





UPPER VALLEY SEWER STUDY





STUDY BACKGROUND AND OBJECTIVES

- ▶ Protect water supply through sewer management
- ▶ Evaluate treatment and networking options
- ▶ Include population growth



2019 Groundwater Study Results

Nitrates could increase significantly by adding 1540 septic tanks

With no new treatment option, average septic tank density will be 6.6 acres

Increasing population and higher wastewater flows necessitate sustainable treatment options to protect water quality and public health



Zoning boundaries

Boundaries obtained from weber county

Zone data used to estimate flows

















Critical slope areas and National forest excluded from study

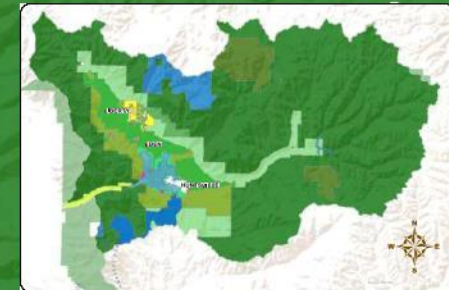
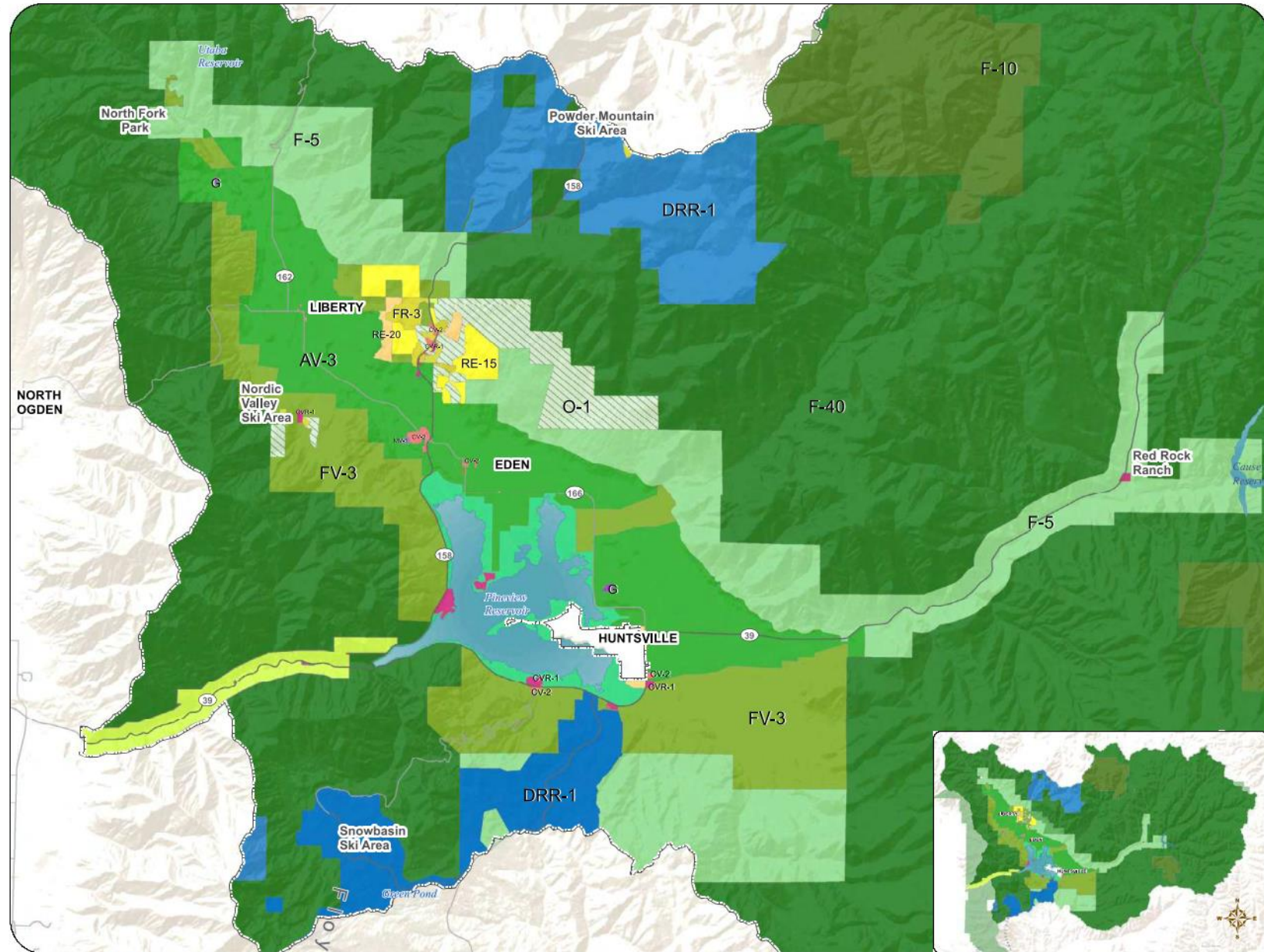
MAP 4: OGDEN VALLEY CURRENT ZONING MAP

Legend

-  Ogden Valley Boundary
-  Lakes
- Transportation**
-  Highway
-  Major road
-  Collector

Zoning

-  G, Gravel
-  CVR-1, Comm Valley Resort Rec
-  CV-1, Commercial Valley
-  CV-2, Commercial Valley
-  DRR-1, Dest, Rec and Resort
-  MV-1, Manuf Valley
-  RE-15, Residential Estate
-  RE-20, Residential Estate
-  RMH 1-6, Manuf Home
-  O-1, Open Space
-  FR-3, Forest Residential
-  FR-1, Forest Residential
-  F-5, Forestry
-  S-1, Shoreline
-  FV-3, Forest Valley
-  AV-3, Agriculture
-  F-10, Forestry
-  F-40



Source:
 UDOT Open Data, Updated on September 9, 2014
 Accessed on October 7, 2014
 Weber County
 USGS Open Data

 **Ogden Valley Zoning**



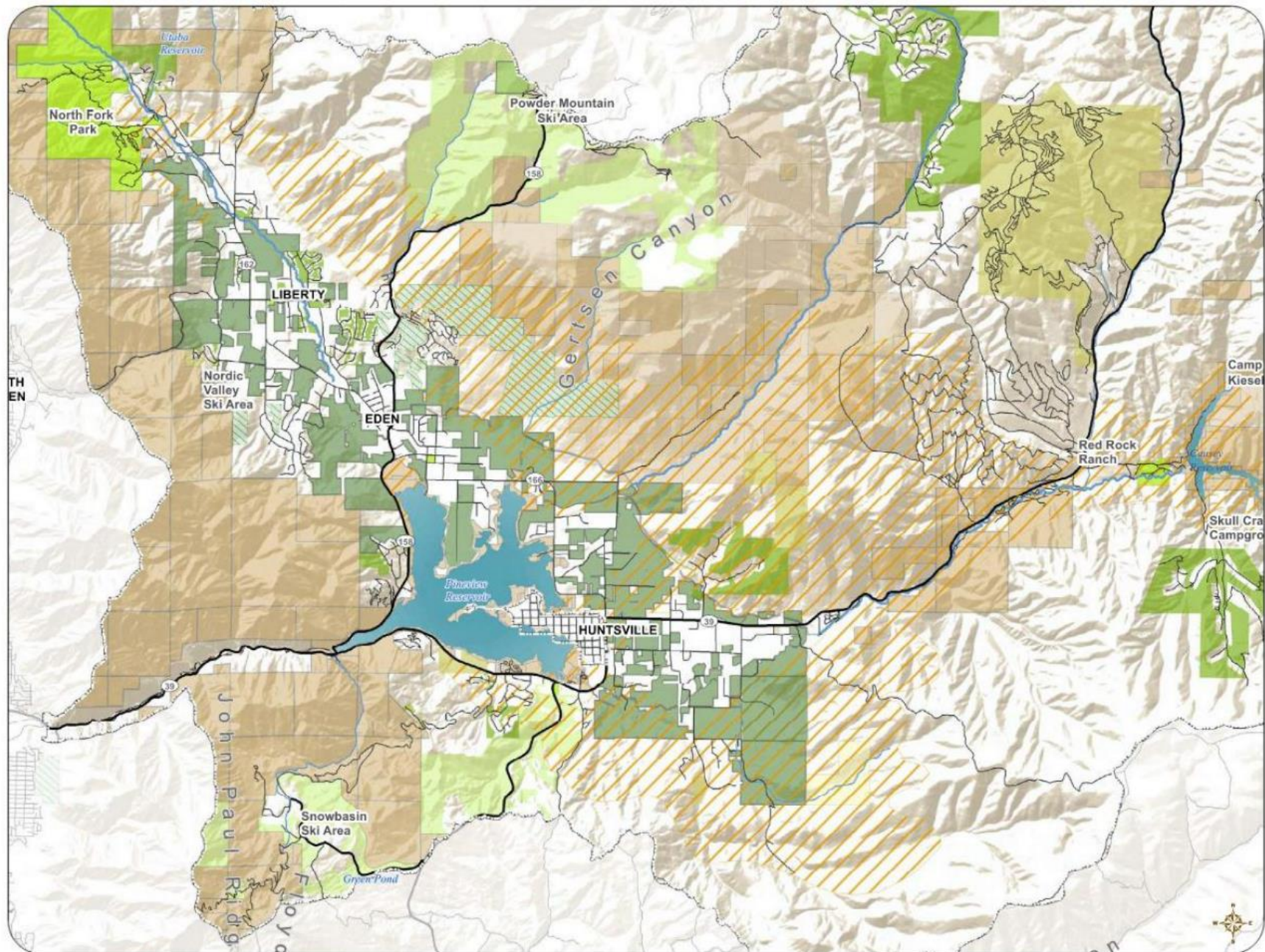
Future Growth – Valley Ag Land and Open Space

Legend

- Ogden Valley Boundary
 - Lakes
 - Weber County Parks
 - State Route
 - Local Road
- Crucial Wildlife Habitats**
- Crucial Wildlife Habitats
 - Stream protected by 100' Buffer
 - Stream protected by 50' Buffer
- Generally Open Lands**
- Agricultural and Open Lands*
 - O-1 Open Space
 - 3rd Party Conservation Easement
 - Development Agreement Open Space
 - Cluster Subdivision Open Space
- Public Lands**
- United States of America
 - State of Utah
 - State of Utah (SITLA)

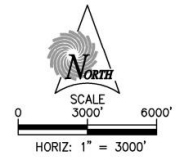
* Open land includes parcels designated as Greenbelt and over 10 acres in the AV-3 and FV-3 Zones. The Monastery and Stringtown Road were also included, as they are significant open spaces important for preservation.

Source:
Logan Simpson
UDOT Open Data, Updated on September 9, 2014
Accessed on October 7, 2014
Weber County
USGS Open Data



Open Lands

0 0.25 1.5 Miles



NOTES:
 • MAX BUILDOUT=33685 SINGLE FAMILY RESIDENCES (OR EQUIVALANT)

WEBER COUNTY SPECS:

MIN. LOT SIZES:

A-1=20,000 FT²
 A-2=20,000 FT²
 A-3=40,000 FT²

M-1=10,000 FT²
 M-2=10,000 FT²
 M-3=20,000 FT²

AV3=3 ACRES

CV-2=10,000 FT² (NO MIN SIZE)

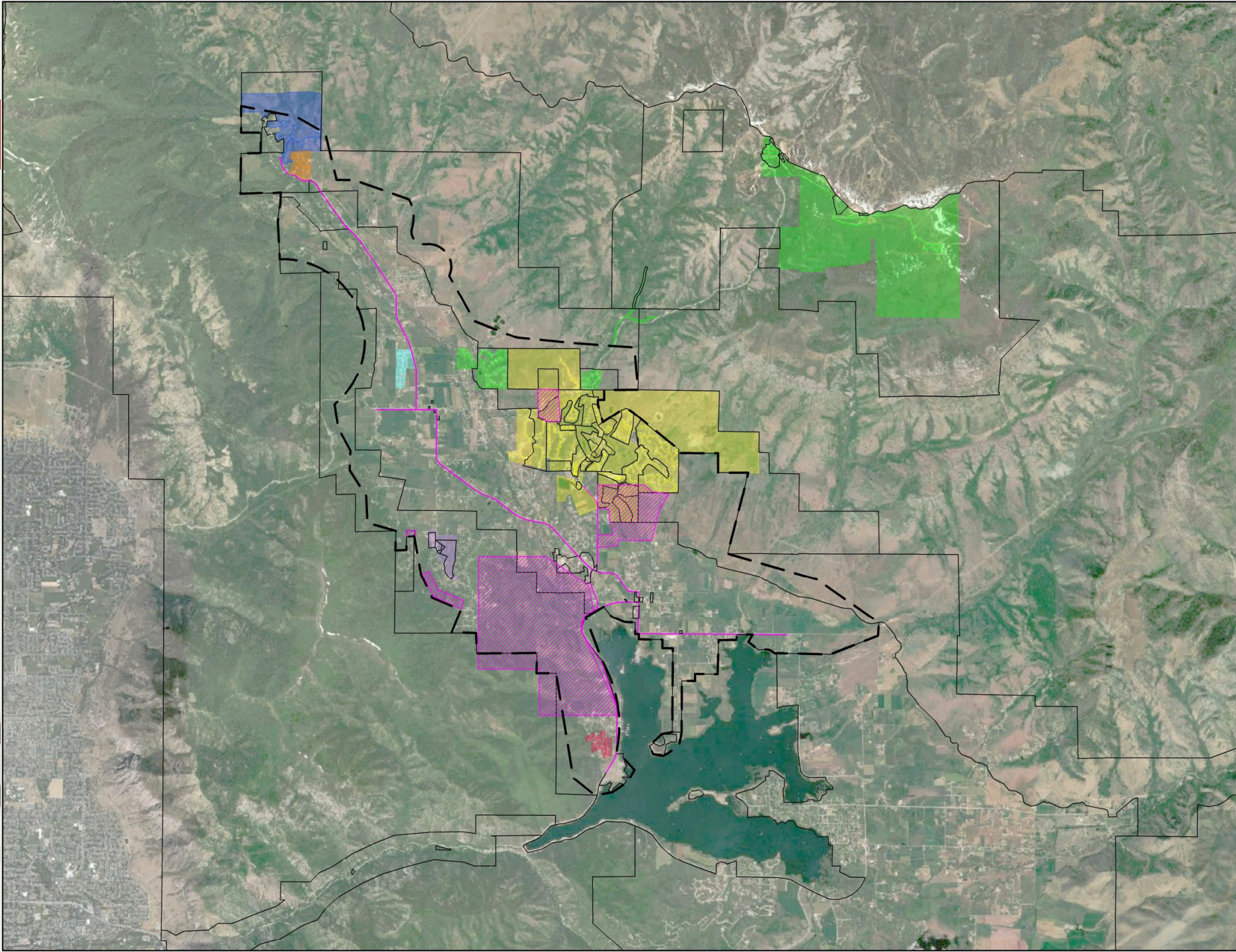
DRR-1=RESORT???

RE-15=15,000 FT²

RE-20=20,000 FT²

- PINEVIEW WEST
- POWDER MOUNTAIN
- DURFEE CREEK
- WOLF CREEK
- NORDIC VALLEY
- EMERSON HILLS SEWER
- BAILEY ACRES SEWER

- PROPOSED SEWER LINE
- EXISTING ZONING BOUNDARY
- - CONTRIBUTING BOUNDARY
- ▨ FUTURE DEVELOPMENT



REV. NO.	COMMENT	DATE

SUNRISE ENGINEERING
 2038 LINCOLN AVENUE, SUITE 104
 OGDEN, UTAH 84401
 TEL 801.692.6515 - FAX 801.692.7157
 WWW.SUNRISE-ENG.COM

WEBER COUNTY

UPPER VALLEY SEWER STUDY
 CIVIL SITE
 EXISTING AND PROPOSED SEWER

REV. NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	### of ###
S07936	JA	CR	CL	#####	#####

Population Growth Estimate

Population centers of Eden, Huntsville, Liberty, and Wolf Creek evaluated in the study

Weighted Average used to project Growth

Growth Estimated Approximately 7%



Area of Interest/Future Service Area

Existing Sewer Districts

- ▶ Pineview West
- ▶ Powder Mountain
- ▶ Durfee Creek
- ▶ Wolf Creek
- ▶ Nordic Valley
- ▶ Emerson Hills
- ▶ Bailey Acres

Proposed Service

- ▶ Special Service district
 - ▶ Service areas outside of boundaries
- ▶ Merge/expand districts
 - ▶ Merge Future development with existing districts

Moving Forward



Rapid Infiltration
Basin (RIB)



Evaluate future
sewer demands
with Wolf Creek



Lift Station
Locations



Treatment facility
location(s)



Funding Options?



We want to hear from you

- ▶ Questions, Comments, and Concerns