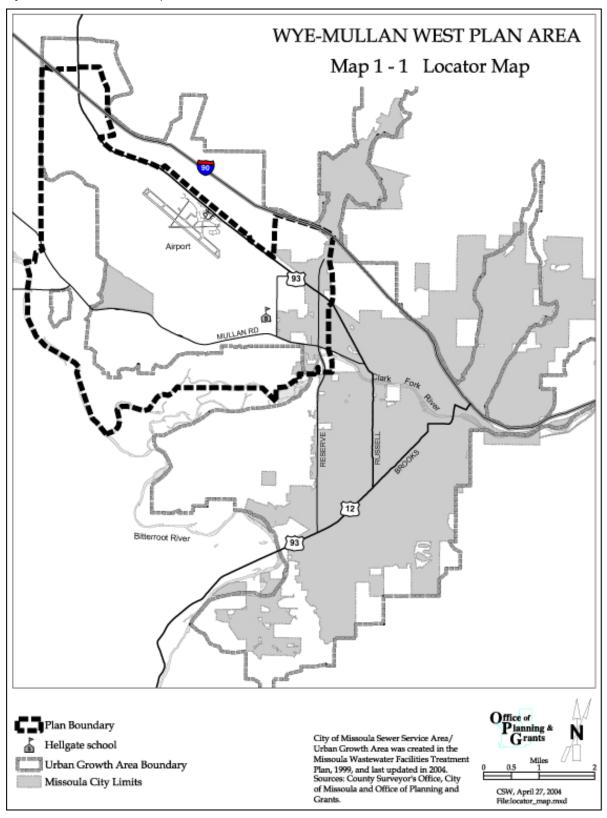
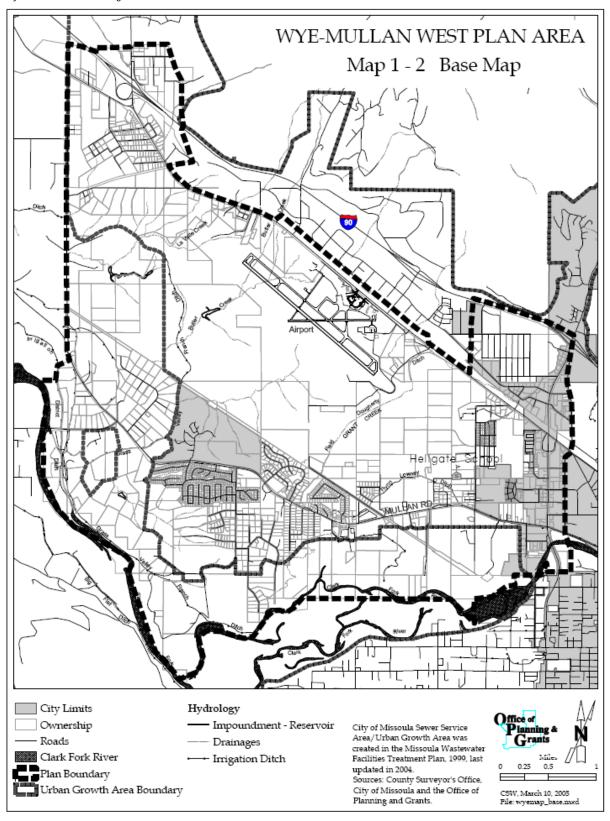


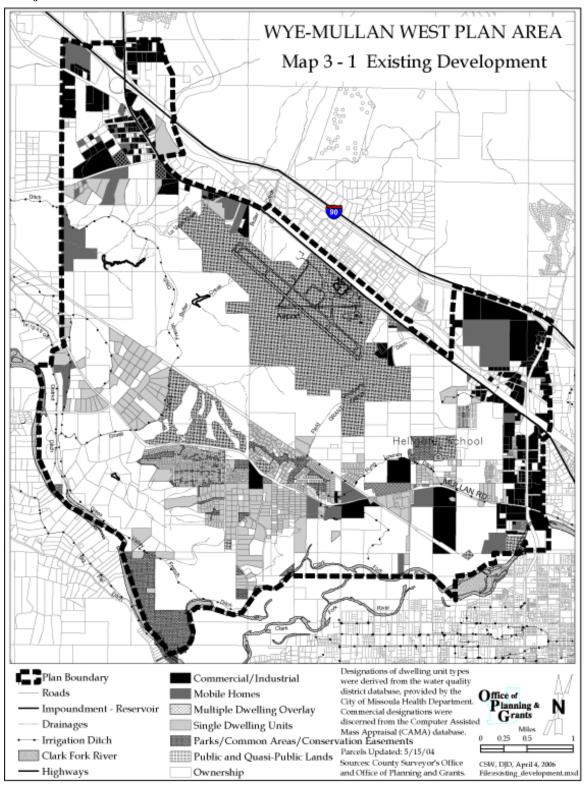
**EXHIBIT G1-1**Wye-Mullan Plan Area Location Map



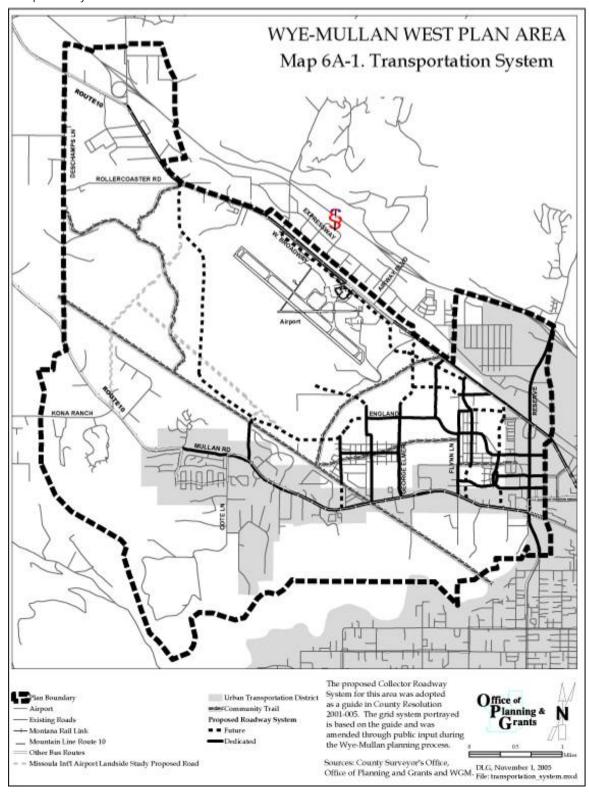
**EXHIBIT G1-2**Wye Mullan West Planning Area Boundaries

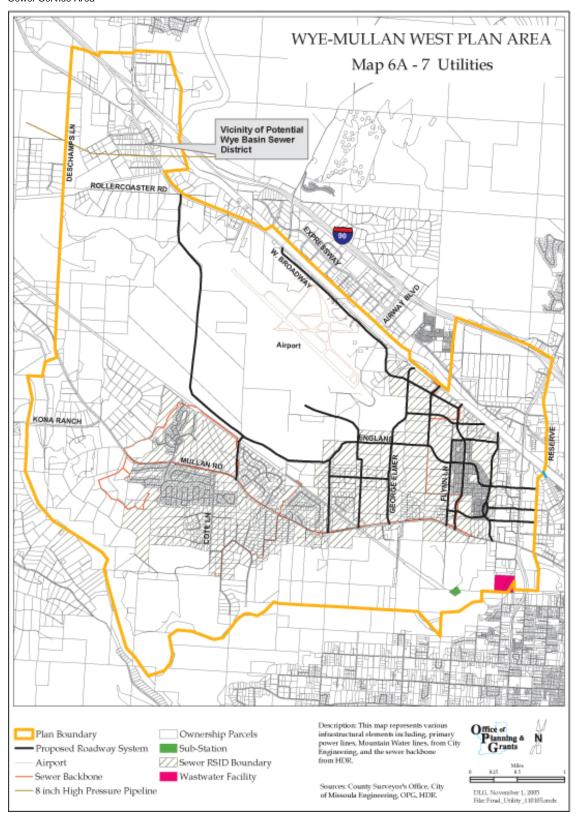


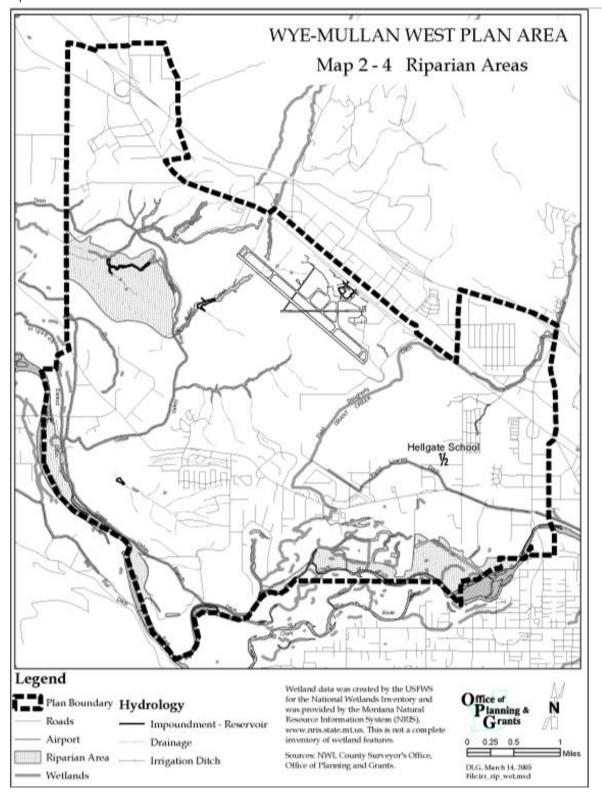
**EXHIBIT G1-3** Existing Land Uses



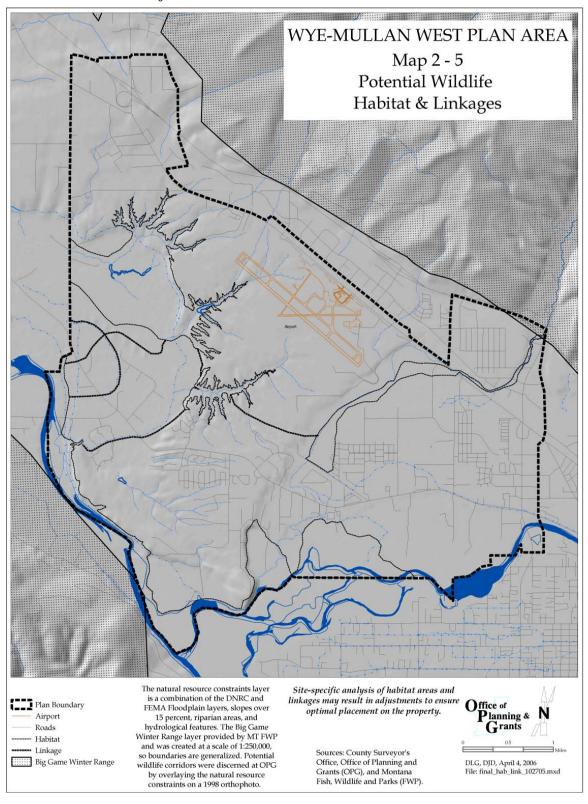
Note: Airport property line does not include most recent land acquisition.



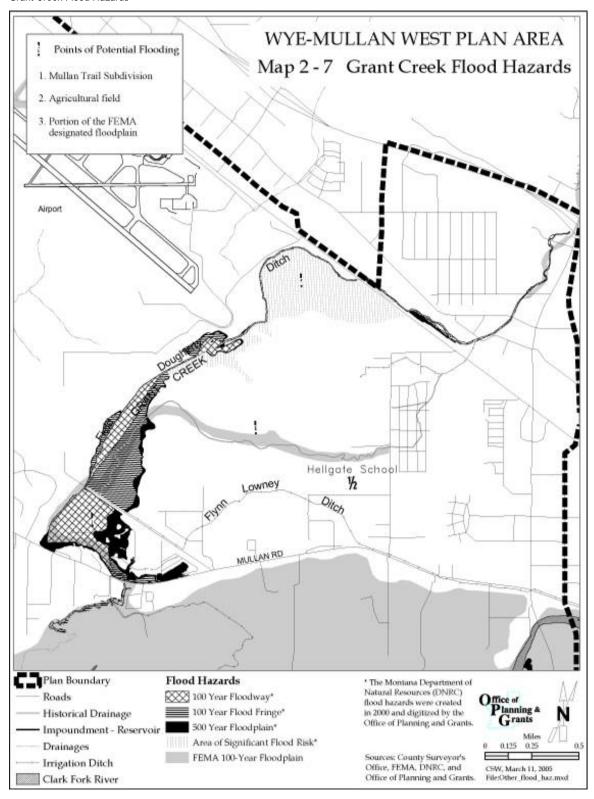




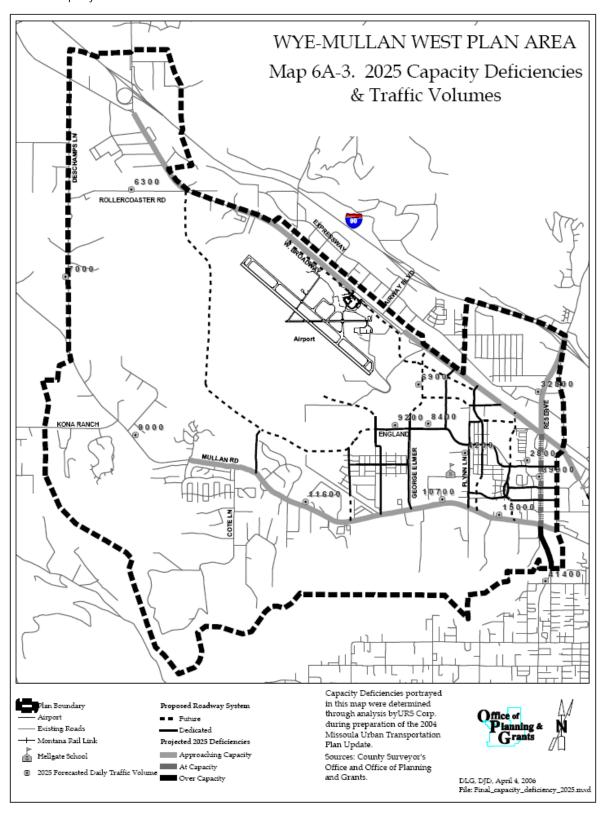
**EXHIBIT G1-7**Potential Wildlife Habitat and Linkages



**EXHIBIT G1-8**Grant Creek Flood Hazards



**EXHIBIT G1-9** 2025 Road Capacity Deficiencies & Traffic Volumes

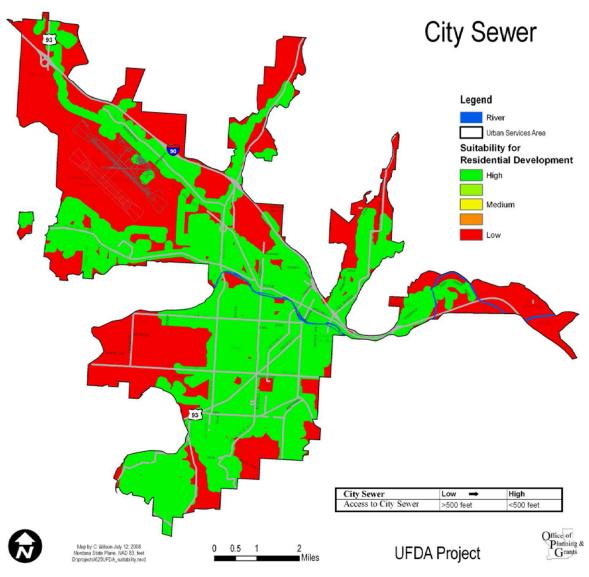




Below are a series of maps taken from the Urban Fringe Development Area Project Update, a residential land use development suitability study completed in 2008. Exhibits G2-1 and G2-2 show water and sewer utilities respectively while G2-3 and G2-4 display transportation and bike access. Exhibit G2-5 shows fire service while Exhibits G2-6, G2-7, and G2-8 show environmental attributes. The final two exhibits show land use suitability for residential homes.

**EXHIBIT G2-1 UFDA Project Mountain Water Access** Mountain Water Access Legend Urban Services Area Suitability for **Residential Development** Medium Mountain Water Low High Access to Mountain Water Mains 500 feet <500 feet **UFDA Project** 

EXHIBIT G2-2 UFDA Project City Sewer



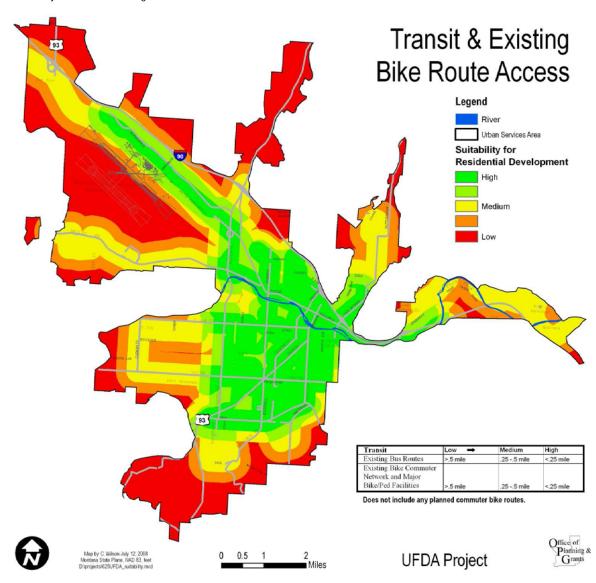
**EXHIBIT G2-3** UFDA Project Transportation Access Transportation 93 Access Legend River Urban Services Area Suitability for Residential Development High Medium Low Areas served primarily by arterials or collectors indicated to be capacity deficient by 2025. 93 Transportation Access

Capacity Deficiencies
2025

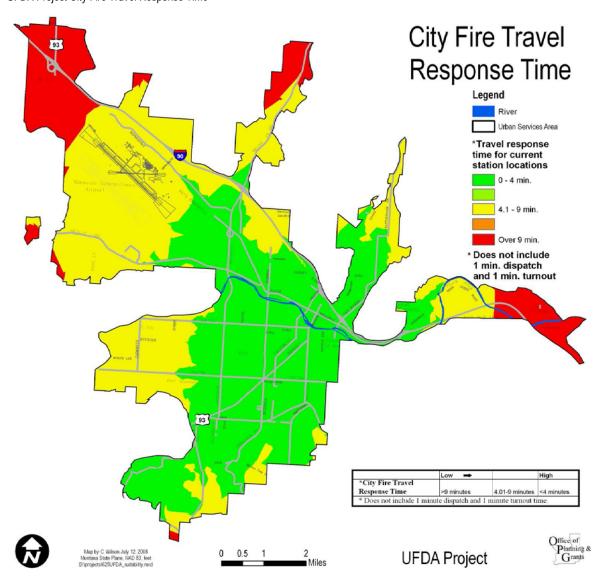
Existing Roads

Low →
Accessed by
Congested to High Accessed by Congested Facility >500 ft Office of Planning & Grants 0 0.5 1 **UFDA** Project

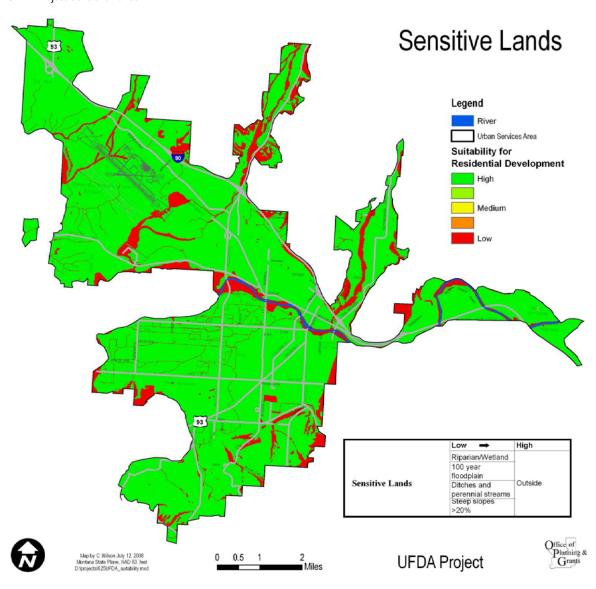
**EXHIBIT G2-4**UFDA Project Transit & Existing Bike Route Access



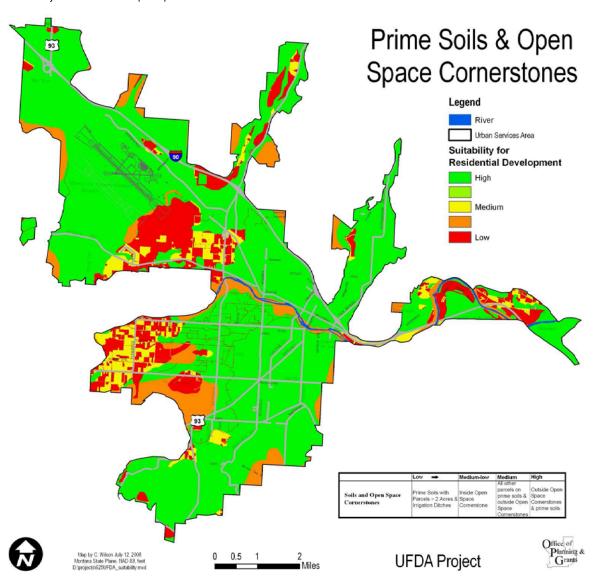
**EXHIBIT G2-5**UFDA Project City Fire Travel Response Time



**EXHIBIT G2-6**UFDA Project Sensitive Lands

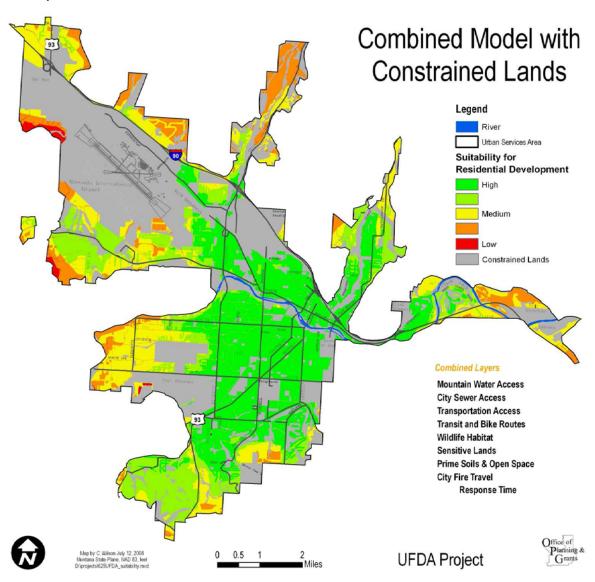


**EXHIBIT G2-7**UFDA Project Prime Soils & Open Space Cornerstones

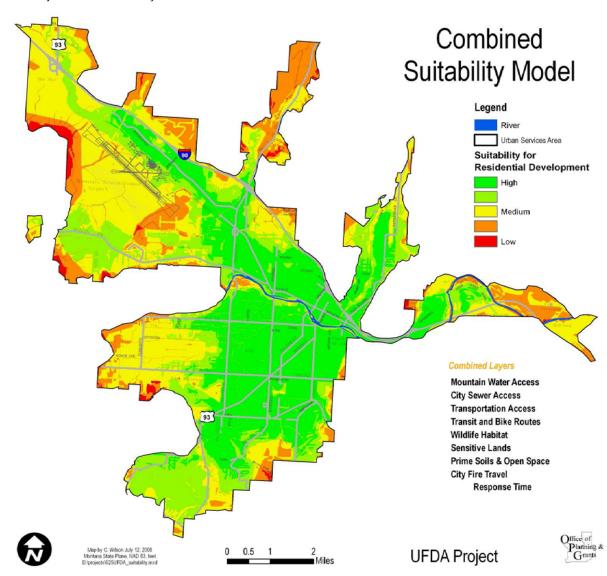


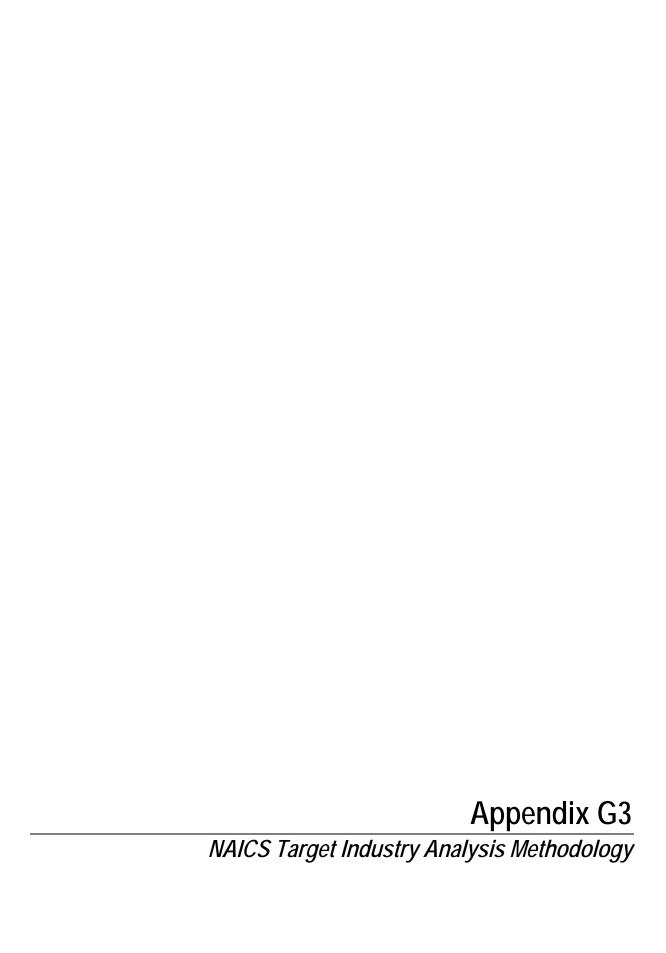
**EXHIBIT G2-8** UFDA Project Key Wildlife Habitat Key Wildlife Habitat Legend River Urban Services Area Suitability for Residential Development High Medium Bull Trout Critical Habitat 50 ft buffer Important Birding Wildlife Office of Planning & Grants 0 0.5 1 **UFDA** Project

**EXHIBIT G2-9**UFDA Project Combined Model with Constrained Lands



**EXHIBIT G2-10**UFDA Project Combined Suitability Model





Below is a list of the factors which served as the basis of the target industry model prepared specifically for the five-county region of Missoula Region, listed separately for manufacturing and non-manufacturing. Each industry is rank-ordered for each factor, and receives a score based on the percentile it places in for the particular factor: for example, the industry that comes up top in a factor ranking receives a score of one, the median industry scores 0.5 and the lowest scores zero. The overall score of the industry is a weighted sum of the scores associated with each factor: some factors are more heavily weighted than others.

## G3.1 Manufacturing

#### **G3.1.1 Growth Factors**

- Projected Industry Output Growth, U.S., 2007-12
   Weight=2
- Projected Industry Employment Growth, U.S., 2007-12 Weight=2
- Projected Industry Employment Growth, MONTANA State, 2007-12 Weight=4

These factors are meant to ensure that growing industries are included and declining industries are discarded. The first one identifies industries that are expected to grow in importance nationally in terms of output. The other two look at employment. Industries where output is projected to grow faster than productivity, resulting in more projected jobs nationally and regionally, are favored by these two factors. State-level projections were utilized rather than projections specific to the region because state-level growth is a more appropriate measure of opportunities.

### G3.1.2 Wage Factors

- Industry Wage Index, U.S., 2007 Weight=3
- Industry Wage Index, Missoula Region, 2007 Weight=2

These factors are meant to identify industries that pay better than average wages, compared to the national and regional manufacturing average. These are industries that are more desirable for recruitment, because they generate higher incomes, taxes and wealth.

#### **G3.1.3 Location Quotients**

- Industry Location Quotient, Missoula Region, 2007 Weight=3
- Industry Location Quotient, MONTANA State, 2007 Weight=1

Location Quotients have already been defined as an industry's share of total employment in the region, divided by the corresponding share nationally. They describe how concentrated

an industry is in the region of study. Included in the analysis were industries in both Missoula Region and Montana State (the latter with a much smaller weight). Industries with a high existing concentration have the advantage of a base of skills and supply chain networks. However, relatively lower weights are assigned to such industries as they often tend to overpower new and emerging businesses of the same nature.

### **G3.1.4 Productivity and Profitability**

- Industry Productivity Index, Missoula Region, 2007 Weight=3
- Projected Change in Industry Profitability, Missoula Region, 2007-12 Weight=2

The industry productivity index is output per worker in Missoula Region divided by the corresponding number in the U.S. An index of over 1 means that labor productivity in the region is higher than the national average. Industries with high productivity indices have an advantage and would be hood targets for recruitment, retention and expansion, and are less likely to leave. The Input-Output model utilized also calculates industry profitability in the region, and projects changes in profitability, based on labor and other costs, productivity and output growth. Industries with strong projected growth in profitability are also good target industries.

# G3.2 Nonmanufacturing

Because of their weaker connection to technology and supply chains and the higher mobility of their workers, service industries are harder to analyze. Still, a similar analysis was conducted for nonmanufacturing industries, with slightly different weights. One important lesson was that Lewis and Clark County, with its very large inventory of media and financial services industries, would significantly skew the results of the target industry analysis for the entire Montana region. Therefore, weights were kept low for state-level factors. As the explanations and justifications are the same as in manufacturing, they will not be repeated.

### G3.2.1 Growth Factors

- Projected Industry Output Growth, U.S., 2007-12
   Weight=1
- Projected Industry Employment Growth, U.S., 2007-12 Weight=2
- Projected Industry Employment Growth for Montana State, 2007-12 Weight=2

### G3.2.2 Wage Factors

- Industry Wage Index, U.S., 2007 Weight=3
- Industry Wage Index, Missoula Region, 2007 Weight=2

### **G3.2.3 Location Quotients**

- Industry Location Quotient, Missoula Region, 2007 Weight=4
- Industry Location Quotient, Montana State, 2007
- Weight=1

# G3.2.4 Productivity and Profitability

Projected Change in Industry Profitability, Missoula Region, 2007-12
 Weight=2

Productivity factors were not included because they distort the analysis. In many service industries labor productivity (output per worker) has more to do with the value and price of the product than with the physical productivity of the workers.



Applying the methodology to the data gave the raw results in the following tables.

TABLE G4-1

Top 20 Manufacturing Industries

Top 20 Manufacturing Industries					
5-Digit NAICS Industry	Industry	Rank	Cluster		
32541	Pharmaceutical and Medicine Manufacturing	1.00	Pharma/Bio		
33911	Medical Equipment and Supplies Manufacturing	2.00	Pharma/Bio		
33392	Material Handling Equipment Manufacturing	3.00	General Machinery, Equipment and Components		
32732	Ready-Mix Concrete Manufacturing	4.00	Non-Metallic Minerals		
33231	Plate Work and Fabricated Structural Product Manufacturing	5.00	Metals forming and fabrication		
32621	Tire Manufacturing	6.00	Plastics & Rubber Manufacturing		
33331	Commercial and Service Industry Machinery Manufacturing	7.00	General Machinery, Equipment and Components		
32739	Other Concrete Product Manufacturing	8.00	Non-Metallic Minerals		
33232	Ornamental and Architectural Metal Products Manufacturing	9.00	Metals forming and fabrication		
32121	Veneer, Plywood, and Engineered Wood Product Manufacturing	10.00	Agricultural and Resource		
32562	Toilet Preparation Manufacturing	11.00	Chemicals Manufacturing		
33312	Construction Machinery Manufacturing	12.00	General Machinery, Equipment and Components		
32191	Millwork	13.00	Agricultural and Resource		
32619	Other Plastics Product Manufacturing	14.00	Plastics & Rubber Manufacturing		
33531	Electrical Equipment Manufacturing	15.00	Electronic Components		
33151	Ferrous Metal Foundries	16.00	Metals forming and fabrication		
33152	Nonferrous Metal Foundries	17.00	Metals forming and fabrication		
33271	Machine Shops	18.00	Metals forming and fabrication		
33221	Cutlery and Hand tool Manufacturing	19.00	Metals forming and fabrication		
31192	Coffee and Tea Manufacturing	20.00	Food and Beverage		

TABLE G4-2

Top 20 Services Industries

5-Digit NAICS Industry	Industry	Rank
54162	Environmental Consulting Services	1
51419	Other Information Services	2
62133	Offices of Mental Health Practitioners (except Physicians)	3
54172	Research and Development in the Social Sciences and Humanities	4
54169	Other Scientific and Technical Consulting Services	5
54151	Computer Systems Design and Related Services	6
62134	Offices of Physical, Occupational and Speech Therapists, and Audiologists	7
54149	Other Specialized Design Services	8
62121	Offices of Dentists	9
56121	Facilities Support Services	10
51412	Libraries and Archives	11
53249	Other Commercial and Industrial Machinery and Equipment Rental and Leasing	12
62139	Offices of All Other Health Practitioners	13
51213	Motion Picture and Video Exhibition	14
56145	Credit Bureaus	15
62161	Home Health Care Services	16
62141	Family Planning Centers	17
62131	Offices of Chiropractors	18
56111	Office Administrative Services	19
51421	Data Processing Services	20