Wolf Lodge Creek
Watershed Assessment and Restoration Prioritization Plan

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Wolf Lodge Creek
Watershed Advisory Group Meeting
April 12, 2016
About River Design Group

• Founded in 2003
• Offices in Corvallis, OR and Whitefish, MT
• Multi-disciplinary staff of 20 employees
• We work exclusively on restoration projects
Kootenai River
Habitat Restoration Program

Bonners Ferry, ID
O'Dell Creek
Ennis, MT
Example Restoration Techniques

Floodplain Treatments

• Varied grading
• Off channel wetlands and side channels
• Wood placement and planting
Example Restoration Techniques

Channel Construction

- Varied grading
- Off channel wetlands and side channels
- Wood placement and planting
Example Restoration Techniques

Streambank Restoration

- Bioengineering
- Wood structures
- Planting
Scope of Work for Wolf Lodge Creek

- Watershed assessment and field data collection
- Conceptual plan development
- 4 meetings
Wolf Lodge Creek Project Goals

• Improve stream and floodplain function by implementing restoration actions that promote channel stability, reduce flood risk and establish sustainable native riparian plant communities;

• Improve aquatic habitat conditions by implementing restoration actions that address sediment sources and elevated water temperatures;

• Collaborate with landowners and federal, state and local agencies on similar efforts to improve ecosystem functions on Wolf Lodge Creek; and

• Provide information necessary to complete the 5-year review of the sediment and temperature TMDLs on Wolf Lodge Creek.
Wolf Lodge Creek Project Approach

Land Use History

Stream Crossing Evaluations
Wolf Lodge Creek Project Approach

Sediment Source Inventory

Stream Shade Analysis

Grouse Creek Watershed Assessment
Fig. A-17 Channel Sediment Sources

Grouse Creek Watershed Assessment
Fig. A-13 Stream Shade Analysis
Example Design Drawing
Example Design Drawing

Grouse Creek Watershed Assessment
Fig. A-24 Revegetation Treatments

Features:
- Reach Break
- Coir Log Fascine
- Vegetated Set-Back Trench
- Microtopography -- Swales & Woody Debris
- Flood Canopygras Control

FLOW
REACH 10

Calburn Coleas Rd

0 500 1,000 1,500 2,000 Feet

River Design Group, Inc.
## Project Schedule

### Table 1. Schedule for the Scope of Work.

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<th>Scope of Work Task</th>
<th>2016</th>
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<tr>
<td><strong>Task 1 Project Management</strong></td>
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<td>Meeting 1 – Kickoff Meeting</td>
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<td>Meeting 2 – Alternatives and Prioritization Meeting</td>
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<td>Meeting 3 – Draft Plan Review Meeting</td>
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<td>Meeting 4 – Public Meeting</td>
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<td><strong>Task 2 Watershed Assessment and Data Collection</strong></td>
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<td>Task 2.1 Gather Existing Data and Review Documents</td>
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<td>Task 2.2 Prepare &amp; Coordinate Field Plan</td>
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<td>Task 2.4 Survey Data Processing</td>
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<td>Task 2.5 Synthesize, Analyze and Summarize Data</td>
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<td>Task 3.7 Document Production and Electronic Files</td>
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