellaria mexicana</i>	Mexican bladder sage	
Loasaceae	<i>Mentzelia affinis</i>	Yellow blazing star	
Loasaceae	<i>Mentzelia albicaulis</i>	White stemmed blazing star	
Loasaceae	<i>Mentzelia congesta</i>	Clustered blazing star	
Loasaceae	<i>Mentzelia involucreata</i>	Blazing star	
Loasaceae	<i>Mentzelia nitens</i>	Blazing star	
Loasaceae	<i>Mentzelia oreophila</i>	Blazing star	
Loasaceae	<i>Mentzelia tricuspis</i>	Spiny hair blazing star	
Loasaceae	<i>Petalonyx thurberi</i> ssp. <i>thurberi</i>	Sandpaper plant	
Malpighiaceae	<i>Janusia gracilis</i>	Slender janusia	
Malvaceae	<i>Eremalche exilis</i>	White mallow	
Malvaceae	<i>Eremalche rotundifolia</i>	Desert five-spot	

Family	Scientific Name	Common Name	Non-native
Malvaceae	<i>Sphaeralcea ambigua</i> var. <i>ambigua</i>	Apricot mallow	
Malvaceae	<i>Sphaeralcea ambigua</i> var. <i>rugosa</i>	Roughleaf apricot mallow	
Malvaceae	<i>Sphaeralcea rusbyi</i> var. <i>eremicola</i>	Rusby's desert mallow	
Martyniaceae	<i>Proboscidea parviflora</i>	Doubleclaw	
Montiaceae	<i>Calandrinia menziesii</i>	Kisses	
Montiaceae	<i>Calyptridium monandrum</i>	Common pussypaws	
Montiaceae	<i>Claytonia perfoliata</i>	Miner's lettuce	
Myrtaceae	<i>Eucalyptus</i> sp.	Eucalyptus	x
Nyctaginaceae	<i>Abronia pogonantha</i>	Sand verbena	
Nyctaginaceae	<i>Abronia villosa</i> var. <i>villosa</i>	Sand verbena	
Nyctaginaceae	<i>Allionia incarnata</i> var. <i>incarnata</i>	Trailing windmills	
Nyctaginaceae	<i>Allionia incarnata</i> var. <i>villosa</i>	Windmills	
Nyctaginaceae	<i>Mirabilis albida</i>	Four o'clock	
Nyctaginaceae	<i>Mirabilis laevis</i> var. <i>crassifolia</i>	Wishbone bush	
Nyctaginaceae	<i>Mirabilis laevis</i> var. <i>retrorsa</i>	Four o'clock	
Nyctaginaceae	<i>Mirabilis laevis</i> var. <i>villosa</i>	Four o'clock	
Nyctaginaceae	<i>Mirabilis multiflora</i> var. <i>pubescens</i>	Four o'clock	
Oleaceae	<i>Menodora scabra</i> var. <i>glabrescens</i>	Desert olive	
Oleaceae	<i>Menodora spinescens</i> var. <i>mohavensis</i>	Mojave menodora	
Onagraceae	<i>Camissonia campestris</i> ssp. <i>campestris</i>	Mojave sun cup	
Onagraceae	<i>Camissoniopsis pallida</i>	Pale yellow sun cup	
Onagraceae	<i>Chylismia brevipes</i> ssp. <i>brevipes</i>	Yellow cups	
Onagraceae	<i>Chylismia claviformis</i> ssp. <i>aurantiaca</i>	Evening primrose	
Onagraceae	<i>Chylismia claviformis</i> ssp. <i>claviformis</i>	Evening primrose	
Onagraceae	<i>Chylismia claviformis</i> ssp. <i>peirsonii</i>	Peirson's clavate fruited primrose	
Onagraceae	<i>Chylismia multijuga</i>	Froststem suncup	
Onagraceae	<i>Eremothera boothii</i> ssp. <i>condensata</i>	Evening-primrose	
Onagraceae	<i>Eremothera chamaenerioides</i>	Long fruit suncup	

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Family	Scientific Name	Common Name	Non-native
Onagraceae	<i>Eremothera refracta</i>	Sun cup	
Onagraceae	<i>Eulobus californicus</i>	Camissonia	
Onograceae	<i>Oenothera californica</i> ssp. <i>avita</i>	California evening primrose	
Onagraceae	<i>Oenothera californica</i> ssp. <i>californica</i>	Evening primrose	
Onagraceae	<i>Oenothera cespitosa</i>	Tufted evening-primrose	
Onagraceae	<i>Oenothera deltoides</i>	Devil's lantern	
Onagraceae	<i>Oenothera primiveris</i> ssp. <i>primiveris</i>	Evening primrose	
Onograceae	<i>Tetrapteron palmeri</i>	Palmer's evening primrose	
Orobanchaceae	<i>Aphyllon cooperi</i>	Desert broom-rape	
Orobanchaceae	<i>Castilleja chromosa</i>	Desert paintbrush	
Orobanchaceae	<i>Castilleja plagiotoma</i>	Mojave paintbrush	
Papaveraceae	<i>Argemone corymbosa</i>	Prickly poppy	
Papaveraceae	<i>Eschscholzia californica</i>	California poppy	
Papaveraceae	<i>Eschscholzia glyptosperma</i>	Desert golden poppy	
Papaveraceae	<i>Eschscholzia minutiflora</i>	Pygmy golden poppy	
Papaveraceae	<i>Platystemon californicus</i>	Cream cups	
Phrymaceae	<i>Diplacus bigelovii</i>	Bigelow's monkeyflower	
Picrodendraceae	<i>Tetracoccus hallii</i>	Hall's purple bush	
Plantaginaceae	<i>Antirrhinum filipes</i>	Snapdragon	
Plantaginaceae	<i>Mohavea confertiflora</i>	Mohavea	
Plantaginaceae	<i>Penstemon bicolor</i> ssp. <i>roseus</i>	Rosy two-toned beardtongue	
Plantaginaceae	<i>Plantago ovata</i>	Desert Indianwheat	
Plantaginaceae	<i>Plantago patagonica</i>	Plantain	
Polemoniaceae	<i>Aliciella latifolia</i> ssp. <i>latifolia</i>	Broad-leaved aliciella	
Polemoniaceae	<i>Aliciella leptomeria</i>	Sand gilia	
Polemoniaceae	<i>Eriastrum diffusum</i>	Miniature wool star	
Polemoniaceae	<i>Eriastrum eremicum</i> ssp. <i>eremicum</i>	Woollystar	
Polemoniaceae	<i>Eriastrum sapphirinum</i>	Sapphire wool star	
Polemoniaceae	<i>Eriastrum wilcoxii</i>	Wilcox's woollystar	
Polemoniaceae	<i>Gilia aliquanta</i> ssp. <i>breviloba</i>	Puff calyx gilia	

Family	Scientific Name	Common Name	Non-native
Polemoniaceae	<i>Gilia brecciarum</i>	Nevada gilia	
Polemoniaceae	<i>Gilia cana</i> ssp. <i>bernardina</i>	Showy gilia	
Polemoniaceae	<i>Gilia minor</i>	Little gilia	
Polemoniaceae	<i>Gilia scopulorum</i>	Rock gilia	
Polemoniaceae	<i>Gilia stellata</i>	Star gilia	
Polemoniaceae	<i>Ipomopsis polycladon</i>	Sprawling skyrocket	
Polemoniaceae	<i>Langloisia setosissima</i> ssp. <i>punctata</i>	Lilac sunbonnet	
Polemoniaceae	<i>Langloisia setosissima</i> ssp. <i>setosissima</i>	Bristly langloisia	
Polemoniaceae	<i>Leptosiphon aureus</i> ssp. <i>aureus</i>	Desert gold	
Polemoniaceae	<i>Leptosiphon aureus</i> ssp. <i>decorus</i>	Linanthus	
Polemoniaceae	<i>Leptosiphon breviculus</i>	Mojave linanthus	
Polemoniaceae	<i>Leptosiphon ciliatus</i>	Whiskerbrush	
Polemoniaceae	<i>Linanthus bigelovii</i>	Linanthus	
Polemoniaceae	<i>Linanthus demissus</i>	Linanthus	
Polemoniaceae	<i>Linanthus jonesii</i>	Linanthus	
Polemoniaceae	<i>Linanthus parryae</i>	Linanthus	
Polemoniaceae	<i>Loeseliastrum matthewsii</i>	Desert calico	
Polemoniaceae	<i>Loeseliastrum schottii</i>	Loeseliastrum	
Polemoniaceae	<i>Saltugilia</i> sp.	Gilia	
Polygonaceae	<i>Centrostegia thurberi</i>	Thurber's spineflower	
Polygonaceae	<i>Chorizanthe brevicornu</i> var. <i>brevicornu</i>	Brittle spineflower	
Polygonaceae	<i>Chorizanthe corrugata</i>	Wrinkled spineflower	
Polygonaceae	<i>Chorizanthe rigida</i>	Devil's spineflower	
Polygonaceae	<i>Chorizanthe watsonii</i>	Fivetooth spineflower	
Polygonaceae	<i>Eriogonum brachypodum</i>	Parry's wild buckwheat	
Polygonaceae	<i>Eriogonum deflexum</i> var. <i>deflexum</i>	Flat topped buckwheat	
Polygonaceae	<i>Eriogonum deflexum</i> var. <i>nevadense</i>	Nevada skeleton weed	
Polygonaceae	<i>Eriogonum fasciculatum</i> var. <i>polifolium</i>	Mojave Desert California buckwheat	
Polygonaceae	<i>Eriogonum gracillimum</i>	Rose-and-white wild buckwheat	

Attachment C: Inventory of Plant Species Observed

Family	Scientific Name	Common Name	Non-native
Polygonaceae	<i>Eriogonum heermannii</i> var. <i>floccosum</i>	Clark Mountain buckwheat	
Polygonaceae	<i>Eriogonum inflatum</i>	Desert trumpet	
Polygonaceae	<i>Eriogonum maculatum</i>	Spotted wild buckwheat	
Polygonaceae	<i>Eriogonum nidularium</i>	Birdnest wild buckwheat	
Polygonaceae	<i>Eriogonum palmerianum</i>	Palmer's wild buckwheat	
Polygonaceae	<i>Eriogonum plumatella</i>	Yucca buckwheat	
Polygonaceae	<i>Eriogonum pusillum</i>	Yellow turbans	
Polygonaceae	<i>Eriogonum reniforme</i>	Kidney-leaf wild buckwheat	
Polygonaceae	<i>Eriogonum thomasi</i>	Thomas's wild buckwheat	
Polygonaceae	<i>Eriogonum trichopes</i>	Little desert trumpet	
Polygonaceae	<i>Nemacaulis denudata</i> var. <i>gracilis</i>	Slender cottonheads	
Polygonaceae	<i>Pterostegia drymarioides</i>	Woodland threadstem	
Polygonaceae	<i>Rumex hymenosepalus</i>	Canaigre	
Resedaceae	<i>Oligomeris linifolia</i>	Oligomeris	
Rhamnaceae	<i>Ceanothus pauciflorus</i>	Mojave ceanothus	
Rosaceae	<i>Adenostoma fasciculatum</i> var. <i>fasciculatum</i>	Chamise	
Rosaceae	<i>Coleogyne ramosissima</i>	Blackbush	
Rosaceae	<i>Prunus fasciculata</i> var. <i>fasciculata</i>	Desert almond	
Rosaceae	<i>Purshia tridentata</i> var. <i>glandulosa</i>	Antelope brush	
Rutaceae	<i>Thamnosma montana</i>	Turpentine-broom	
Scrophulariaceae	<i>Scrophularia desertorum</i>	Desert figwort	
Solanaceae	<i>Datura wrightii</i>	Moon-lily	
Solanaceae	<i>Lycium andersonii</i>	Anderson desert thorn	
Solanaceae	<i>Lycium cooperi</i>	Cooper desert thorn	
Solanaceae	<i>Lycium torreyi</i>	Squawthorn	
Solanaceae	<i>Nicotiana obtusifolia</i>	Desert tobacco	
Solanaceae	<i>Physalis crassifolia</i>	Ground-cherry	
Solanaceae	<i>Physalis hederifolia</i> var. <i>fendleri</i>	Fendler's ground-cherry	
Tamaricaceae	<i>Tamarix chinensis</i>	Chinese tamarisk	x
Urticaceae	<i>Parietaria hespera</i> var. <i>hespera</i>	Rillita pellitory	

Family	Scientific Name	Common Name	Non-native
Viscaceae	<i>Phoradendron californicum</i>	California mistletoe	
Zygophyllaceae	<i>Fagonia laevis</i>	California fagonia	
Zygophyllaceae	<i>Larrea tridentata</i>	Creosote bush	

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ATTACHMENT D: SPECIAL-STATUS PLANT SPECIES PHOTOGRAPHS

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ATTACHMENT D: SPECIAL-STATUS PLANT SPECIES PHOTOGRAPHS



Photograph 1:
Appressed muhly
(*Muhlenbergia
appressa*), a California
Rare Plant Rank (CRPR)
2B.2 species.



Photograph 2: Golden-
rayed pentachaeta
(*Pentachaeta aurea* ssp.
aurea), a CRPR 4.2
species.



Photograph 3: Mojave menodora (*Menodora spinescens* var. *mohavensis*), a Bureau of Land Management (BLM) sensitive species and CRPR 1B.2 species.



Photograph 4: Mojave paintbrush (*Castilleja plagiotoma*), a CRPR 4.3 species.



Photograph 5: Rosy two-toned beardtongue (*Penstemon bicolor* ssp. *roseus*), a BLM sensitive species, CRPR 1B.1 species, and Nevada S3 species.



Photograph 6: Rusby's desert-mallow (*Sphaeralcea rusbyi* var. *eremicola*), a CRPR 1B.2 species.



Photograph 7: Short-jointed beavertail (*Opuntia basilaris* var. *brachyclada*), a BLM sensitive species and CRPR 1B.2 species.



Photograph 8: Slender cottonheads (*Nemacaulis denudata* var. *gracilis*), a CRPR 2B.2 species.



Photograph 9: Small flowered androstephium (*Androstephium breviflorum*), a CRPR 2B.2 species.



Photograph 10: Spiny-hair blazing star (*Mentzelia tricuspis*), a CRPR 2B.1 species.



Photograph 11: Yucca buckwheat (*Eriogonum plumatella*), a Nevada S3 species.

Appendix D-7

LVRAS 2021 Special-Status Plant Survey Report

LUGO-VICTORVILLE 500 KV TRANSMISSION LINE REMEDIAL ACTION SCHEME PROJECT 2021 SPECIAL-STATUS PLANT SURVEY REPORT

San Bernardino County, California and
Clark County, Nevada

Prepared for:

Southern California Edison
2244 Walnut Grove
Rosemead, California 91770
Applicant Contact: Rey Gonzales
Senior Project Manager, Environmental
Southern California Edison
Rey.Gonzales@sce.com
213.244.3380

Prepared by:

Artemis Environmental Services, Inc.
Contact: Tara Baxter
tbaxter@artemis-environmental.com

In partnership with:

Rincon Consultants, Inc.
Contact: Matt Kelahan
mkelahan@rinconconsultants.com

December 3, 2021



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- Appendix A:** Figures
- Appendix B:** Special-status Plant Species Evaluation of Potential to Occur
- Appendix C:** Representative Photographs
- Appendix D:** Plant Species Observed

1 INTRODUCTION

Artemis Environmental Services, Inc. (Artemis Environmental) was retained by Rincon Consultants, Inc. (Rincon) to perform a focused special-status plant survey on behalf of Southern California Edison (SCE) for the Lugo-Victorville 500-kilovolt (kV) Transmission Line Remedial Action Scheme Project (Project). A previous botanical survey was conducted during April, May, and June 2017 by Environmental Intelligence, LLC along portions of the Project alignment (EI 2017a, EI 2017b). Artemis Environmental was retained to survey areas added to the project during the planning phase of the project and contingency work areas under consideration that were not captured in the previous survey effort (gap areas).

The Project, which is located in San Bernardino County, California and Clark County, Nevada, includes two segments, Segment 1: Gale Substation to Pisgah Substation (Gale to Pisgah; Segment 1) and Segment 2: Pisgah Substation to tower M152-T2 just beyond Nipton Substation (Pisgah to Nipton; Segment 2). Segment 1 includes the installation of telecommunication all-dielectric self-supporting (ADSS) cable line from SCE's Gale Substation near Barstow, California to SCE's Pisgah Substation near Ludlow, California for approximately 29 miles within an existing SCE right-of-way (ROW) along U.S. Route 66 and Interstate Highway 40. Segment 2 includes the removal of the existing overhead ground wire (OHGW) and replacement with Optical Ground Wire (OPGW) along approximately 84 miles within the existing SCE ROW starting at SCE's Pisgah Substation and ending at transmission tower M152-T2 within Clark County, Nevada (near Nipton Road/Joshua Tree Highway).

The special-status plant survey area (Survey Area) totals 1,894.10 acres and encompasses all potential areas where work will be performed based on the current design, including previously surveyed areas, gap areas, and contingency areas from Gale Substation to Structure 30654S with a 25-foot buffer, from Structure 30654S to Pisgah Substation with a 65-foot buffer, and from Pisgah to Nipton with a 100-foot buffer to allow for engineering and design changes.

This Special-status Plant Survey Report (Report) describes the special-status plants with potential to occur in the Survey Area and the methodology and results of focused special-status plant spring and fall surveys that were conducted in March-April and September 2021, respectively. Additional special-status plants were detected within the Survey Area during a separate survey effort in June 2021 but were recorded and included in the Spring 2021 special-status plant data. The purpose of these focused surveys was to capture the gap areas not previously surveyed and update the extent of known special-status plant populations in all areas where work will be performed across the entire 115-mile linear alignment. This Report describes the special-status plants that were observed within the Survey Area.

1.1 SURVEY AREA LOCATION

The Survey Area consists of two segments, Segment 1: Gale to Pisgah and Segment 2: Pisgah to Nipton. Segment 1 is located within an existing distribution line ROW adjacent to U.S. Route 66, traversing private land and open space public lands including those administered by the Bureau of Land Management (BLM), Department of Defense (DOD), and State Lands Commission (SLC) in San Bernardino County, California (Appendix A, Figures 1 and 2: Project Overview and Project Vicinity, respectively). Segment 2 is located within primarily undisturbed desert scrub spanning lands administered by the BLM, DOD, Mojave National Preserve (MNP), SLC, and private landowners in San Bernardino County, California and Clark County, Nevada (Appendix A, Figure 2: Project Vicinity). The western edge of the Segment 1 Survey Area, at Gale Substation, is located at latitude N34.858043, and longitude W-116.866728. Structure 429142S, which represents the eastern edge of the Segment 1 Survey Area, is located at latitude N34.780758 and longitude

W-116.386662. The Pisgah Substation is located at latitude N34.782406, and longitude W-116.384607, and the eastern edge of the Segment 2 Survey Area, at Nipton Substation is located at latitude N35.484861 and longitude W-115.187637.

1.2 SURVEY AREA SITE DESCRIPTION

The Survey Area, which totals 1,894.10 acres, includes all potential areas where work will be performed, including gap areas, and contingency work areas from Gale Substation to Structure 30654S with a 25-foot buffer, from Structure 30654S to Pisgah Substation with a 65-foot buffer, and from Pisgah to Nipton with a 100-foot buffer (Appendix A, Figure 3: Special-status Plant Observations).

Elevations vary from approximately 1,800 feet above mean sea level (AMSL) to approximately 2,100 feet AMSL within the Segment 1 and from approximately 1,100 feet AMSL to approximately 4,600 feet AMSL within Segment 2. The Survey Area is located within the American Semidesert and Desert Province ecological region (322), which encompasses the Mojave, Colorado, and Sonoran Deserts (USFS 2018). Specifically, the Survey Area is within the Mojave Desert section and ecoregion subsections: Mojave Valley-Granite Mountains, Bullion Mountains-Bristol Lake, Silurian Valley-Devil's Playground, Kingston Range-Valley Wells, Ivanpah Valley, Providence Mountains - Lanfair Valley (Walter-Feller 2020).

2 SPECIAL-STATUS PLANT SURVEY METHODS

This section outlines the pre-field analysis used to develop a list of special-status plant species with the potential to occur in the Survey Area and the field survey methods used to document special-status plant species occurrences within the Survey Area for the purpose of facilitating pre-construction avoidance and mitigation planning efforts.

2.1 PRE-FIELD ANALYSIS

Special-status plant species within the Survey Area have been afforded special-status and/or recognition by federal, state, and local resource agencies and are included in the following:

- USFWS species records (USFWS 2021)
- California Natural Diversity Database (CNDDDB; CDFW 2021)
- California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants (CNPS 2021) ¹.
- California Desert Conservation Area (BLM 1999)
- Desert Renewable Energy Conservation Plan (BLM 2016)

Prior to the initiation of field surveys, a literature review and desktop analysis were conducted to determine which special-status species have the potential to occur within five miles of the Survey Area. The following sources were consulted:

- Vegetation mapping completed during habitat assessment studies performed by Environmental Intelligence, LLC (EI 2016). Vegetation mapping, where aquatic resources were present, was updated during the 2021 aquatic resources delineation survey performed by Artemis Environmental (Artemis 2021).
- 7.5-minute USGS topographic quadrangle maps
- Aerial imagery of the Survey Area
- USFWS species records (USFWS 2021)
- California Natural Diversity Database (CNDDDB; CDFW 2021)
- California Native Plant Society (CNPS) Rare Plant Inventory (CNPS 2021)
- The U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) Web Soil Survey and State Soil Geographic Data Base (STATSGO) (NRCS 2021)
- Botanical Survey Report: Gale to Pisgah Project (EI 2017a)
- Botanical Survey Report: Lugo-Victorville 500-kV Transmission Line Remedial Action Scheme Project (EI 2017b)
- California Desert Conservation Area (BLM 1999)

¹ The CNPS and CDFW lists are identical and utilize the California Rare Plant Ranking (CRPR) designation for status.

- Desert Renewable Energy Conservation Plan (BLM 2016)

Special-status plant species with the potential to occur within the Survey Area were generally evaluated based on SCE's Species Determination Flow Chart (SCE 2017) which considers habitat suitability, distance and age of existing records, and field observations. All special-status plant species reported within five miles of the Survey Area were evaluated. Appendix B provides the potential for special-status plant species to occur within the Survey Area. The potential for occurrence ranking criteria are as follows:

Occurs – The species was observed/detected within the Survey Area during the field survey(s).

Likely – This species is expected to occur in the Survey Area based on presence of suitable habitat, and/or based on professional expertise specific to the site or species, and recent (less than 25 years) recorded occurrences for the species within two miles.

Unlikely – The Survey Area is on the periphery of the species range, or there are older records (greater than 25 years) within the Survey Area, but there is currently marginal suitable habitat on-site (habitat is highly disturbed, degraded, or limited).

Does Not Occur – This species is not expected to occur in the Survey Area. Suitable habitat was not observed in the Survey Area during the survey, the Survey Area is outside of the currently known range of the species, and/or there are no recent (less than 25 years) recorded occurrences for the species within five miles.

Absent – This species was not detected during focused field surveys. This species is conspicuous and had it been present would have been observed, or (for annuals) was observed flowering at a nearby known reference location during the survey period.

2.2 REFERENCE POPULATION CHECKS

Prior to the initiation of field surveys, qualified Artemis Environmental botanists conducted population reference checks for annual species during both the spring and fall blooming periods. Reference populations were located using the CNDDDB and Consortium of California Herbaria (CCH) databases. Representative reference populations were surveyed for the presence of selected ephemeral annual target species prior to the surveys. Spring reference populations were evaluated on March 31, 2021, during the flowering period for the target species Mojave monkeyflower (*Diplacus mohavensis*; CRPR 1B.2), creamy blazing star (*Mentzelia puberula*; CRPR 1B.3), white-margined beardtongue (*Penstemon albomarginatus*; CRPR 1B.1), and small-flowered androstephium (*Androstephium breviflorum*; CRPR 2B.2). Mojave menodora (*Menodora spinescens* var. *mohavensis*; CRPR 1B.2) was incidentally observed during reference checks, although it was not a target species requiring a reference check because it is a large conspicuous perennial. A second spring reference population check was conducted on April 27, 2021, targeting Cima milk-vetch (*Astragalus cimae* var. *cimae*; CRPR 1B.2), a higher elevation species found in Joshua tree woodland and pinyon and juniper woodland.

During the anticipated fall blooming period, reference populations were evaluated by qualified Artemis Environmental botanists on August 24, 2021, along the Project alignment and representative surrounding areas targeting the following species: black grama (*Bouteloua eriopoda*; CRPR 4.2), Abram's spurge (*Euphorbia abramsiana*; CRPR 2B.2), Parry's spurge (*Euphorbia parryi*; CRPR 2B.3), Revolute spurge (*Euphorbia revoluta*; CRPR 4.3), Utah vine milkweed (*Funastrum utahense*; CRPR 4.2), warty caltrop (*Kallstroemia parviflora*; CRPR 4.2), and desert portulaca (*Portulaca halimoides*; CRPR 4.2). Locations of the reference populations evaluated prior to fall surveys was informed by CNDDDB records, California

Consortium of Herbaria (CCH 2021) records, previous documentation by Artemis Environmental (Artemis 2021), and by personal and incidental observation.

2.3 FIELD SURVEYS

Artemis Environmental performed focused field surveys of the Survey Area for special-status plants during both the spring and fall blooming periods, during March-April and September 2021, respectively. Special-status plants incidentally observed by Artemis Environmental biologists conducting separate field efforts in 2021 focused on aquatic resources and cactus mapping were mapped during these efforts and verified during the botanical surveys.

Artemis Environmental botanists conducted pedestrian surveys at approximately 50-foot (15-meter) transect spacing throughout the Survey Area. Surveyors mapped special-status plant species points for individual plants or groups of plants less than five meters in diameter and more than five meters away from other plants of the same species. Polygon features were used to record groups of the same species of special-status plants larger than five meters in diameter and more than five meters away from groups of the same species.

The ESRI Collector application installed on tablets and smart phones was used to navigate the Survey Area and to map and document the location of special-status plant species using points and polygons. Points and polygons were recorded to sub-meter accuracy using Bluetooth connected Global Positioning Systems (GPS) units. The species scientific name, occurrence type (i.e., live or remains), estimated population size, and any observation notes were recorded directly into Collector during the surveys. Representative photographs of special-status plant species, areas of note, and a comprehensive list of all plant species within the Survey Area were recorded during the surveys. Representative photographs are provided in Appendix C: Representative Photographs. Plant species observed within the Survey Area are included in Appendix D: Plant Species Observed. One voucher specimen was collected of Abram's spurge (*Euphorbia abramsiana*) for submission to University of California Riverside. This species has not been documented previously to occur in the vicinity and was observed on BLM land in Segment 1.

2.4 SURVEY LIMITATIONS

Due to the lack of winter rains and extremely dry conditions in the general Project area in 2020-2021, there was essentially no germination of spring annuals in much of the Survey Area, and the majority of the target spring annual species did not germinate and were not detectable during the spring blooming period. Focused Spring surveys were not conducted within Segment 1 and much of Segment 2 due to the extremely dry conditions. Where conditions were more favorable in the higher elevation areas of Segment 2 within the MNP, focused spring surveys were conducted, and several species were detected.

During the fall blooming period, the area from the western end of the Project to one mile east of Fort Cady Road within Segment 1 was very dry and generally had little suitable habitat for fall special-status plants. This area was spot checked in depressions, roadsides, and other areas that showed some annual growth, but was not completely surveyed due to the poor survey conditions and/or lack of suitable habitat. Beginning one mile east of Fort Cady Road, the entire Survey Area was surveyed. Conditions for detecting fall special-status plants were generally good in this area, but mostly within washes and depressions.

All of the Segment 2 Survey Area was surveyed during the fall blooming period, however, from M81-T3 to M131-T1, germination and growth of fall annuals was generally poor, and the probability for the detection of special-status fall annuals was low in this area. From Pisgah Substation to Tower M81-T3, and from

roughly M131-T1 to the end of the Project alignment in Nevada, germination and growth of fall annuals was generally good, and survey conditions and timing were also favorable.

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3 RESULTS

3.1 POTENTIAL TO OCCUR

A total of 51 special-status plant species were analyzed for their potential to occur within the Survey Area. Sixteen species were categorized as Occurs during the spring and fall plant surveys. Nine species were determined to be Likely to Occur within the Survey Area but were not observable during the field surveys due to unfavorable spring survey conditions. Nine species determined to be Unlikely to Occur could not be definitively ruled out due to the lack of spring surveys. Sixteen conspicuous perennial species and annual species confirmed to be detectable during the survey periods were considered Absent. One species was evaluated as Does Not Occur due to the lack of suitable habitat. Further details regarding the species evaluated and their potential to occur determination can be found in Appendix B: Special-status Plant Species Evaluation of Potential to Occur.

3.2 STATUS OF REFERENCE POPULATIONS

Conditions during the spring reference population checks were noted to be extremely poor, with no or very little germination of annuals observed across most of the Project alignment with the exception of higher elevation areas in the MNP. The Mojave monkeyflower, creamy blazing star, white-margined beardtongue, and small-flowered androstephium were not observed during spring reference population checks. Only the remains of creamy blazing star and white-margined beardtongue were observed, and germination of annuals was not observed at the populations of Mojave monkeyflower and small-flowered androstephium. Mojave menodora is a conspicuous perennial shrub and several plants were observed. Approximately 30 identifiable individuals of Cima milk-vetch were observed at the second, higher-elevation, spring reference population check.

The Survey Area was observed to have received 0.22 inches of precipitation within the weeks prior to the fall reference population checks (NOAA AgACIS 2021), and germination of fall annual and perennial plant species was relatively consistent throughout the Survey Area with the exception of M81-T3 to M131-T1, where germination and growth of fall annuals was generally poor. Six of the seven species targeted for reference checks were detected. Incidental detections of black grama and revolute spurge both in flower were located in the New York Mountains approximately eight miles north of the Survey Area. Abram's spurge was detected in flower and in fruit near Pisgah Substation. A previously documented population by Artemis Environmental (Artemis 2021) of Utah vine milkweed was observed to be in flower also near the Pisgah Substation. Two observations of warty caltrop in flower and fruit were observed approximately 2.25 miles north of the Survey Area and also along the Project access road. Also, along the Project access road, desert portulaca was detected in fruit. Parry's spurge was the only target species not detected after evaluating a previously documented population recorded in the CCH records (Calflora 2021).

3.3 Special-status Plants Occurring within the Survey Area

During the spring and fall 2021 special-status plant survey, a total of 245 plant species were observed. Sixteen special-status plant species were observed within the Survey Area, fourteen of which were observed alive (Table 3). The remains and/or dormant individuals were observed of two special-status plant species. The mapping results are provided in Appendix A, Figures, Figure 3: Special-status Plant Observations. Representative photographs are also provided in Appendix C.

Table 1. Special-status Plant Species Observed in the Survey Area

Scientific Name	Common Name	Approximate* Number of Individuals Observed Live		
		Species Points	Species Polygons	Total
<i>Astragalus bernardinus</i>	San Bernardino milk-vetch	3	--	3
<i>Castela emoryi</i>	crucifixion thorn	6	--	6
<i>Coryphantha vivipara</i> var. <i>rosea</i>	viviparous foxtail cactus	92	--	92
<i>Cymopterus multinervatus</i>	purple-nerve cymopterus	13	33	46
<i>Enneapogon desvauxii</i>	nine-awn pappusgrass	171	380	551
<i>Euphorbia abramsiana</i>	Abrams' spurge	219	5,248	5,467
<i>Euphorbia extipulata</i> var. <i>extipulata</i>	Clark Mountain spurge	--	30	30
<i>Euphorbia revoluta</i>	revolute spurge	--	10	10
<i>Funastrum utahense</i>	Utah vine milkweed	45	46	91
<i>Grusonia parishii</i>	matted cholla	51	7	58
<i>Kallstroemia parviflora</i>	warty caltrop	401	3,833	4,234
<i>Opuntia curvispina</i>	curved-spine beavertail	4	--	4
<i>Portulaca halimoides</i>	desert purslane	2,718	17,391	20,109
<i>Sphaeralcea rusbyi</i> var. <i>eremicola</i>	Rusby's desert-mallow	433	374	807
	Total	4,156	27,352	31,508

* These numbers are approximate, as the individual counts within polygons were estimated.

The following are brief descriptions of each special-status plant species observed within the Survey Area.

San Bernardino milk-vetch (*Astragalus bernardinus*)

Status: CRPR 1B.2; CA Endemic; BLM_S; USDA_S

Description: Perennial herb typically blooming April to June.

Distribution: San Bernardino and Riverside counties within the Transverse Ranges and Mojave Desert between 2,955 and 6,560 feet in elevation.

Habitat: Often carbonate or granitic soils in stony areas among desert shrubs, Joshua tree woodland, and pinyon and juniper woodland.

Observations within Survey Area: Three individuals of San Bernardino milk-vetch were observed in the eastern portion of the Survey Area in the MNP, within a mile southwest of Cima Road. This species was observed during the spring surveys.

Crucifixion thorn (*Castela emoryi*)

Status: CRPR 2B.2

Description: Perennial deciduous shrub typically blooming in June to July, sometimes early as April and late as October.

Distribution: Imperial, Riverside, and San Bernardino counties into Arizona and northwestern Mexico between 300 to 2,400 feet in elevation.

Habitat: Gravelly soils of playas, washes, slopes, and plains of Mojavean and Sonoran desert scrub.

Observations within Survey Area: Six individuals of crucifixion thorn were observed in the southwestern portion of the Survey Area approximately 8.5 miles northeast of Interstate 40. This species was observed during the spring surveys.

Viviparous foxtail cactus (*Coryphantha vivipara* var. *rosea*)

Status: CRPR 2B.2

Description: Perennial stem typically blooming May to June.

Distribution: San Bernardino into northwestern Arizona and southern Nevada in the Mojave Desert between 4100 and 8860 feet in elevation.

Habitat: Limestone slopes and hills in Mojavean desert scrub and pinyon and juniper woodland.

Observations within Survey Area: A total of 92 individuals of viviparous foxtail cactus were estimated in the central portion of the MNP in the eastern portion of the Survey Area, between three miles east of Morning Star Mine Road and nine miles west of Cima Road. This species was observed during the spring and fall surveys.

Purple-nerve cymopterus (*Cymopterus multinervatus*)

Status: CRPR 2B.2

Description: Perennial herb typically blooming in March to April.

Distribution: Inyo, Riverside, and San Bernardino counties into Arizona, Nevada, Utah, New Mexico, Texas, and Baja California between 2,590 to 5,905 feet in elevation.

Habitat: Sandy or gravelly soils and rocky slopes in Mojavean desert scrub, and pinyon and juniper woodland.

Observations within Survey Area: A total of 46 individuals of purple-nerve cymopterus were estimated within the MNP in the eastern portion of the Survey Area, between three miles southeast of Kelbaker Road and northeast to Cima Road. This species was observed during the spring surveys.

Nine-awn pappusgrass (*Enneapogon desvauxii*)

Status: CRPR 2B.2

Description: Perennial herb typically blooming in August to September.

Distribution: San Bernadino County into Arizona, Nevada, Colorado, Utah, New Mexico, Texas, Oklahoma, Maryland, and Hawaii between 4185—5990 feet in elevation.

Habitat: Carbonate, calcareous, rocky substrates, on slopes and in crevices in desert and pinyon and juniper woodland.

Observations within Survey Area: A total of 551 individuals of nine-awn pappusgrass were estimated in the northeastern portion of the Survey Area, between 3.25 miles northeast of Nipton Moore Road northwest to U.S. Highway 164. This species was observed during the fall surveys.

Harwood's eriastrum (*Eriastrum harwoodii*)

Status: CRPR 1B.2; CA Endemic; BLM S

Description: Annual herb typically blooming in March to June.

Distribution: Imperial, Riverside, San Bernardino, and San Diego counties, in the Mojave Desert, and Transverse and Peninsular Ranges between 410 to 3,000 feet in elevation.

Habitat: Desert dunes and sand dunes in creosote-bush scrub.

Observations within Survey Area: The remains of Harwood's eriastrum were observed in the far western portion of the MNP within the Survey Area. No live individuals were documented.

Abrams' spurge (*Euphorbia abramsiana*)

Status: CRPR 2B.2

Description: Annual herb typically blooming in September to November, sometimes early as August.

Distribution: San Diego, Imperial, Riverside, and San Bernardino counties, into Arizona and Mexico below 4,300 feet in elevation.

Habitat: Sandy flats and cracked soils in depressions in Mojavean and Sonoran desert scrub.

Observations within Survey Area: A total of 5,467 individuals of Abrams' spurge were estimated in the southwestern portion of the Survey Area, within a mile east of Center Road for up to 3 miles, south of U.S. Route 66 and Interstate 40. This species was observed during the fall surveys.

Clark Mountain spurge (*Euphorbia exstipulata* var. *exstipulata*)

Status: CRPR 2B.1

Description: Annual herb typically blooming in September, sometimes as late as October.

Distribution: Clark Mountain in San Bernardino County, in the Mojave Desert, into Arizona, New Mexico, Utah, Texas, Oklahoma, and Wyoming between 4,200 to 6,560 feet in elevation.

Habitat: Rocky slopes and substrates in Mojavean desert scrub.

Observations within Survey Area: A total of 30 individuals of Clark Mountain spurge were estimated in the northeastern portion of the Survey Area, immediately south of U.S. Highway 164. This species was observed during the fall surveys.

Revolute spurge (*Euphorbia revoluta*)

Status: CRPR 4.3; County List D

Description: Annual herb typically blooming in August to September.

Distribution: San Diego, Riverside, and San Bernardino counties into the Rocky Mountains and Mexico between 3,500 to 10,170 feet in elevation.

Habitat: Rocky slopes in creosote bush scrub and Mojavean desert scrub.

Observations within Survey Area: A total of 10 individuals of revolute spurge were estimated in the northeastern portion of the Survey Area, north of U.S. Highway 164. This species was observed during the fall surveys.

Utah vine milkweed (*Funastrum utahense*)

Status: CRPR 4.2; County List D

Description: Perennial, viny herb typically blooming in April to June, sometimes early as March and late as October.

Distribution: Eastern San Diego, western Imperial, western Riverside, and San Bernardino counties into Utah and Arizona between 330 to 4,700 feet in elevation.

Habitat: Sandy or gravelly soils in open areas of Mojavean and Sonoran desert scrub, usually climbing and growing through other shrubs.

Observations within Survey Area: A total of 91 individuals of Utah vine milkweed were estimated in the northeastern portion of the MNP and Survey Area, between 1.25 miles northwest of Tenmile Tank and west of Nipton Moore Road. This species was observed during the spring and fall surveys.

Matted cholla (*Grusonia parishii*)

Status: CRPR 2B.2

Description: Perennial stem typically blooming in May to June, sometimes as late as July.

Distribution: Riverside and San Bernardino counties in the Transverse Ranges and Mojave Desert, into Arizona, Nevada, and Texas between 985 to 5,000 feet in elevation.

Habitat: Sandy, rocky substrates and gravelly flats in creosote-bush and bur-sage scrub, Joshua tree woodland, and Mojavean and Sonoran desert scrub.

Observations within Survey Area: A total of 58 individuals of matted cholla were estimated in the eastern portion of the MNP and northeastern portion of the Survey Area, between 6 miles southwest of Cima Road and west of Nipton Moore Road. This species was observed during the spring and fall surveys.

Warty caltrop (*Kallstroemia parviflora*)

Status: CRPR 4.2

Description: Annual herb typically blooming in August to November.

Distribution: San Diego, Imperial, Riverside, and San Bernardino counties in the Transverse and Peninsular Ranges and Mojave Desert, into Arizona, Colorado, Nevada, Utah, New Mexico, Texas, District of Columbia, Illinois, Kansas, Louisiana, Maryland, Mississippi, Missouri, Oklahoma, Pennsylvania and Sonora, Mexico between 2,805 to 5,595 feet in elevation.

Habitat: Sandy roadsides, slopes, and sometimes disturbed areas, in Mojavean desert scrub, Joshua tree woodland, and pinyon and juniper woodland.

Observations within Survey Area: A total of 4,234 individuals of warty caltrop were estimated in the northeastern portion of the MNP and Survey Area, between 11 miles southwest of Nipton Moore Road to north of U.S. Highway 164. This species was observed during the fall surveys.

Curved-spine beavertail (*Opuntia curvispina*)

Status: CRPR 2B.2

Description: Perennial stem typically blooming from April to June.

Distribution: San Bernardino County in the Mojave Desert, into Arizona and Nevada between 3,280 to 4,595 feet in elevation.

Habitat: Mojavean desert scrub, chaparral, grassland, and Joshua tree and pinyon and juniper woodland.

Observations within Survey Area: Four individuals of curved-spine beavertail were observed within the eastern portion of the MNP and in the northeastern portion of the Survey Area, around 1.75 miles northeast of Morning Star Mine Road and just south of U.S. Highway 164. This species was observed during the fall surveys.

White-margined beardtongue (*Penstemon albomarginatus*)

Status: CRPR 1B.1; BLM S

Description: Perennial herb typically blooming in March to May, sometimes as late as June.

Distribution: San Bernardino County in the Mojave Desert and into Arizona and Nevada between 2,100 to 3,495 feet in elevation.

Habitat: Sandy, stabilized soils in desert dunes and Mojavean desert scrub.

Observations within Survey Area: The remains and/or dormant individuals of white-margined beardtongue were observed in the western portion of the Survey Area. No live individuals were documented.

Desert portulaca (*Portulaca halimoides*)

Status: CRPR 4.2

Description: Annual herb typically blooming in September.

Distribution: Eastern San Bernardino County and Riverside County, into Colorado, Oklahoma, Texas, and Mexico between 3,280 to 3,940 feet in elevation.

Habitat: Sandy soils in flats and washes in Joshua tree woodland.

Observations within Survey Area: A total of 20,109 individuals of desert purslane were estimated in the eastern portion of the MNP and northeastern portion of the Survey Area, between 5 miles southwest of Cima Road and northeast of Nipton Moore Road about 1.5 miles. This species was observed during the fall surveys.

Rusby's desert-mallow (*Sphaeralcea rusbyi* var. *eremicola*)

Status: CRPR 1B.2; CA Endemic; BLM_S

Description: Perennial herb typically blooming from March to June.

Distribution: Inyo, San Bernardino, and Riverside counties in Death Valley National Park, MNP, and Joshua Tree National Park between 3,200 to 5,395 feet in elevation.

Habitat: Joshua tree woodland and Mojavean desert scrub.

Observations within Survey Area: A total of 807 individuals of Rusby's desert-mallow were estimated in the central portion of the MNP in the eastern portion of the Survey Area, between 1.25 miles southwest of Kelbaker Road to about 1.5 miles northeast of Morning Star Mine Road. This species was observed during the spring and fall surveys.

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4 REFERENCES

- Artemis Environmental (Artemis). 2021. Aquatic Resources Delineation Report for the Lugo-Victorville 500-kV Transmission Line Remedial Action Scheme Project.
- Bureau of Land Management (BLM). 1999. The California Desert Conservation Area Plan. Available from: [CDCA Plan.pdf \(blm.gov\)](#). March.
- BLM. 2016. Final Desert Renewable Energy Conservation Plan (DRECP) Land Use Plan Amendment and Record of Decision. September. Available from: [EplanningUi \(blm.gov\)](#).
- Calflora. 2021. Calflora: Information on California plants for education, research and conservation, with data contributed by public and private institutions and individuals, including the [Consortium of California Herbaria](#). [web application]. 2021. Berkeley, California: The Calflora Database [a non-profit organization]. Available: <https://www.calflora.org/>.
- California Consortium of Herbaria (CCH). 2021. Specimen data from the Consortium of California Herbaria. Website: <https://ucjeps.berkeley.edu/consortium/>
- California Department of Fish and Wildlife (CDFW). 2021. California Natural Diversity Database (CNDDDB). *RareFind5*. Electronic database. <http://www.dfg.ca.gov/biogeodata/cnddb/mapsanddata.asp>. Sacramento, California.
- California Native Plant Society (CNPS). 2021. CNPS Inventory of Rare Plants. Available at: <https://www.cnps.org/rare-plants/cnps-inventory-of-rare-plants>.
- Environmental Intelligence (EI). 2016. Habitat and Resource Assessment: Lugo-Victorville 500-kV Transmission Line Remedial Action Scheme Project.
- EI. 2017a. Botanical Survey Report: Gale to Pisgah Project, San Bernardino County, California. August 1.
- EI. 2017b. Botanical Survey Report: Lugo-Victorville 500-kV Transmission Line Remedial Action Scheme Project. San Bernardino County, California. July 12.
- National Oceanic and Atmospheric Administration (NOAA). 2021. Agricultural Applied Climate Information System (AgACIS), including WETS, FROST, GROWTH, TAPS: BARSTOW-DAGGETT AIRPORT, CA STATION. Available at: <http://agacis.rcc-acis.org/>.
- National Resource Conservation Service (NRCS). 2021. Web Soil Survey. Available at: <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>
- Southern California Edison (SCE). 2017. Species Determination Flow Chart (version 2.0).
- U.S. Fish and Wildlife Service (USFWS). 2021. Critical Habitat Portal. Available at: <http://criticalhabitat.fws.gov/>.
- U.S. Forest Service (USFS). 2018. Ecological Subregions of the United States. Chapter 40. Section 322 American Semi-desert and Desert. Available at: <https://www.fs.fed.us/land/pubs/ecoregions/toc.html>.
- Walter-Feller. 2020. Digital-Desert: Mojave Desert. Available at: <http://digital-desert.com/ecosections/322am.htm>

Appendix A

Figures

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- Figure 1 Project Overview
- Figure 2 Project Vicinity
- Figure 3 Special-status Plant Observations

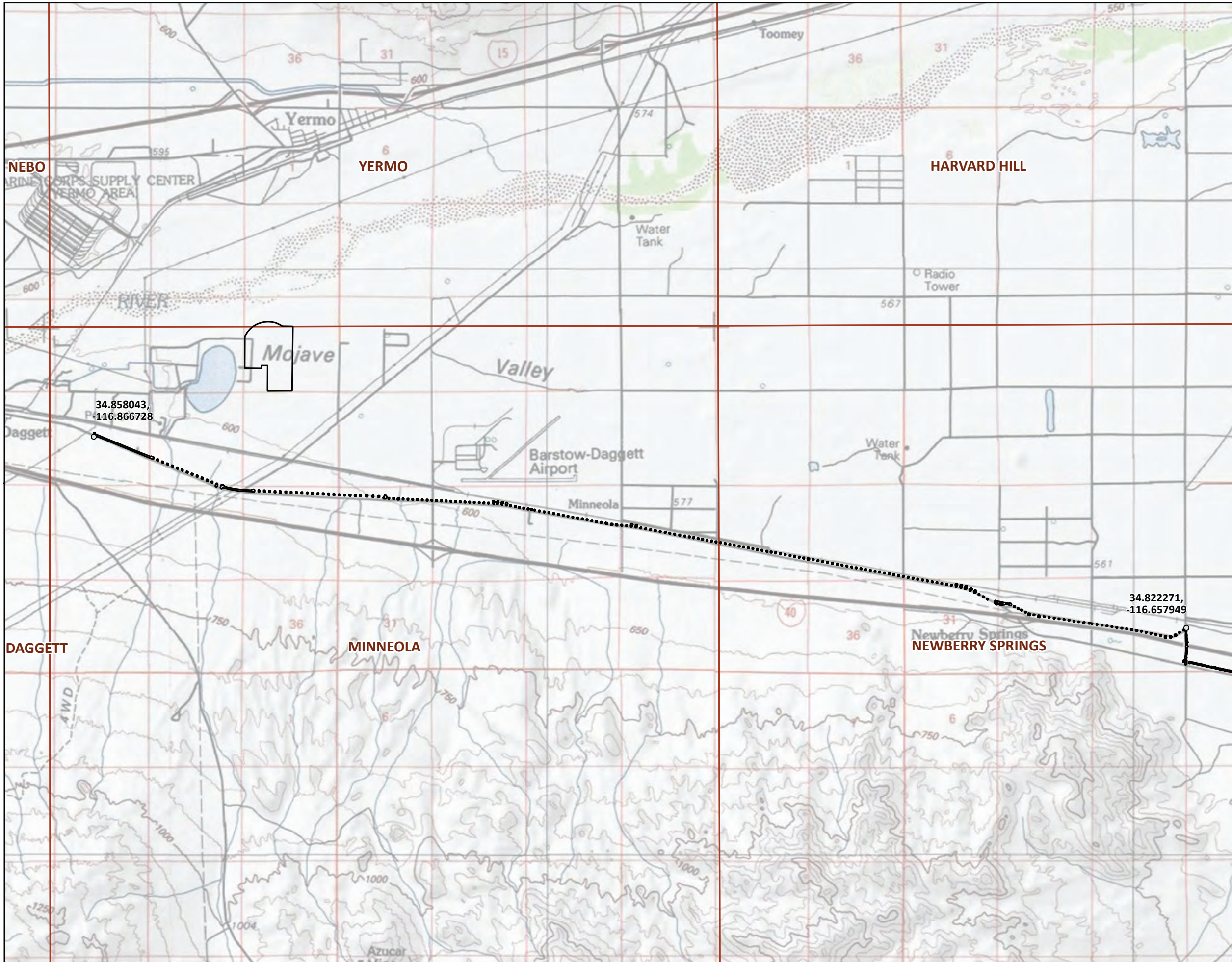


Figure 1

Project Overview

LUGO-VICTORVILLE 500-KV TRANSMISSION LINE
 REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT







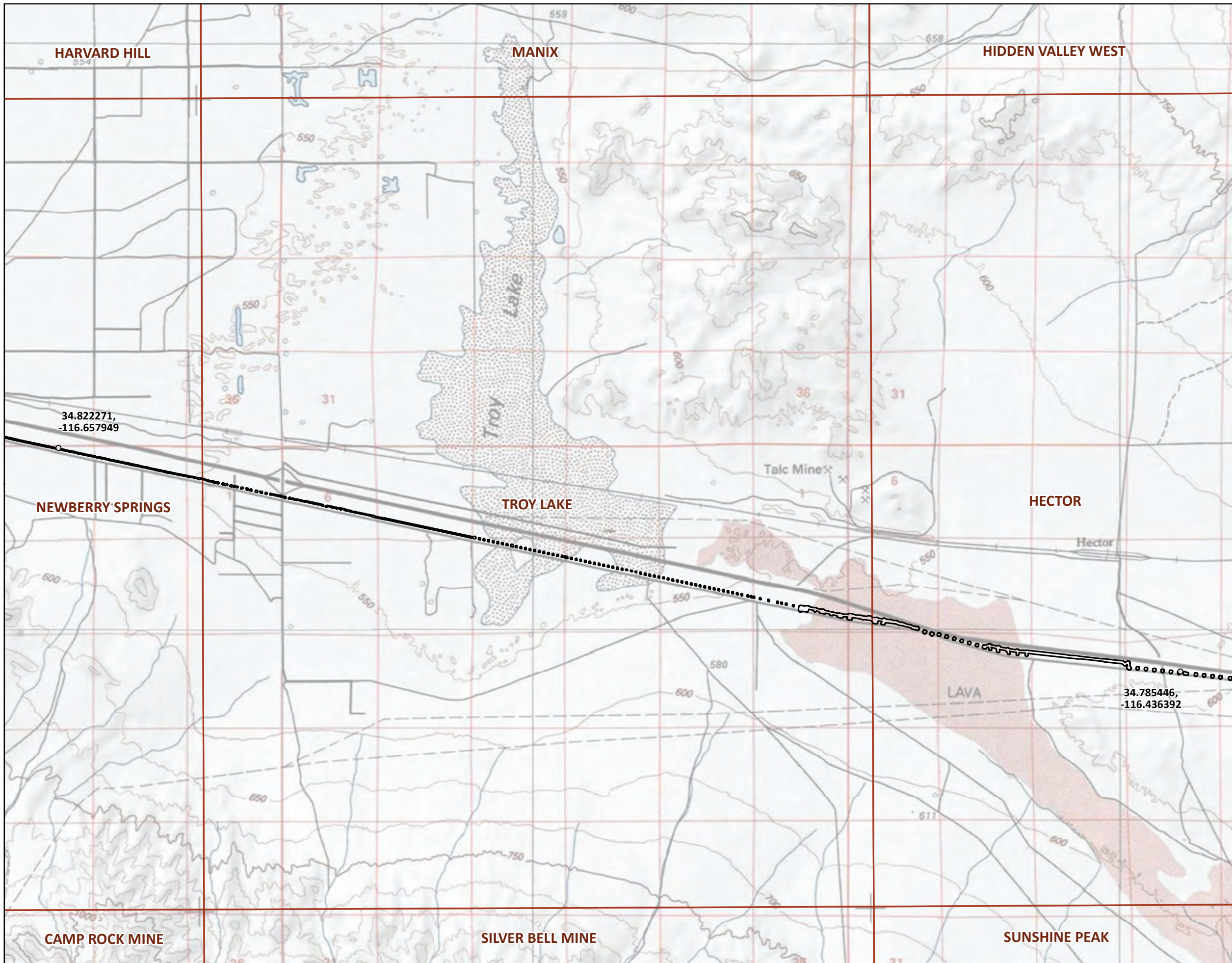
-  USGS 7.5' Quadrangles
-  Survey Area



Figure 2, Page 1 of 8
Project Vicinity

LUGO-VICTORVILLE 500-KV
 TRANSMISSION LINE REMEDIAL
 ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT
 SURVEY REPORT







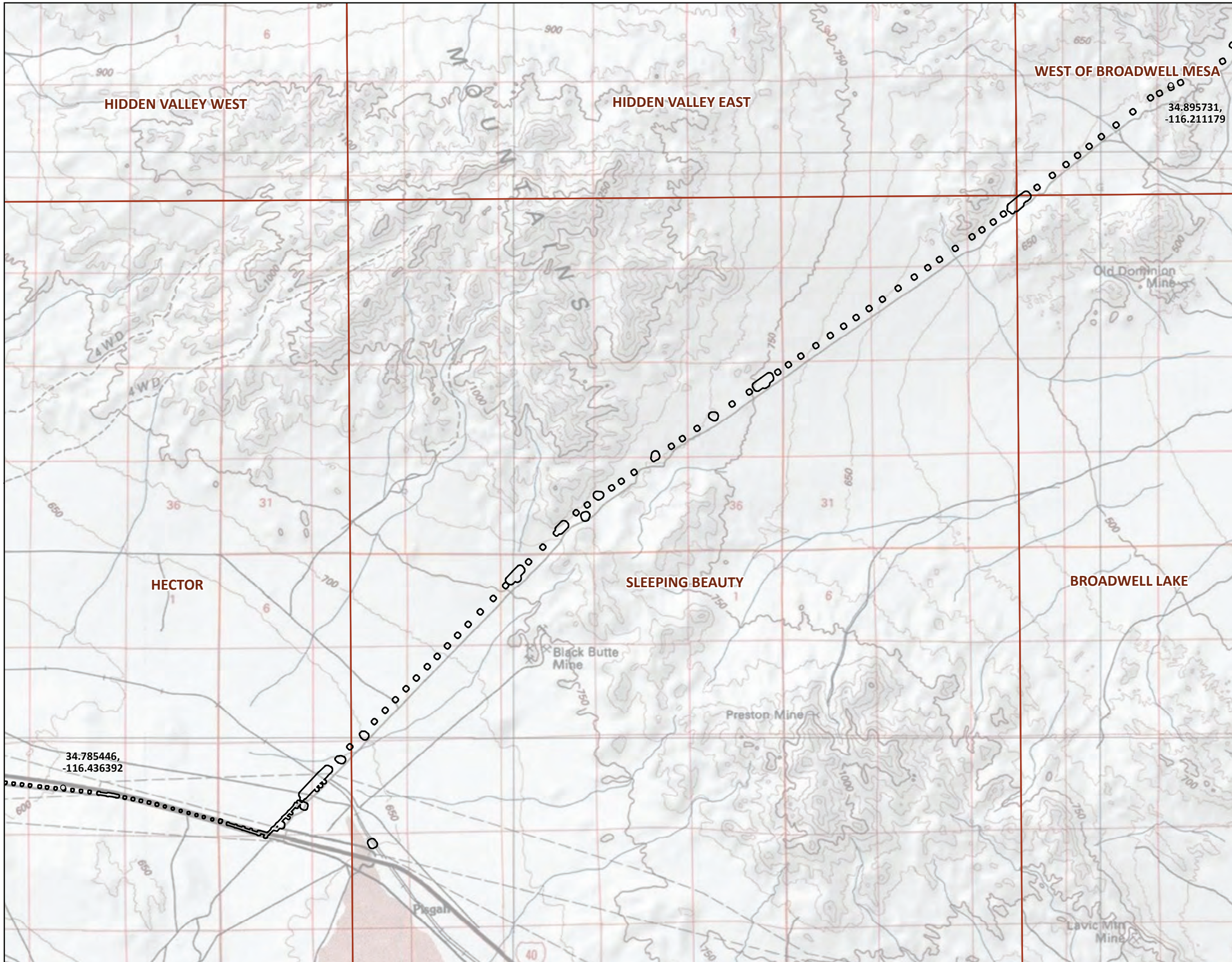
-  USGS 7.5' Quadrangles
-  Survey Area



Figure 2, Page 2 of 8
Project Vicinity

LUGO-VICTORVILLE 500-KV
 TRANSMISSION LINE REMEDIAL
 ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT
 SURVEY REPORT







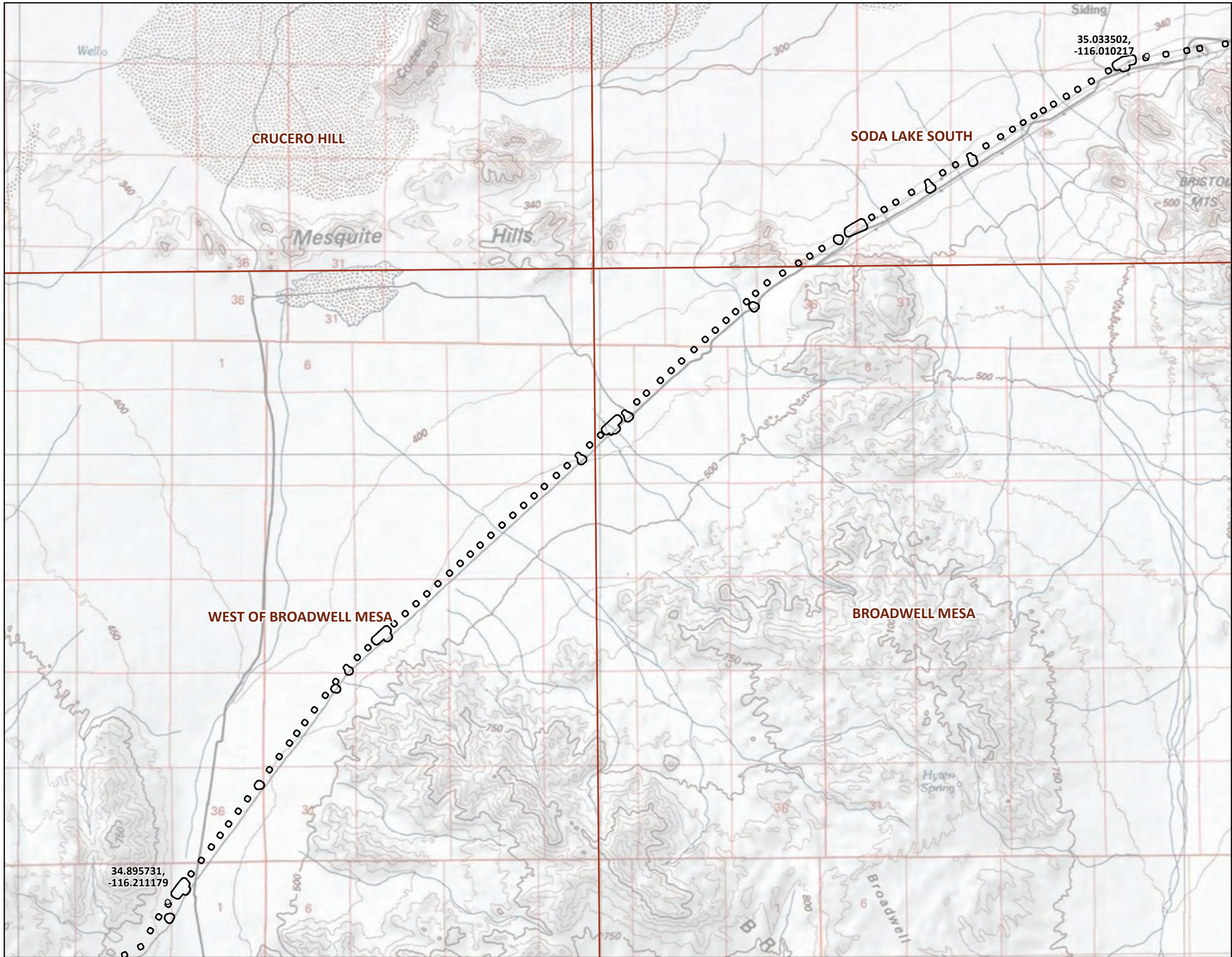
-  USGS 7.5' Quadrangles
-  Survey Area



Figure 2, Page 3 of 8
Project Vicinity

LUGO-VICTORVILLE 500-KV
 TRANSMISSION LINE REMEDIAL
 ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT
 SURVEY REPORT







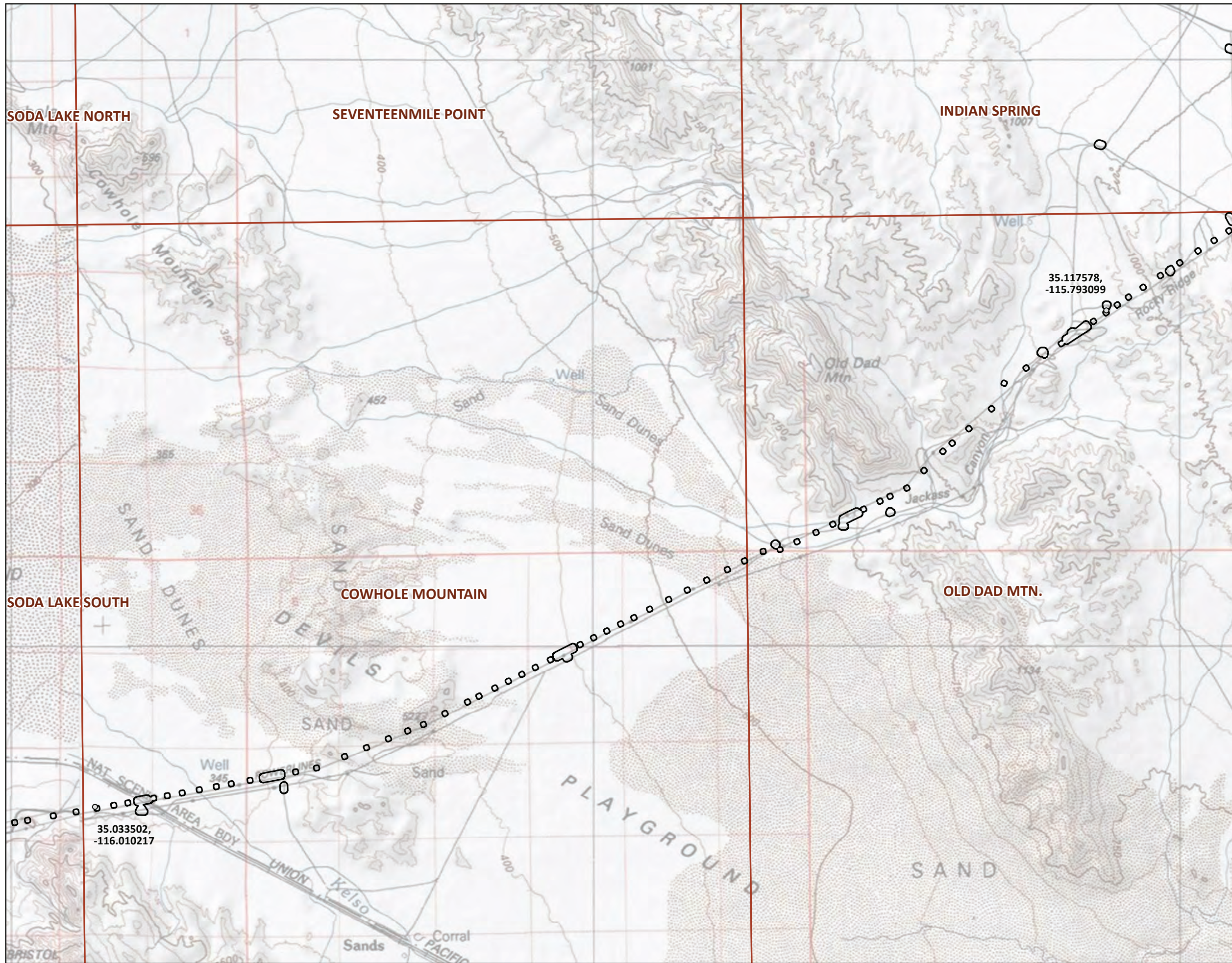
-  USGS 7.5' Quadrangles
-  Survey Area



Figure 2, Page 4 of 8
Project Vicinity

LUGO-VICTORVILLE 500-KV
 TRANSMISSION LINE REMEDIAL
 ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT
 SURVEY REPORT







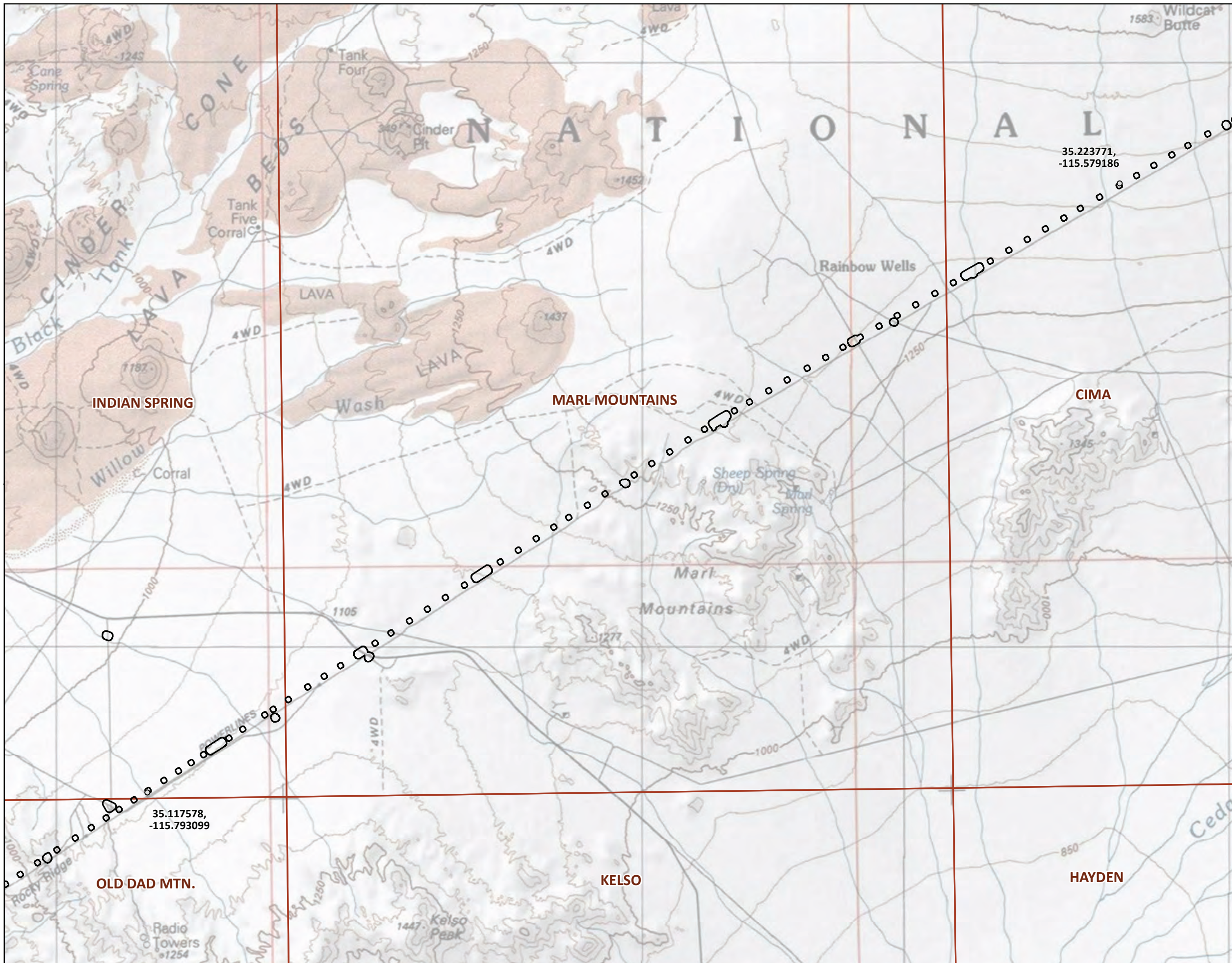
-  USGS 7.5' Quadrangles
-  Survey Area



Figure 2, Page 5 of 8
Project Vicinity

LUGO-VICTORVILLE 500-KV
 TRANSMISSION LINE REMEDIAL
 ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT
 SURVEY REPORT





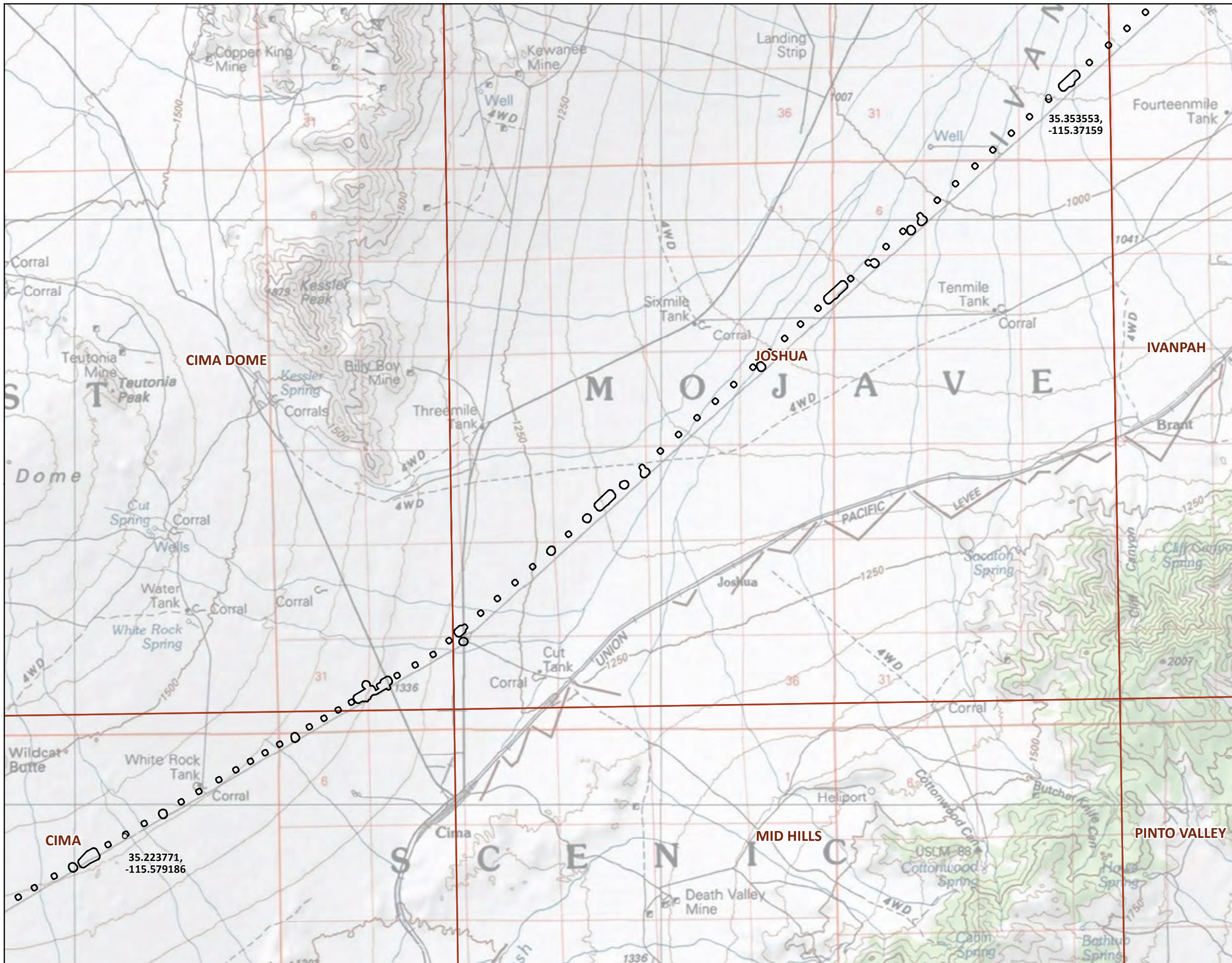
- USGS 7.5' Quadrangles
- Survey Area



Figure 2, Page 6 of 8
Project Vicinity

LUGO-VICTORVILLE 500-KV
 TRANSMISSION LINE REMEDIAL
 ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT
 SURVEY REPORT







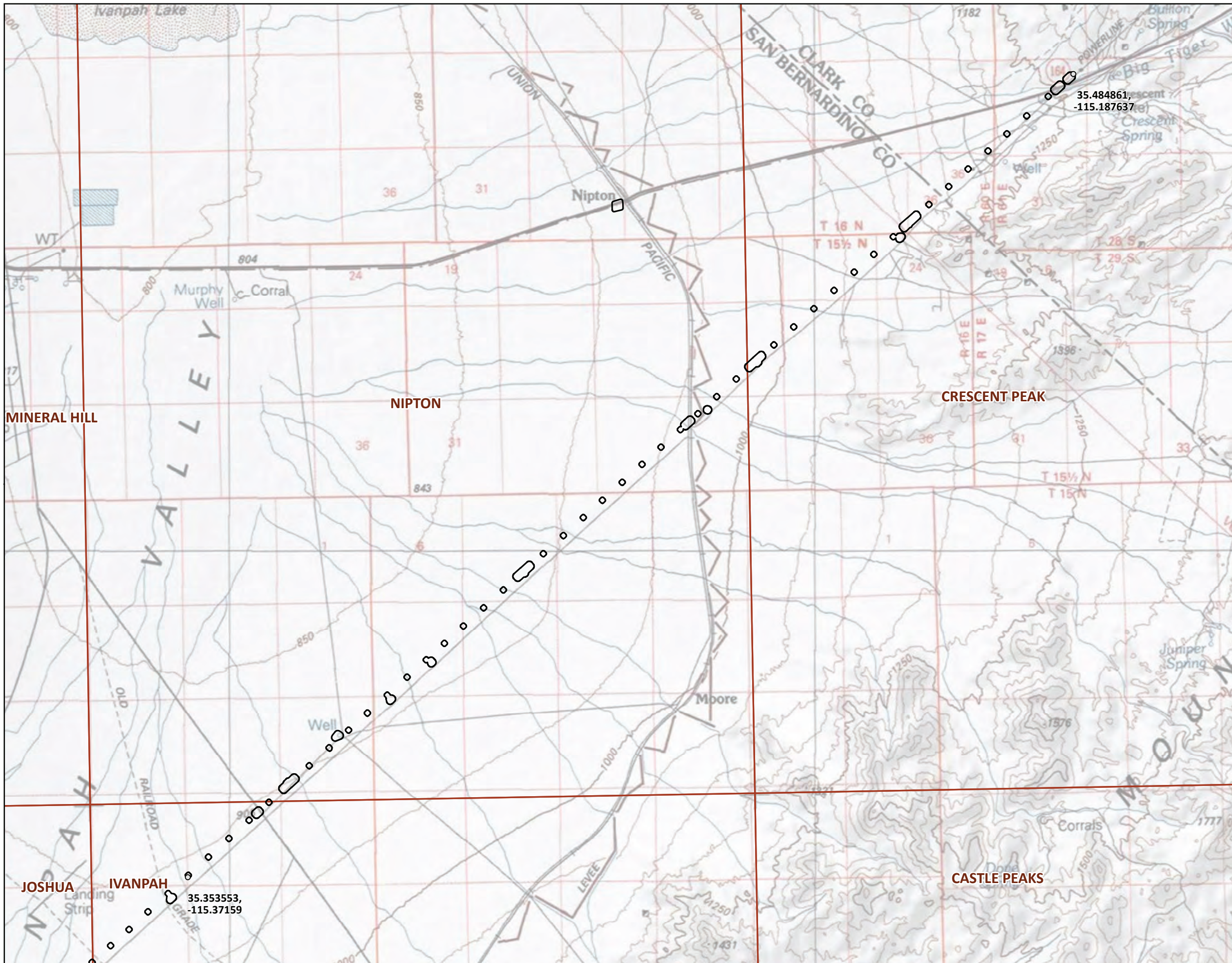
-  USGS 7.5' Quadrangles
-  Survey Area



Figure 2, Page 7 of 8
Project Vicinity

LUGO-VICTORVILLE 500-KV
 TRANSMISSION LINE REMEDIAL
 ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT
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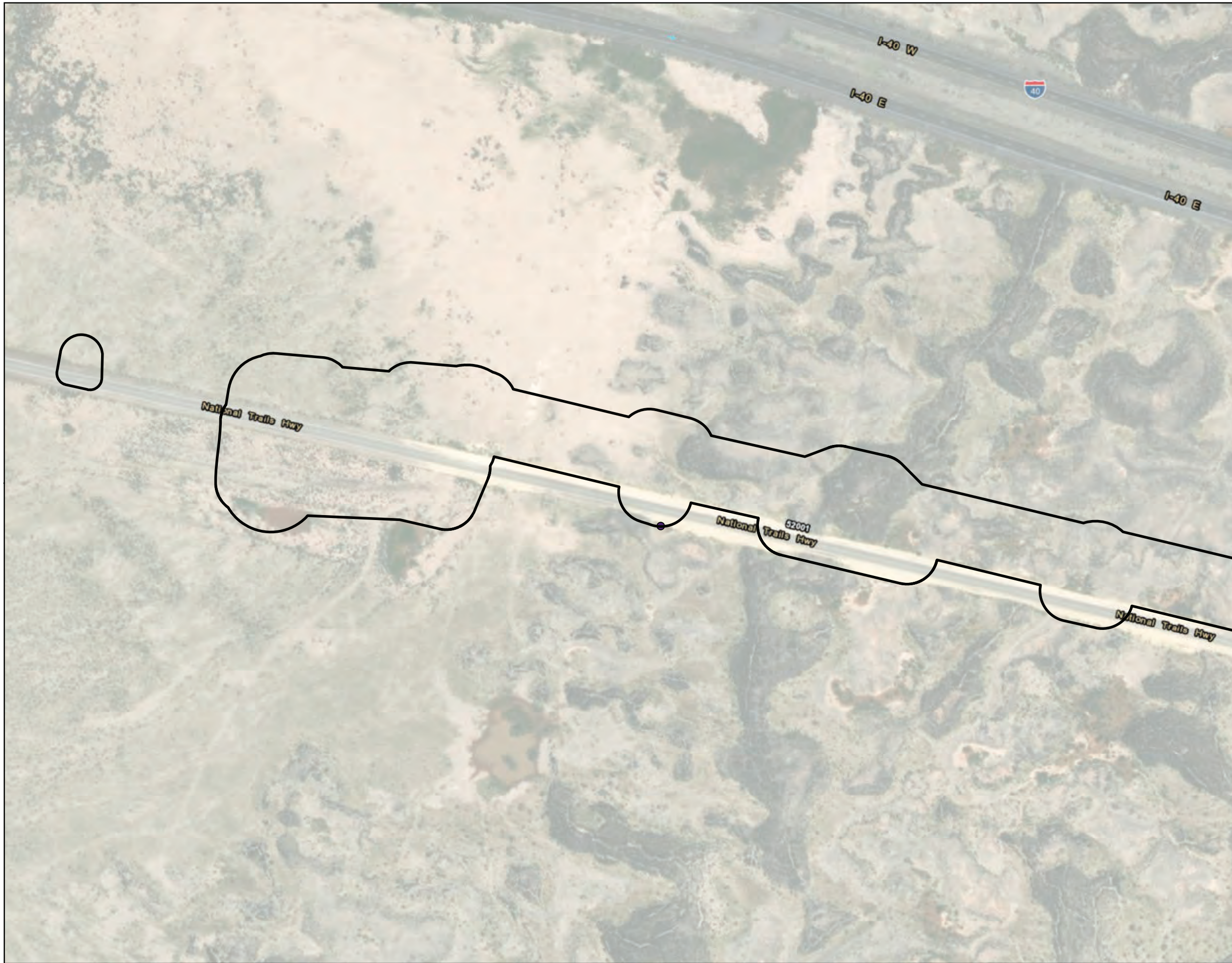
-  USGS 7.5' Quadrangles
-  Survey Area



Figure 2, Page 8 of 8
Project Vicinity

LUGO-VICTORVILLE 500-KV
 TRANSMISSION LINE REMEDIAL
 ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT
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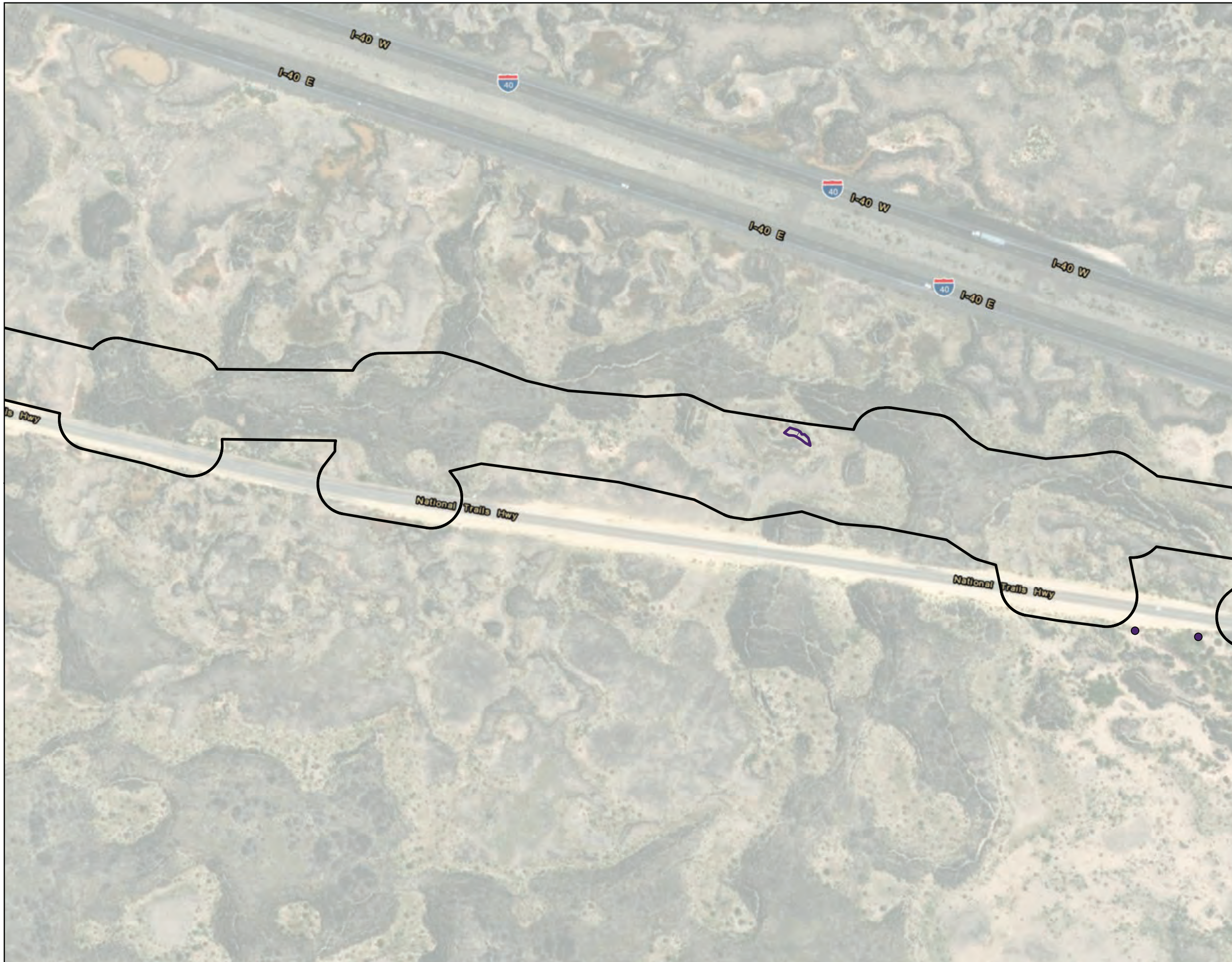
-  Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 2B
-  Abrams' spurge



Figure 3, Page 1 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT



-  Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 2B
-  Abrams' spurge
- California Rare Plant Rank 2B
-  Abrams' spurge



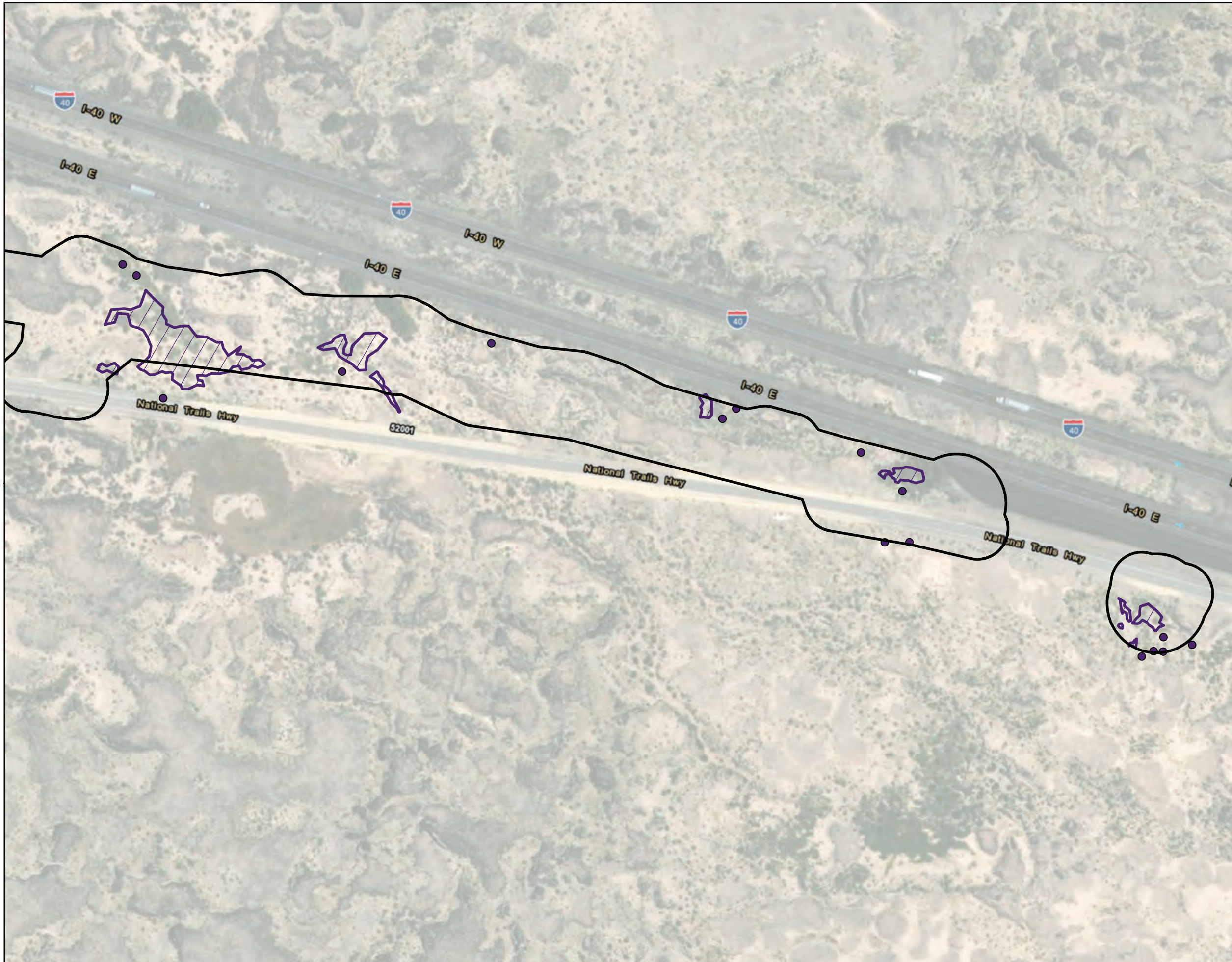
Figure 3, Page 2 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT

N

0 200 Feet





-  Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 2B
-  Abrams' spurge
- California Rare Plant Rank 2B
-  Abrams' spurge



Figure 3, Page 3 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT



- Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 2B
- Abrams' spurge
- California Rare Plant Rank 2B
- ◌ Abrams' spurge



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Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT



-  Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 2B
-  Abrams' spurge
- California Rare Plant Rank 2B
-  Abrams' spurge



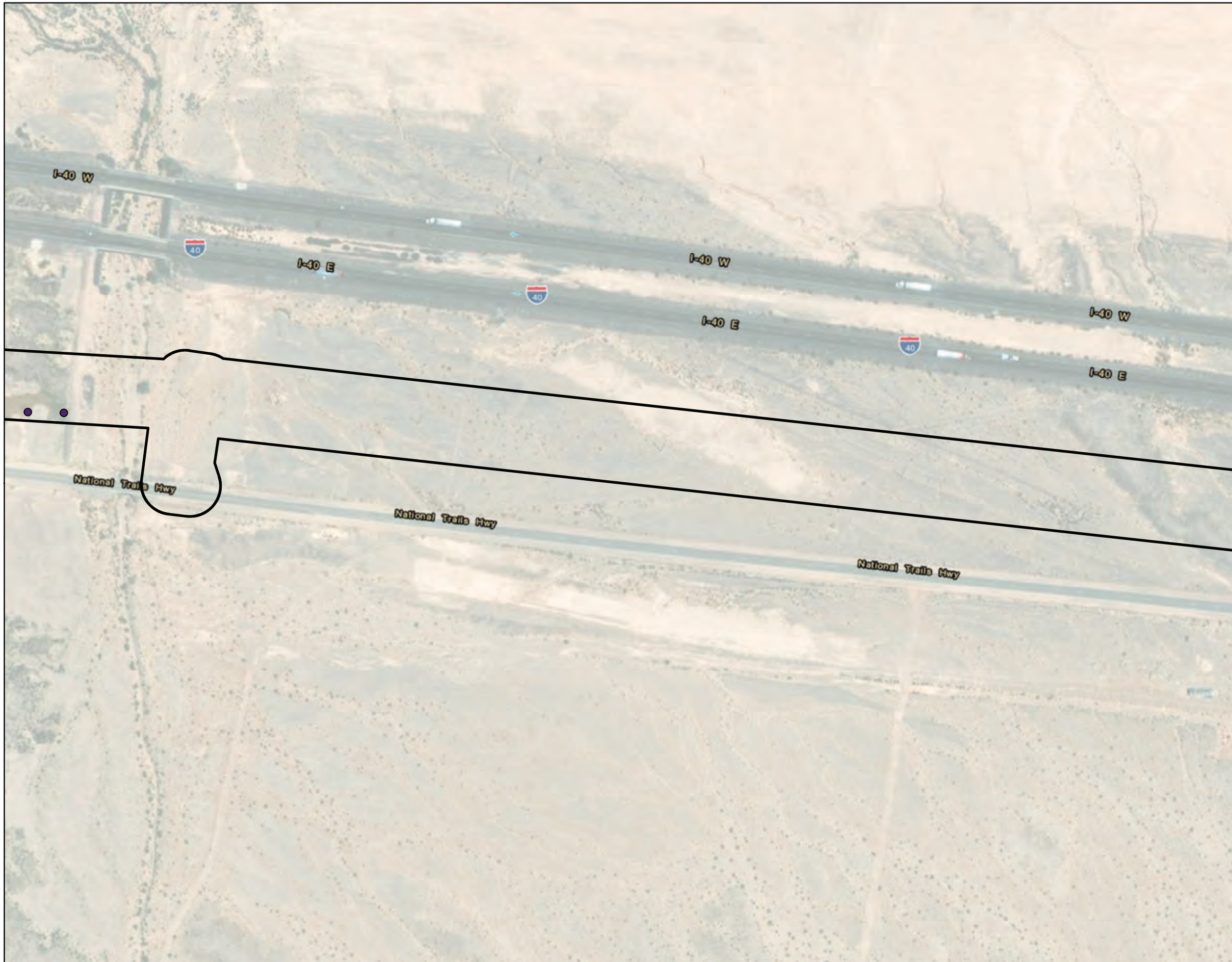
Figure 3, Page 5 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT

N

0 200 Feet





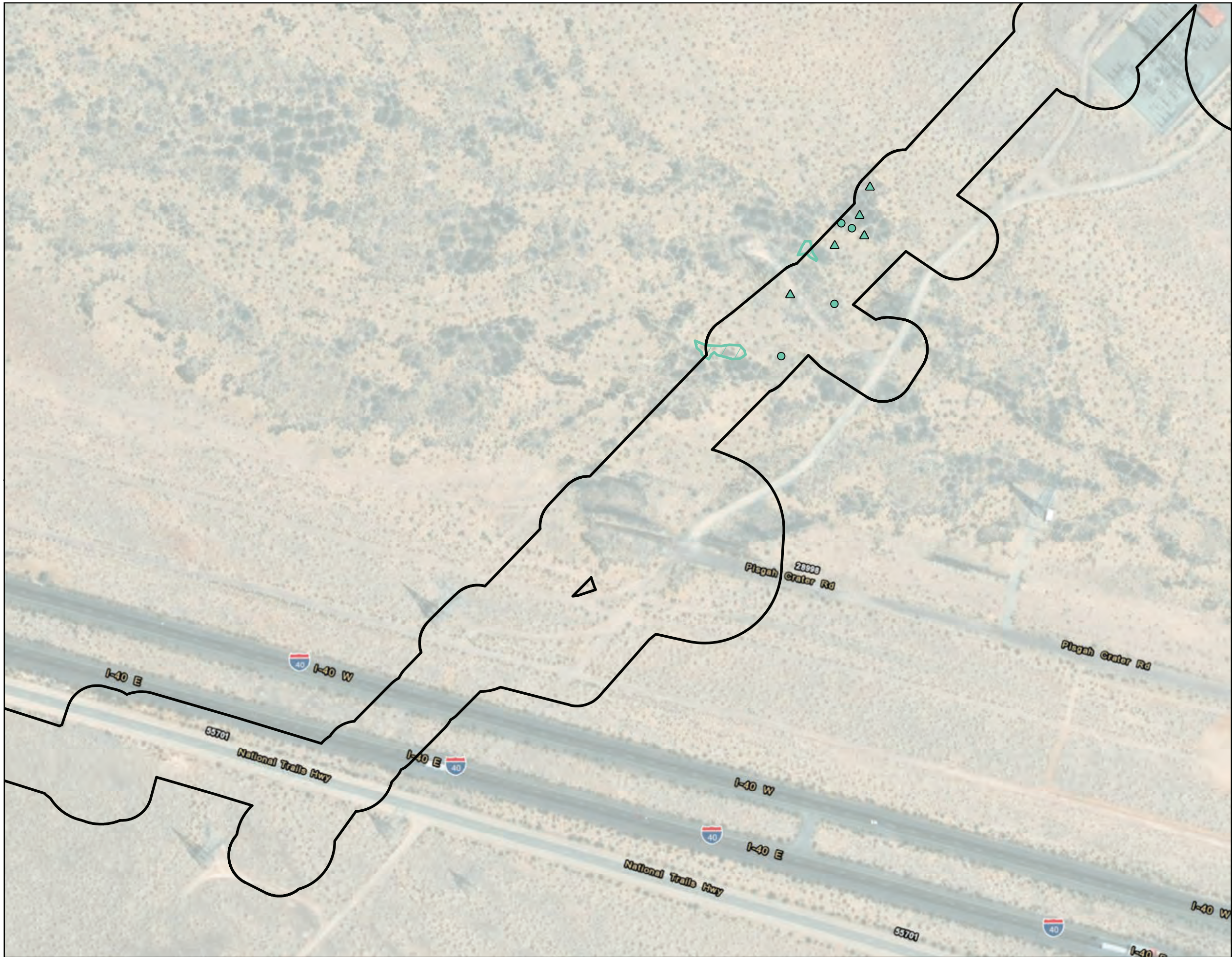
- Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 2B
- Abrams' spurge



Figure 3, Page 6 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT





- Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Pant Rank 4
- ▲ Utah vine milkweed
- Fall 2021 Survey Results
- California Rare Pant Rank 4
- Revolute spurge
- California Rare Pant Rank 4
- Utah vine milkweed



Figure 3, Page 7 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT

N

0 200 Feet

Artemis Environmental Services, Inc.



- Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 4
- Revolute spurge



Figure 3, Page 8 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT





- Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 4
- Revolute spurge
- California Rare Plant Rank 1B
- ◆ *Penstemon albomarginatus* (remains)



Figure 3, Page 9 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT

N

0 200 Feet

Artemis Environmental Services, Inc.





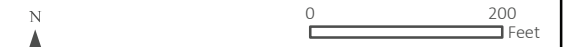
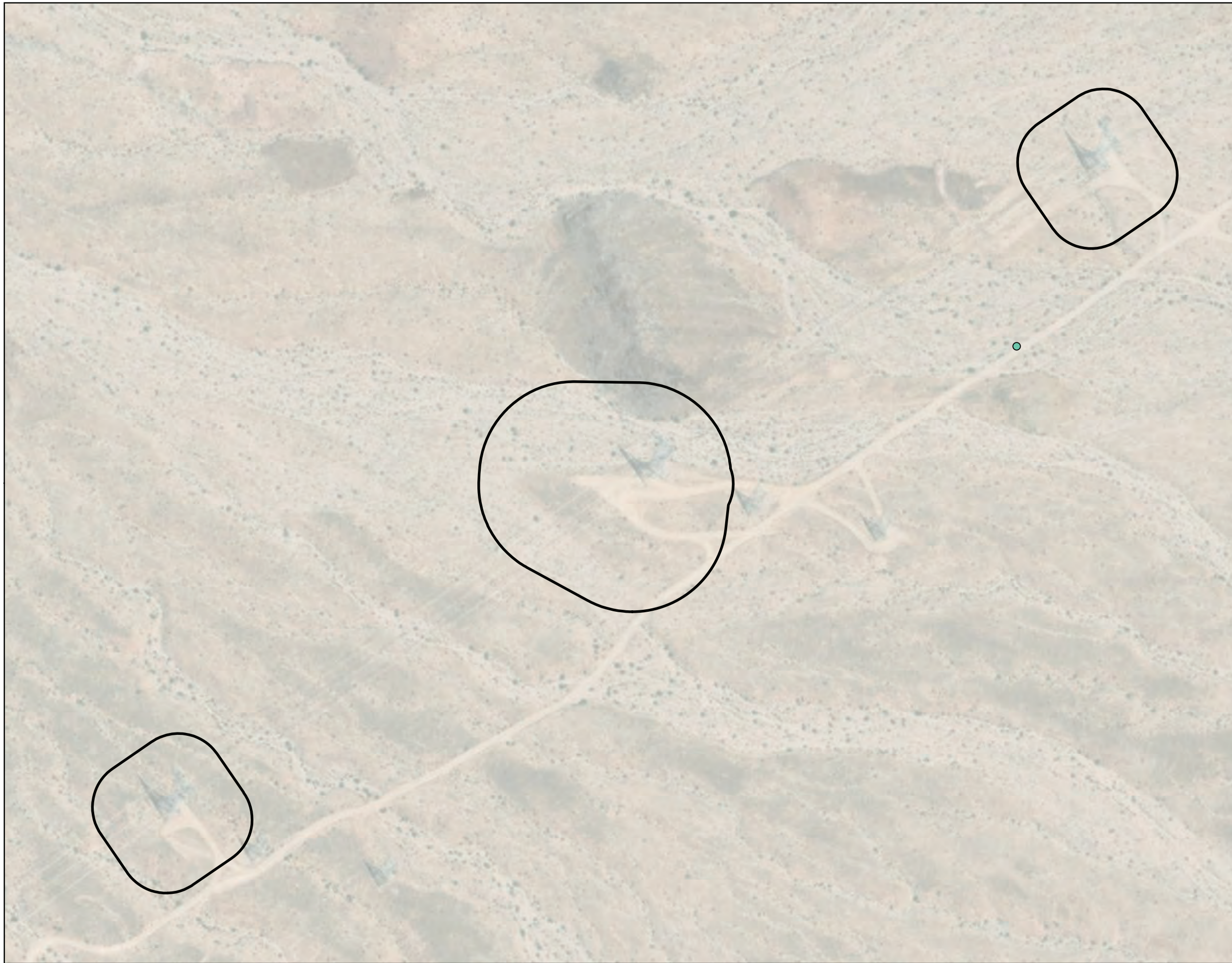
-  Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 4
-  Utah vine milkweed



Figure 3, Page 10 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT





- Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 4
- Revolute spurge



Figure 3, Page 11 of 83
Special-status Plant
Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
LINE REMEDIAL ACTION SCHEME PROJECT
2021 SPECIAL-STATUS PLANT SURVEY REPORT



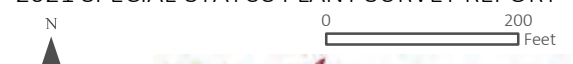


- Fall 2021 Survey Area
- Fall 2021 Survey Results
- California Rare Plant Rank 2B
- Emory's crucifixion-thorn



Figure 3, Page 12 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT







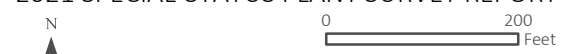
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- Spring 2021 Survey Results
- California Rare Pant Rank 1B
-  *Eriastrum harwoodii* (remains)
- Fall 2021 Survey Results
- California Rare Pant Rank 1B
-  *Eriastrum harwoodii* (remains)
- California Rare Pant Rank 1B
-  *Eriastrum harwoodii* (remains)



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Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT





 Spring 2021 Survey Area

 Fall 2021 Survey Area

Spring 2021 Survey Results

California Rare Plant Rank 1B


 *Eriastrum harwoodii* (remains)



Figure 3, Page 14 of 83
Special-status Plant
Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
LINE REMEDIAL ACTION SCHEME PROJECT
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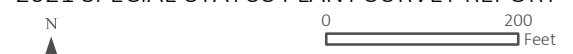
-  Spring 2021 Survey Area
-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 2B
-  Purple-nerve cymopterus



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Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT








-  Spring 2021 Survey Area
-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 1B
-  Rusby's desert-mallow



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Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT





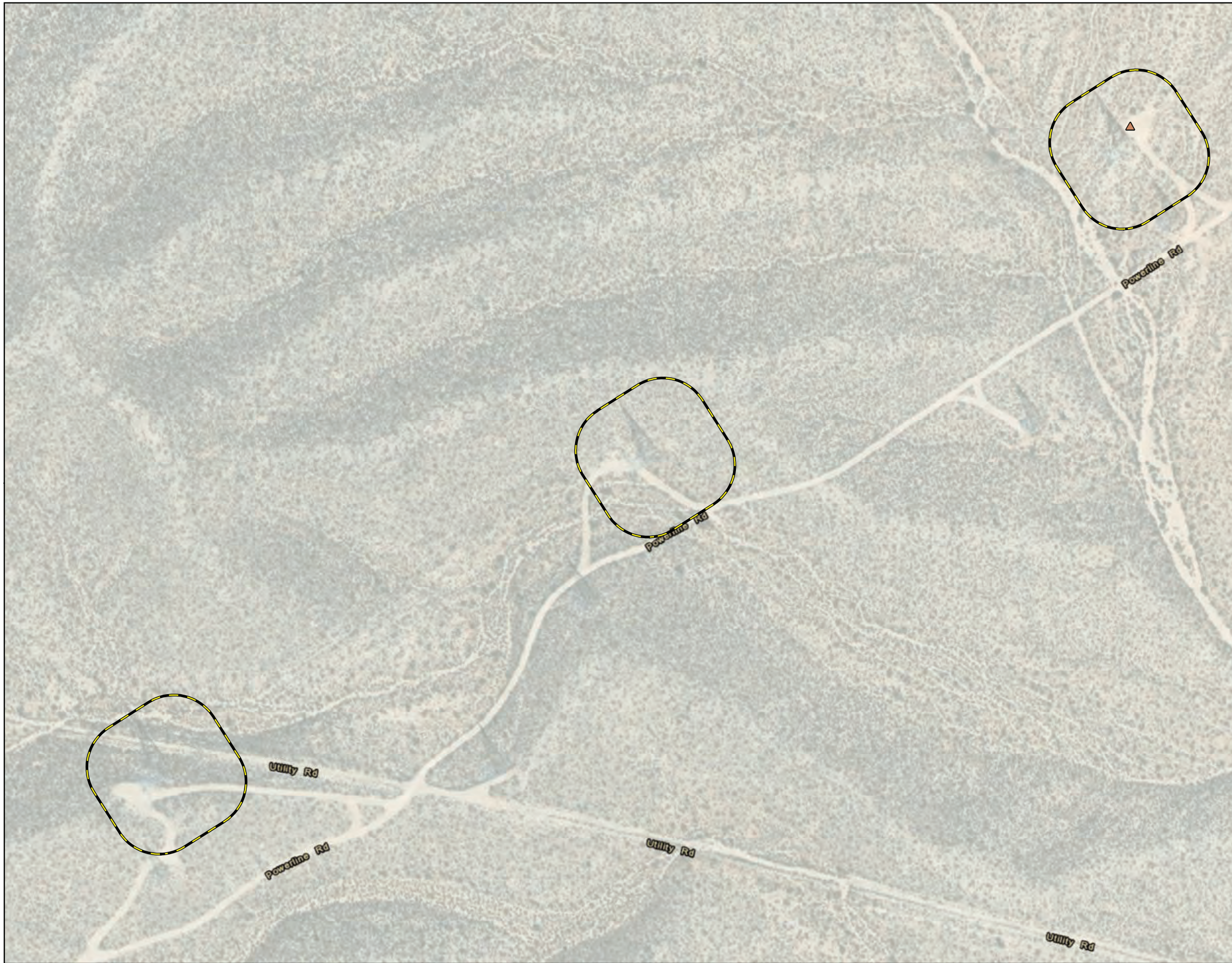
-  Spring 2021 Survey Area
-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 1B
-  Rusby's desert-mallow
- Fall 2021 Survey Results
- California Rare Plant Rank 1B
-  Rusby's desert-mallow



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Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT








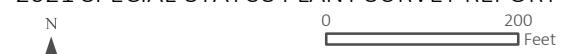
-  Spring 2021 Survey Area
-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 1B
-  Rusby's desert-mallow



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Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT








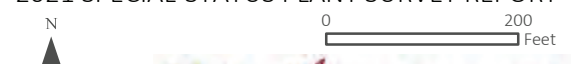
-  Spring 2021 Survey Area
-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 1B
-  Rusby's desert-mallow



Figure 3, Page 19 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT








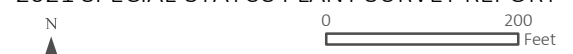
-  Spring 2021 Survey Area
-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 1B
-  Rusby's desert-mallow



Figure 3, Page 20 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT





- Spring 2021 Survey Area
- Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 1B
- Rusby's desert-mallow
- California Rare Plant Rank 1B
- Rusby's desert-mallow
- Fall 2021 Survey Results
- California Rare Plant Rank 1B
- Rusby's desert-mallow



Figure 3, Page 21 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT



-  Spring 2021 Survey Area
-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 1B
-  Rusby's desert-mallow
- California Rare Plant Rank 1B
-  Rusby's desert-mallow



Figure 3, Page 22 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT






-  Spring 2021 Survey Area
-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 1B
-  Rusby's desert-mallow



Figure 3, Page 23 of 83
Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
 LINE REMEDIAL ACTION SCHEME PROJECT
 2021 SPECIAL-STATUS PLANT SURVEY REPORT






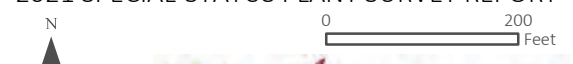
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-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 2B
-  Purple-nerve cymopterus



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Special-status Plant Observations

LUGO-VICTORVILLE 500-KV TRANSMISSION
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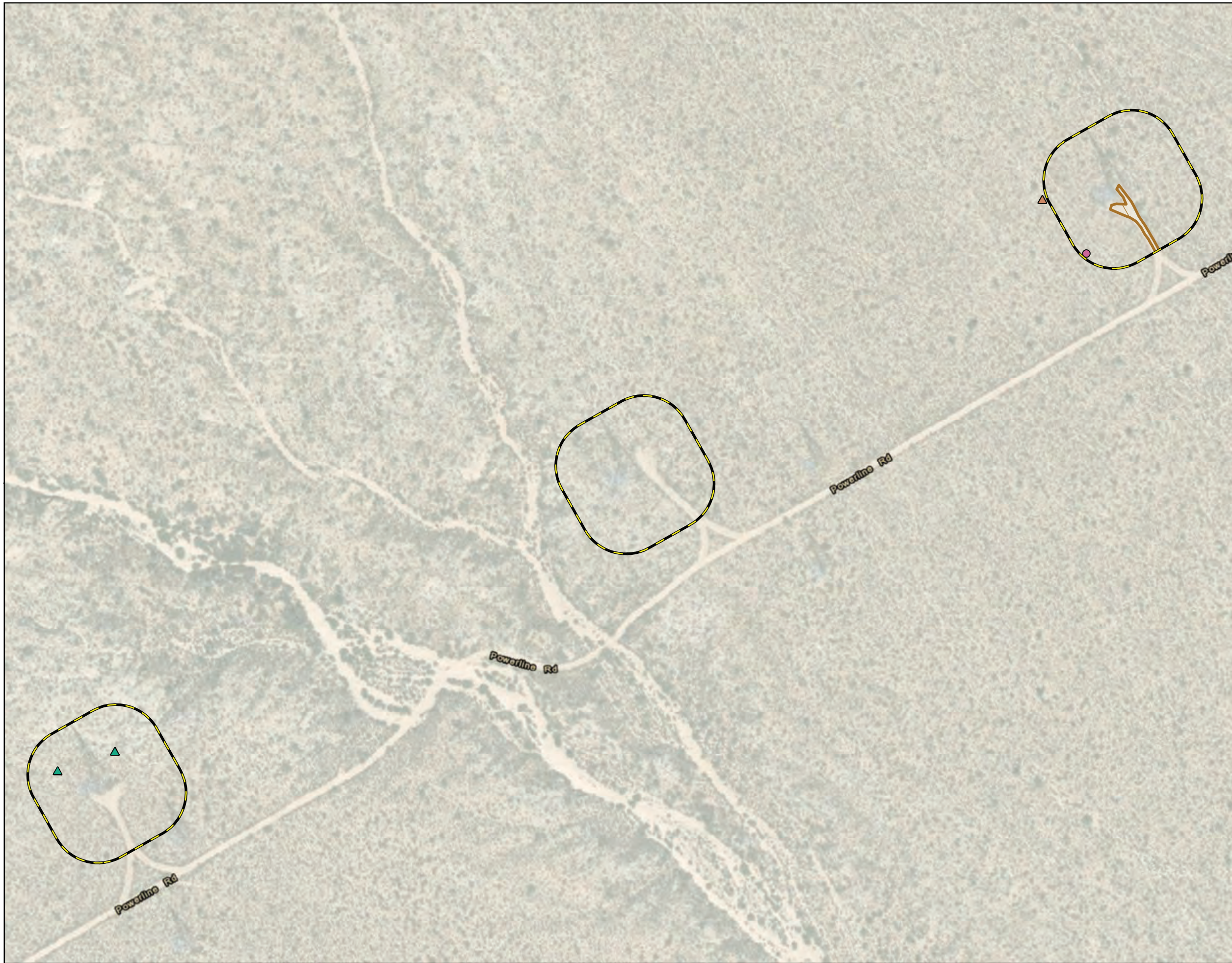
-  Spring 2021 Survey Area
-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 1B
-  Rusby's desert-mallow



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Special-status Plant Observations

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- Spring 2021 Survey Area
- Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Pant Rank 1B
- Rusby's desert-mallow
- California Rare Pant Rank 2B
- Purple-nerve cymopterus
- California Rare Pant Rank 1B
- Rusby's desert-mallow
- Fall 2021 Survey Results
- California Rare Pant Rank 2B
- Viviparous foxtail cactus



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Special-status Plant Observations

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-  Spring 2021 Survey Area
-  Fall 2021 Survey Area
- Spring 2021 Survey Results
- California Rare Plant Rank 1B
-  Rusby's desert-mallow
- California Rare Plant Rank 1B
-  Rusby's desert-mallow
- Fall 2021 Survey Results
- California Rare Plant Rank 2B
-  Viviparous foxtail cactus



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Special-status Plant Observations

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