Appendix B.

Watershed Project Maps

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Figure B-1
Vicinity Map

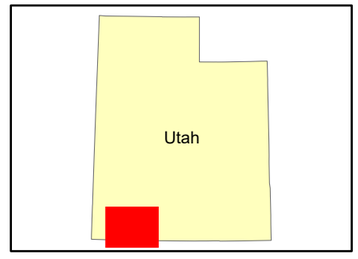
Cove - East Fork Virgin River Watershed Plan - EIS Project

Legend

- Watershed Area (97,449 acres)
- Headwaters East Fork Virgin River (33,414 acres)
- Lydias Canyon-East Fork Virgin River (40,747 acres)
- Muddy Creek (23,287 acres)
- Quail Creek Reservoir Diversion
- Pah Tempe Springs
- Virgin River
- US Highways and Interstates
- Municipal Boundary

Land Ownership

- BLM
- Forest Service
- Private
- Zion National Park



N

0 10 Miles

Eocene Environmental Group

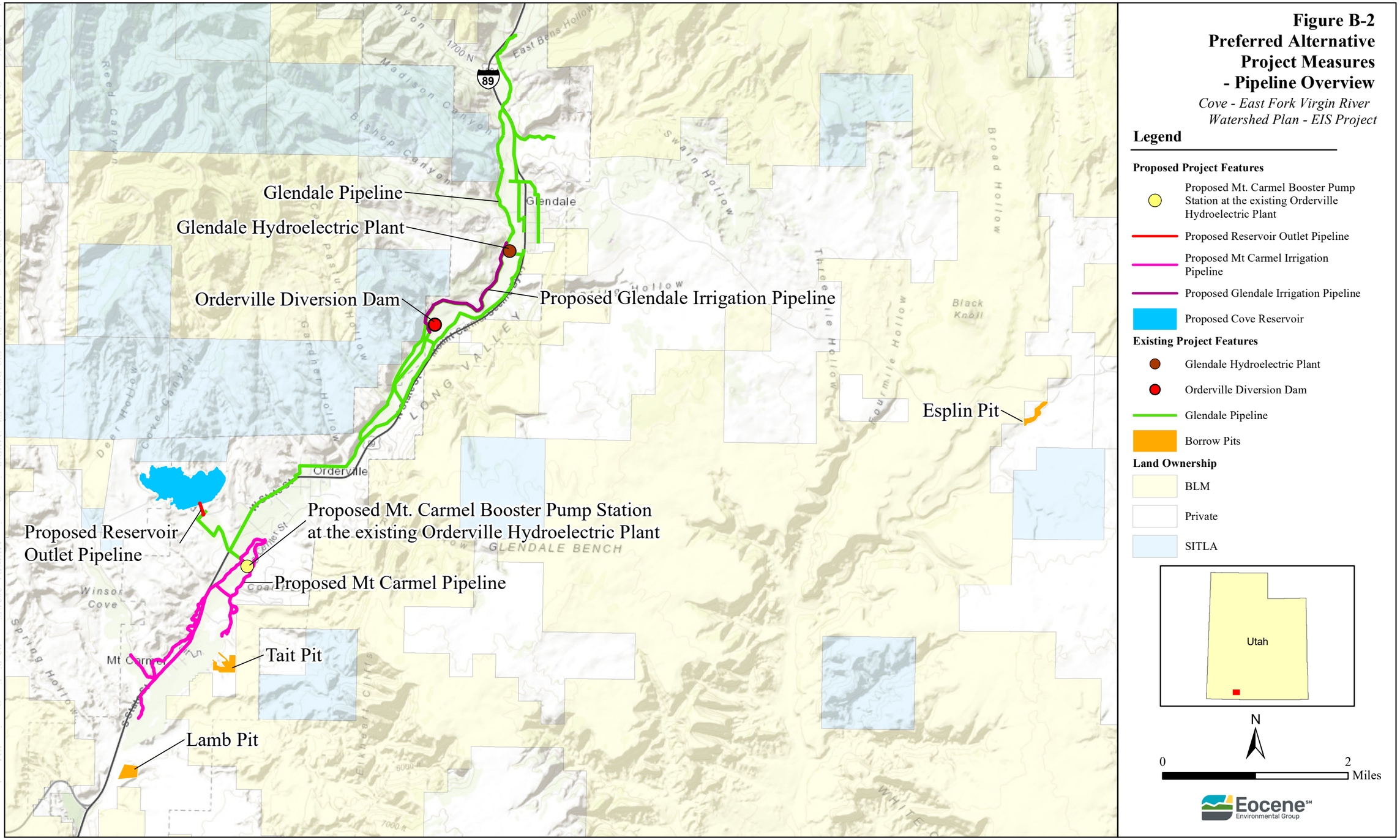


Figure B-2
Preferred Alternative Project Measures - Pipeline Overview

Cove - East Fork Virgin River Watershed Plan - EIS Project

Legend

Proposed Project Features

- Proposed Mt. Carmel Booster Pump Station at the existing Orderville Hydroelectric Plant
- Proposed Reservoir Outlet Pipeline
- Proposed Mt Carmel Irrigation Pipeline
- Proposed Glendale Irrigation Pipeline
- Proposed Cove Reservoir

Existing Project Features

- Glendale Hydroelectric Plant
- Orderville Diversion Dam
- Glendale Pipeline
- Borrow Pits

Land Ownership

- BLM
- Private
- SITLA

June 1, 2026 G:\Projects\Alpha\Cove_Plan_EA_D38_02_Cove_EFVR_Plan_EIS_DS\Map_Files\MXD\Project_Overview_MXD\BA_2024\Figure_B2_Pipeline_Overview_KM.mxd

May 29, 2026
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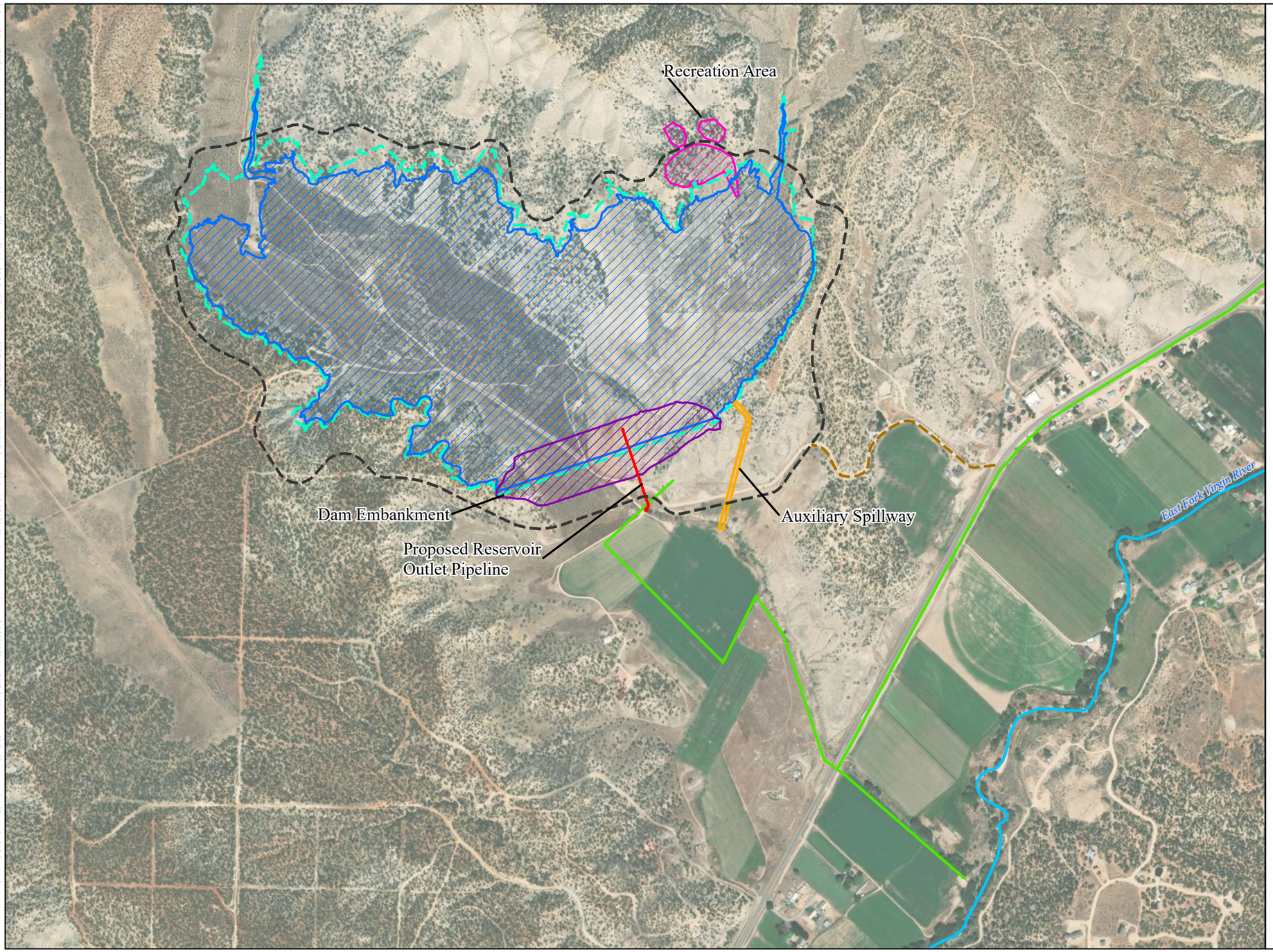
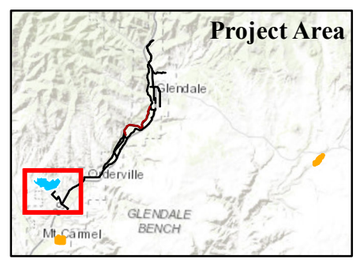


Figure B-3
Preferred Alternative
Project Measures
- Reservoir Detail

Cove - East Fork Virgin River
Watershed Plan - EIS Project

Legend

- Proposed Access Road
- Existing Road To Be Widened
- Proposed Reservoir Outlet Pipeline
- Auxiliary Spillway
- Existing Glendale Irrigation Pipeline
- East Fork Virgin River
- Dam Embankment
- High Water - Principal Spillway
- High Water - Auxiliary
- Recreation Area



N

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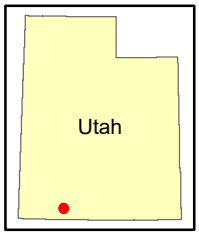
Eocene Environmental Group





N

0 50 100
Feet

Legend

- Access Rd
- Cove Reservoir
- Pavement
- Pavilion
- Primitive Camping (overnight)
- RV Camping (overnight)
- Restrooms

Figure B-4
Preferred Alternative
Project Measures
- Recreation Detail

Cove - East Fork Virgin River Watershed Plan - EIS Project

Eocene℠ Environmental Group

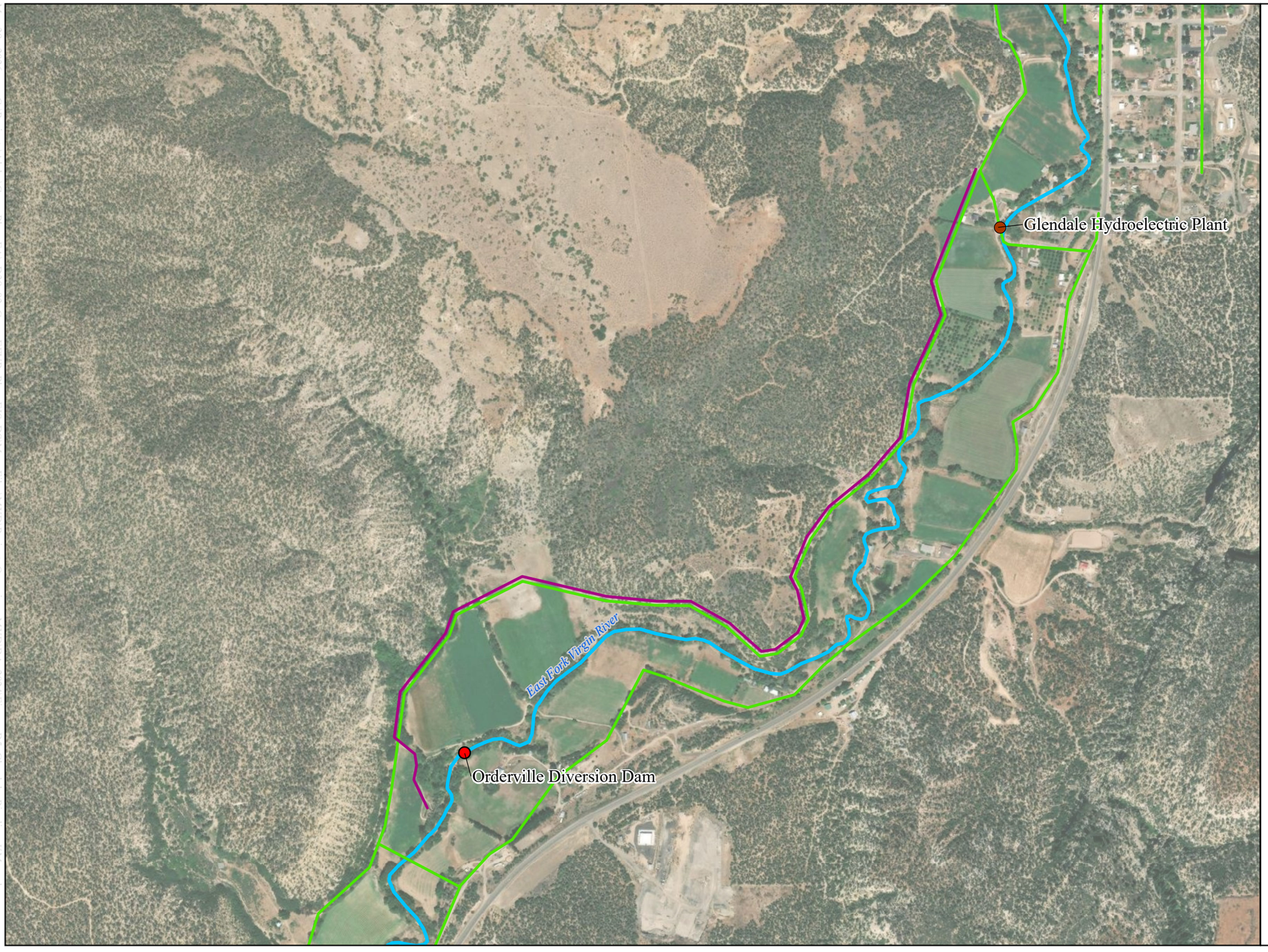
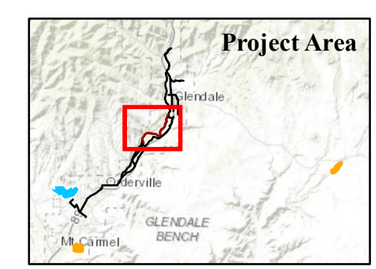


Figure B-5
Preferred Alternative Project Measures - Glendale Pipeline Detail

Cove - East Fork Virgin River Watershed Plan - EIS Project

Legend

- Orderville Diversion Dam
- Glendale Hydroelectric Plant
- Proposed Glendale Irrigation Pipeline
- Existing Glendale Irrigation Pipeline
- East Fork Virgin River



N

0 0.3 Miles

Eocene Environmental Group

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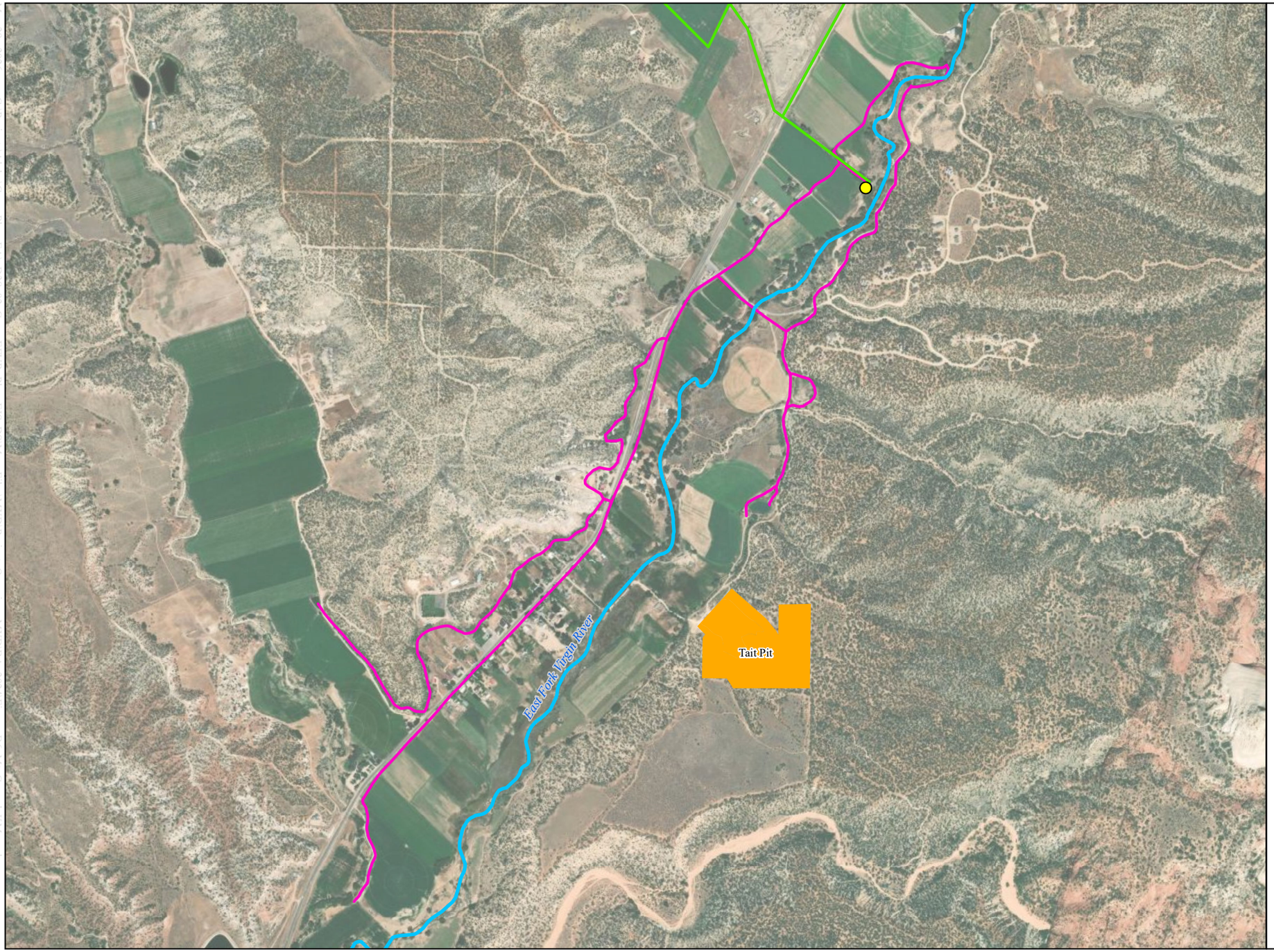
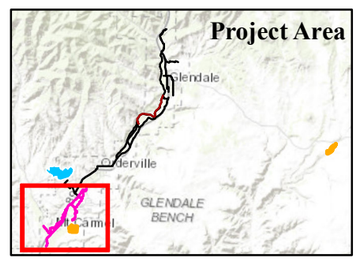


Figure B-6
Preferred Alternative Project Measures - Mt. Carmel Pipeline Detail

Cove - East Fork Virgin River Watershed Plan - EIS Project

Legend

- Proposed Mt Carmel Booster Pump Station at the existing Orderville Hydroelectric Plant
- Existing Glendale Irrigation Pipeline
- Proposed Mt Carmel Irrigation Pipeline
- Borrow Pits
- East Fork Virgin River



N

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Eocene Environmental Group

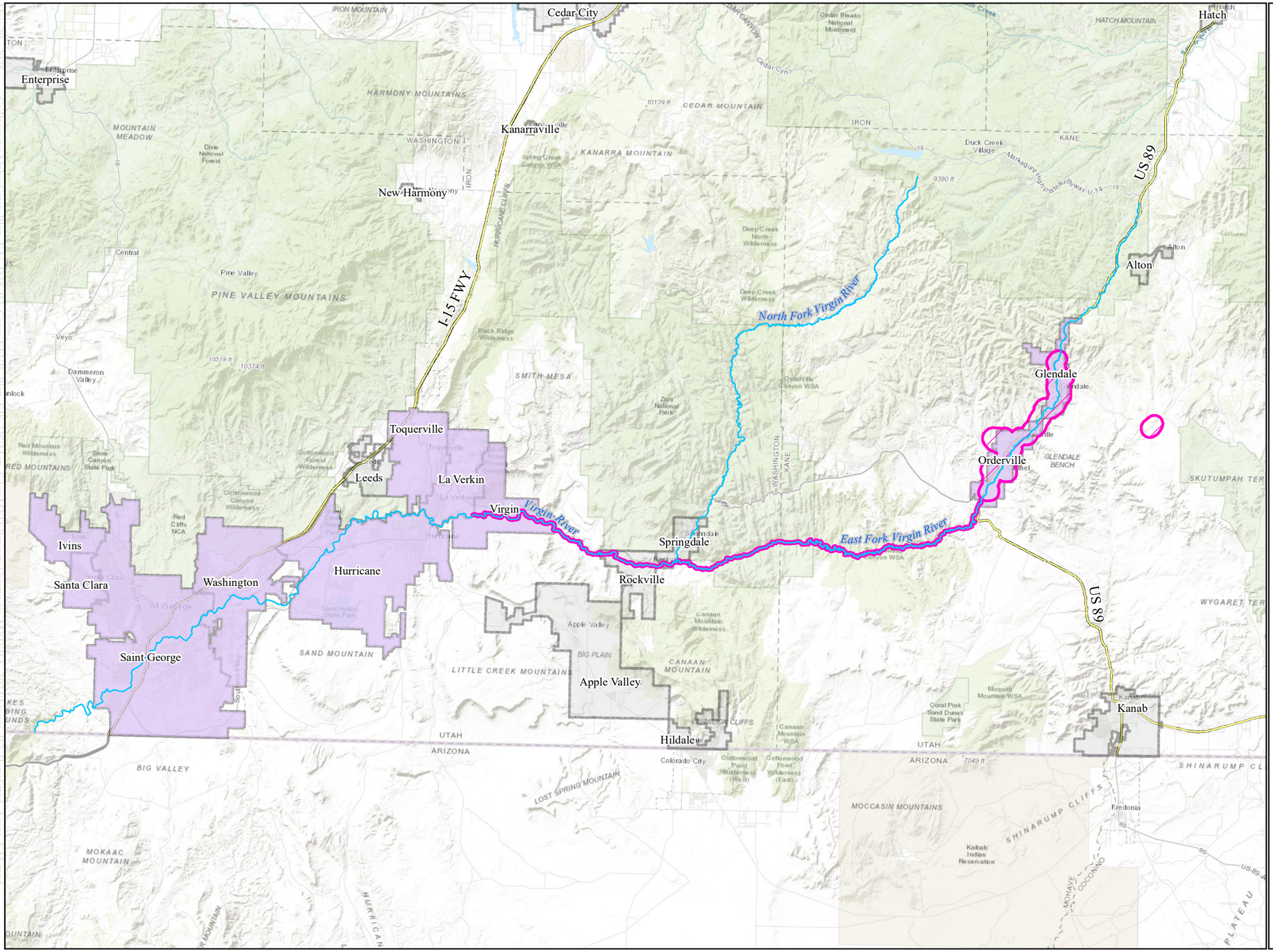

Figure B-7
Preferred Alternative
Benefitted Areas

Cove - East Fork Virgin River
Watershed Plan - EIS Project

Legend

- Virgin River
- US Highways and Interstates
- Study Area (13,973.08 Acres)
- Benefitted Areas (153,389.97 Acres)
- Municipal Boundary

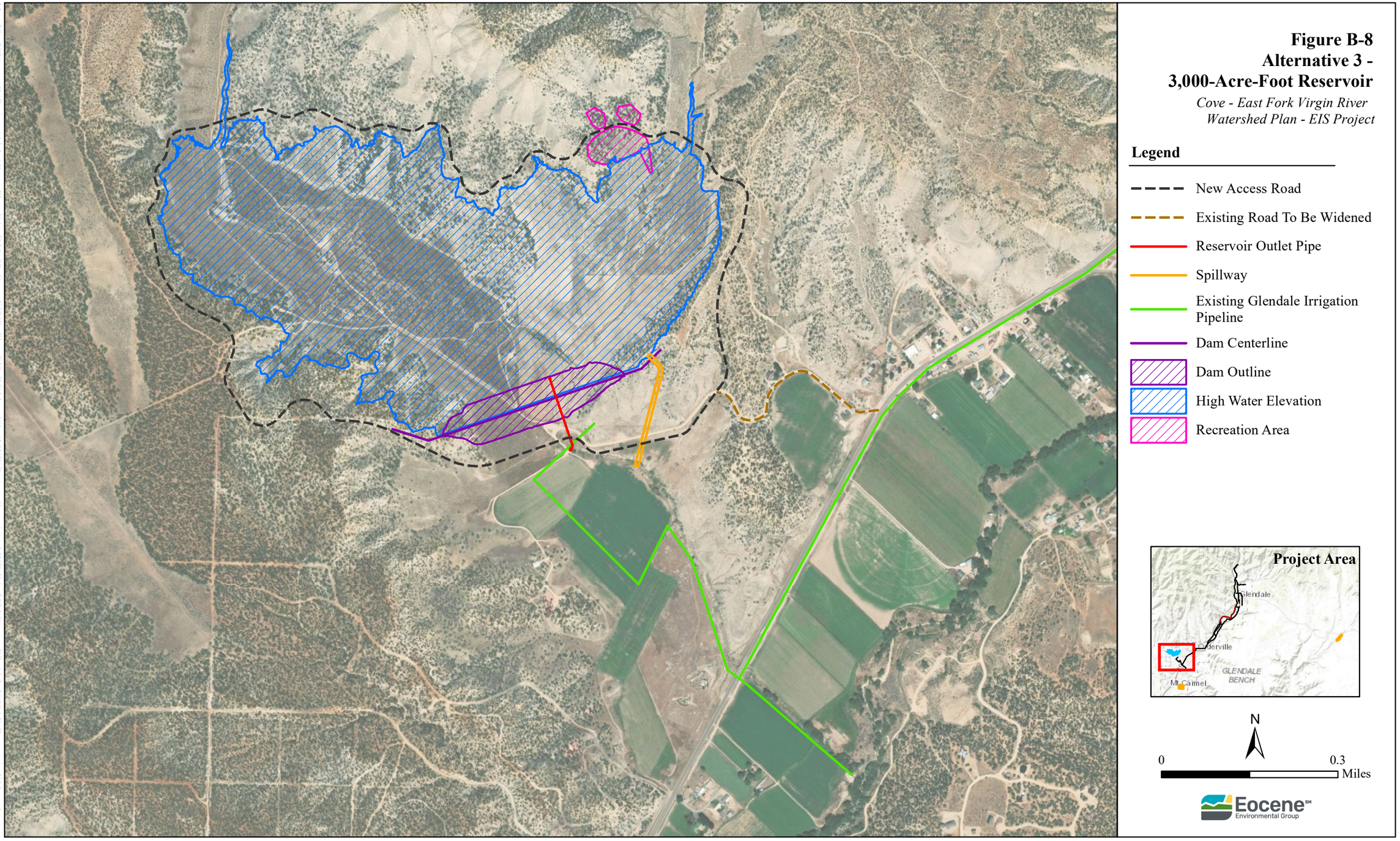

Figure B-8
Alternative 3 -
3,000-Acre-Foot Reservoir

Cove - East Fork Virgin River Watershed Plan - EIS Project