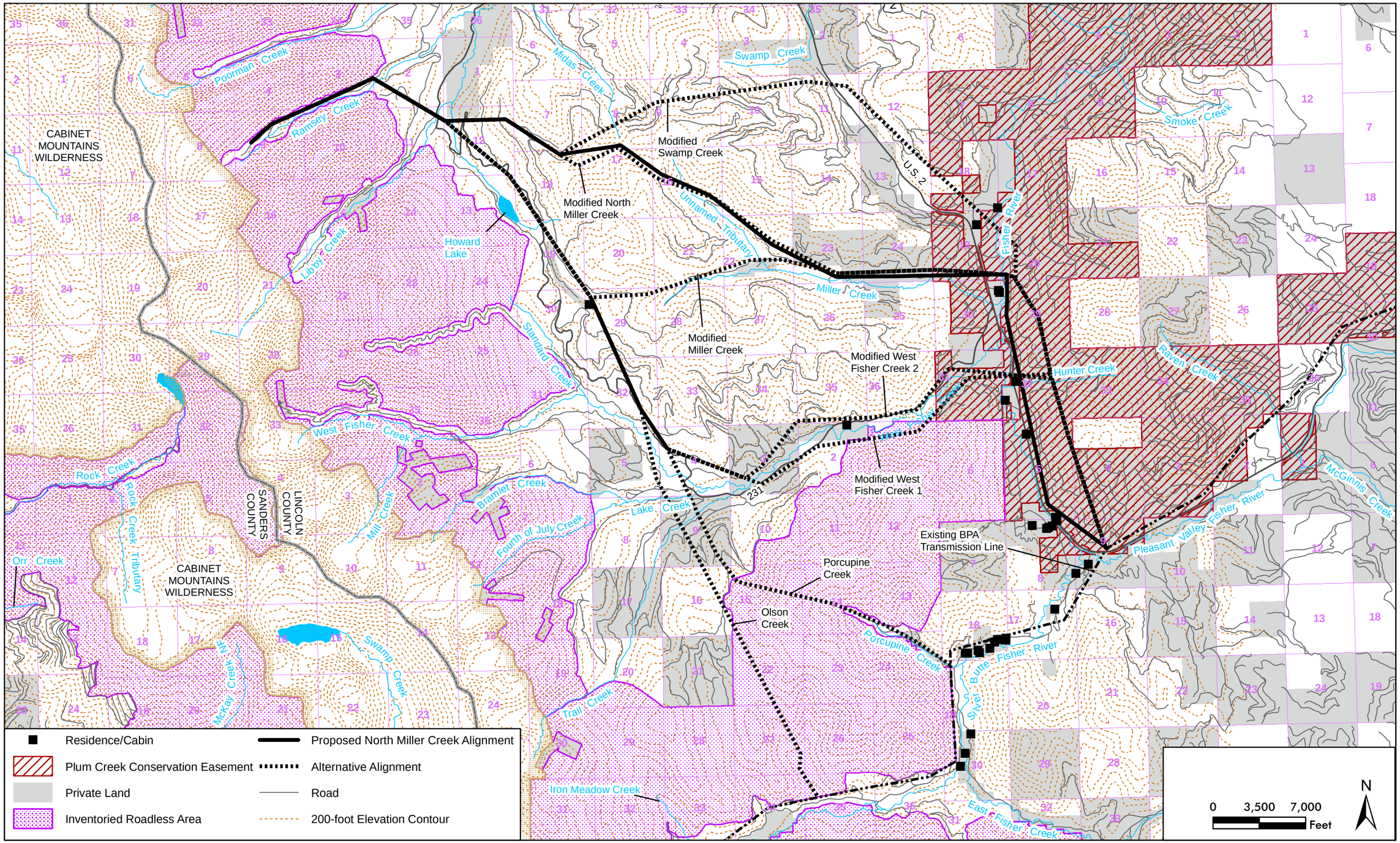


Figure 50. Transmission Line Alignment Alternatives Evaluated for this EIS

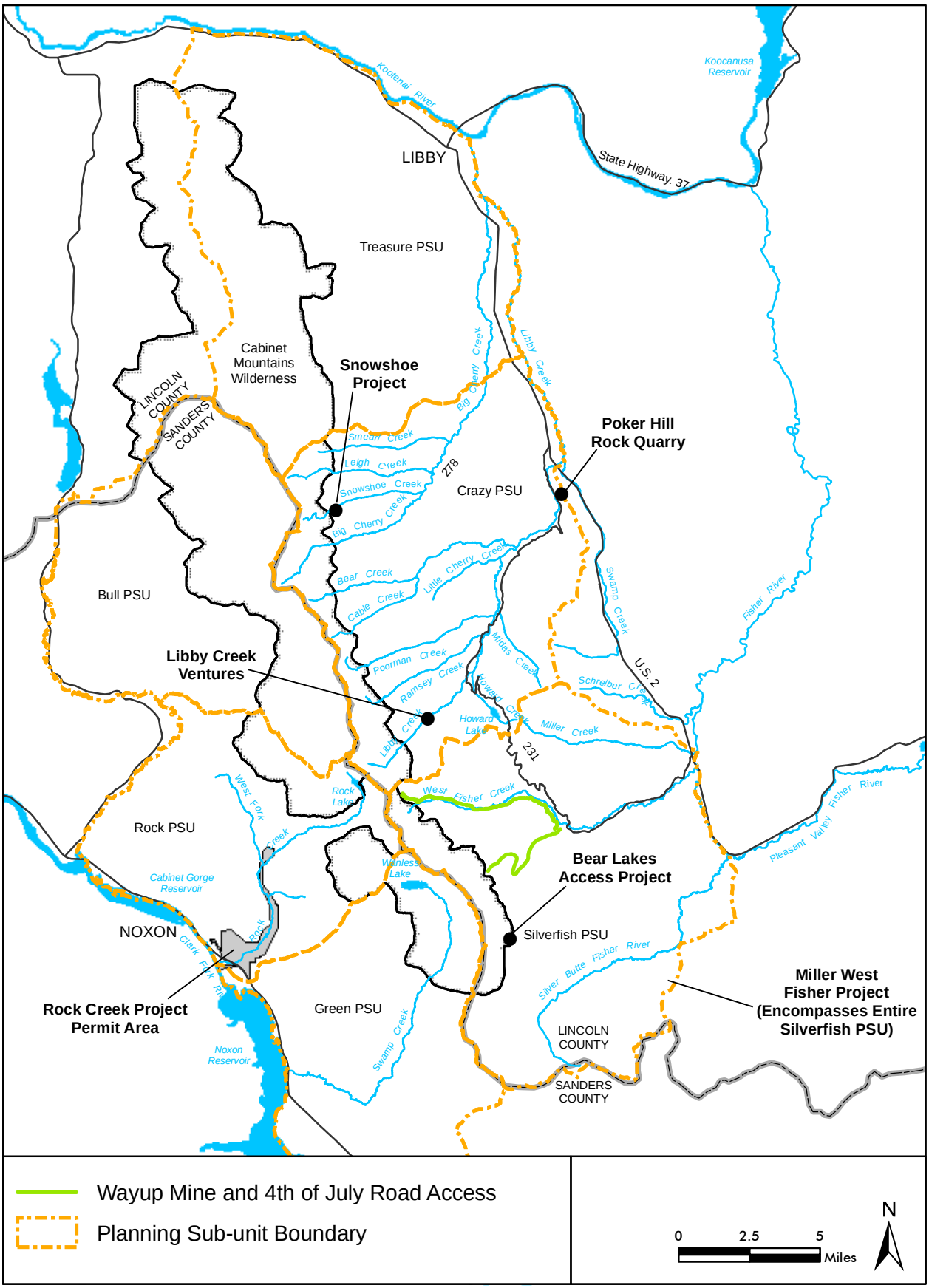


Figure 51. Past, Current and Reasonably Foreseeable Actions for the Proposed Montanore Project

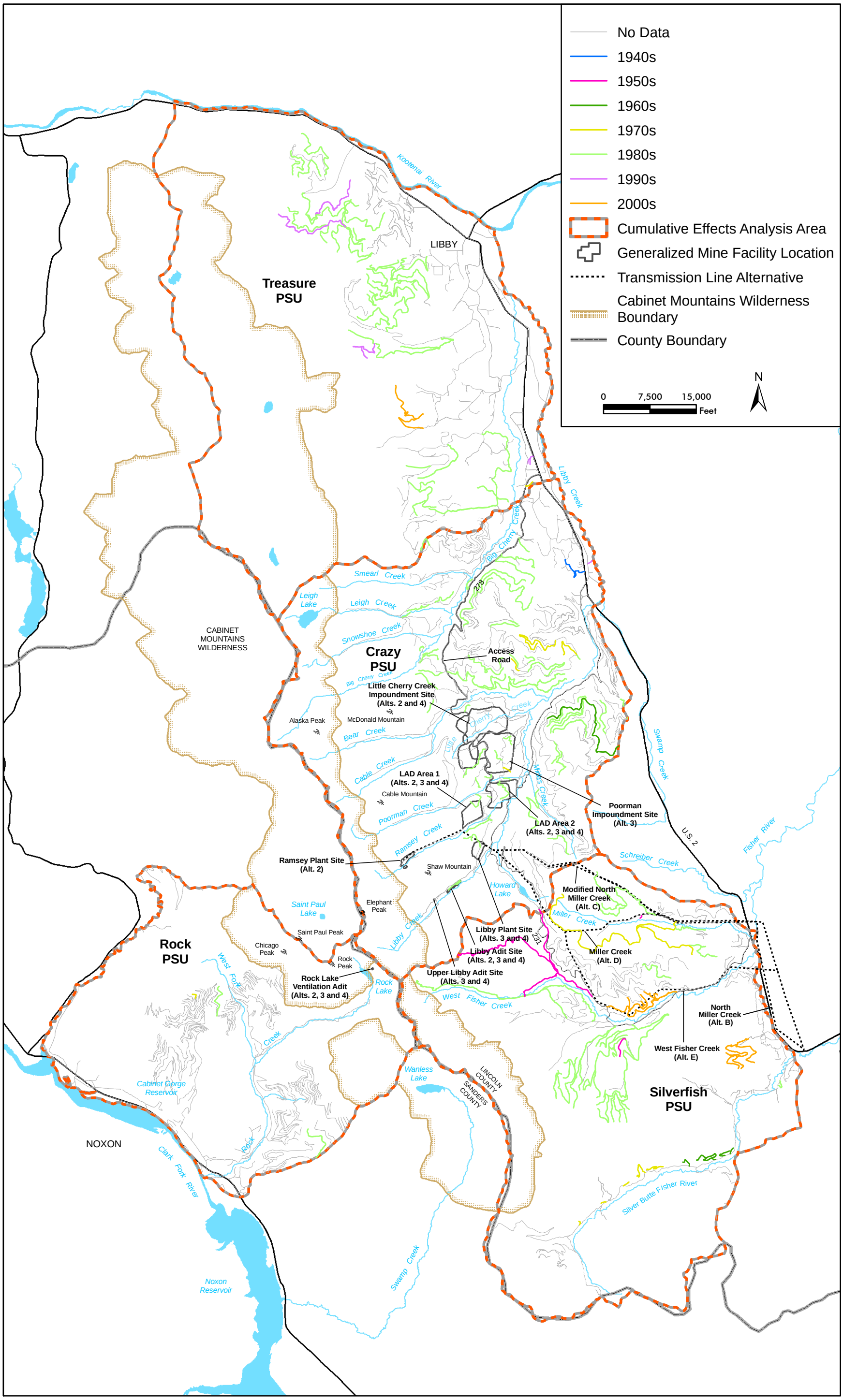


Figure 52. Road Construction by Decade in the Montanore Cumulative Effects Analysis Area

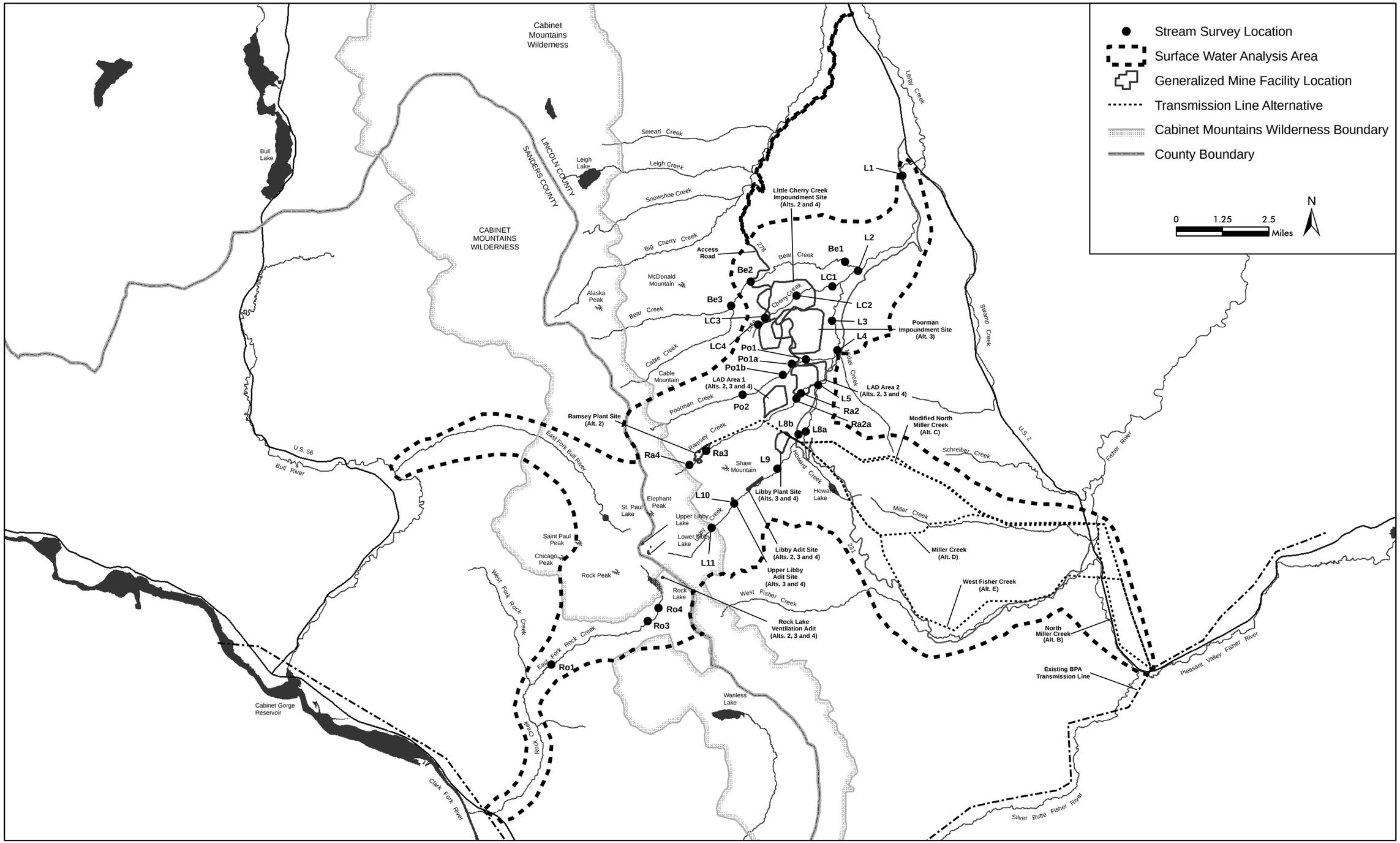


Figure 53. Stream Survey Locations in the Analysis Area

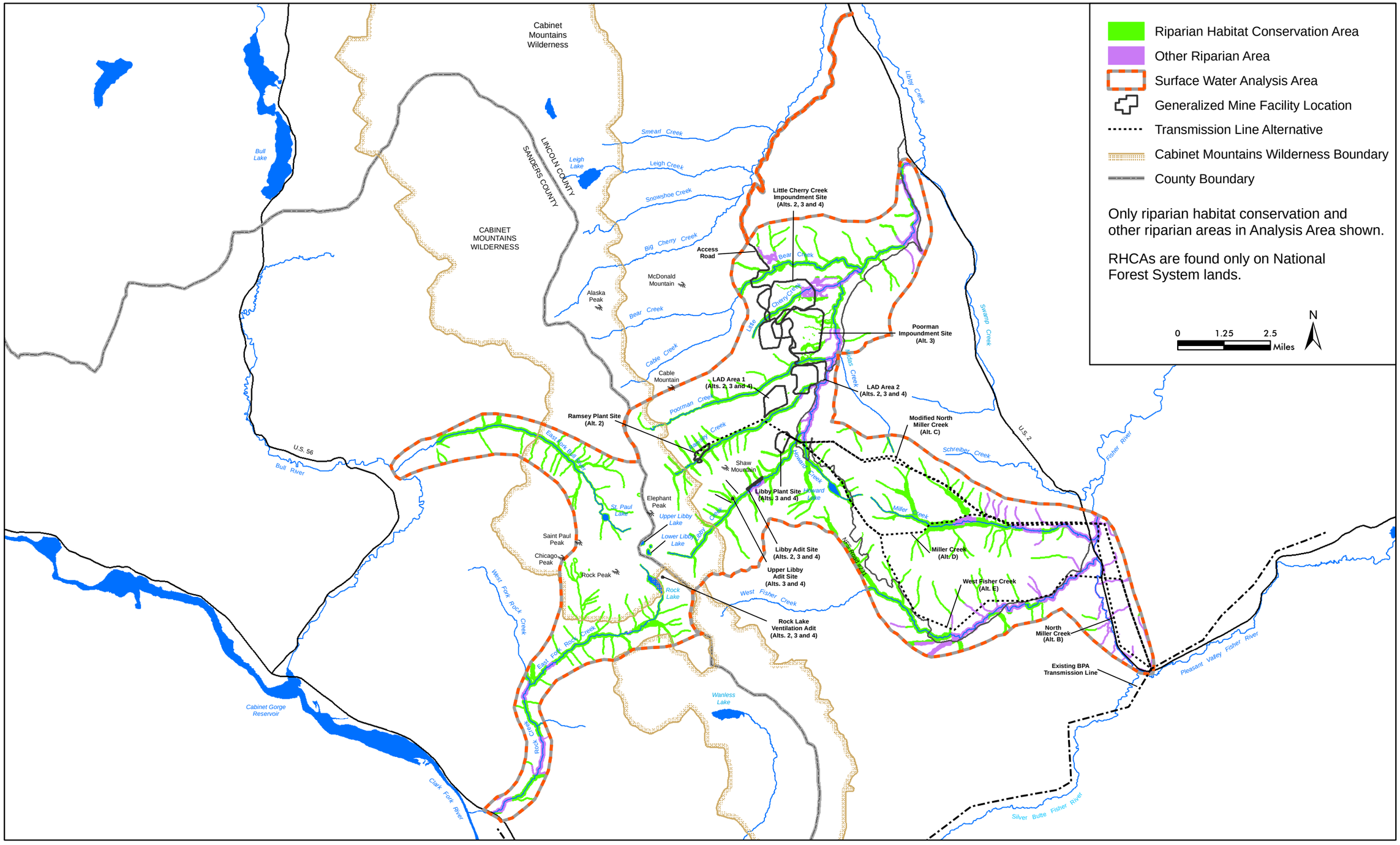
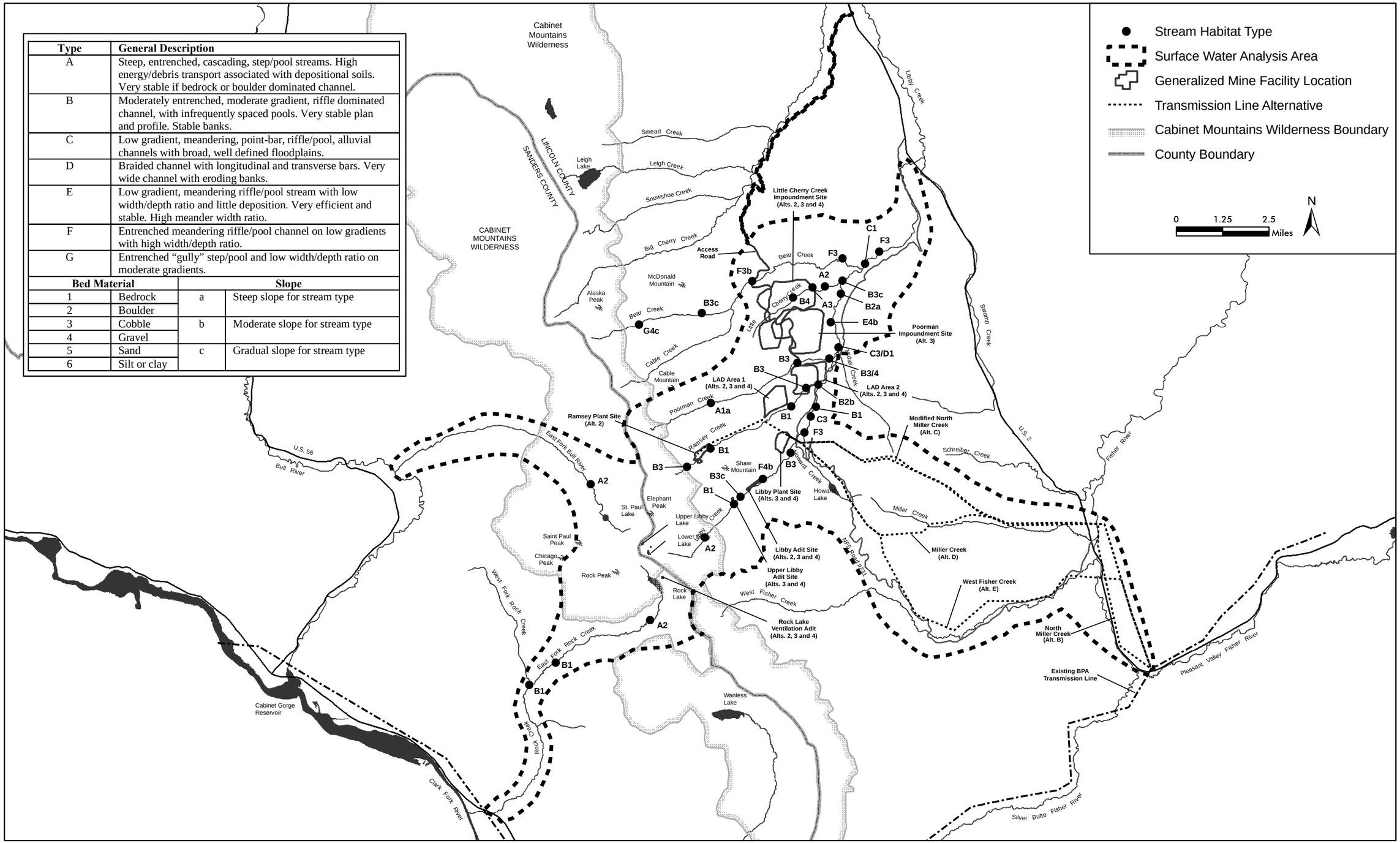


Figure 54. Riparian Habitat Conservation Areas and Other Riparian Areas in the Analysis Area



Type	General Description
A	Steep, entrenched, cascading, step/pool streams. High energy/debris transport associated with depositional soils. Very stable if bedrock or boulder dominated channel.
B	Moderately entrenched, moderate gradient, riffle dominated channel, with infrequently spaced pools. Very stable plan and profile. Stable banks.
C	Low gradient, meandering, point-bar, riffle/pool, alluvial channels with broad, well defined floodplains.
D	Braided channel with longitudinal and transverse bars. Very wide channel with eroding banks.
E	Low gradient, meandering riffle/pool stream with low width/depth ratio and little deposition. Very efficient and stable. High meander width ratio.
F	Entrenched meandering riffle/pool channel on low gradients with high width/depth ratio.
G	Entrenched "gully" step/pool and low width/depth ratio on moderate gradients.

Bed Material		Slope	
1	Bedrock	a	Steep slope for stream type
2	Boulder		
3	Cobble	b	Moderate slope for stream type
4	Gravel		
5	Sand	c	Gradual slope for stream type
6	Silt or clay		

Figure 55. Stream Habitat Types of the Analysis Area Streams

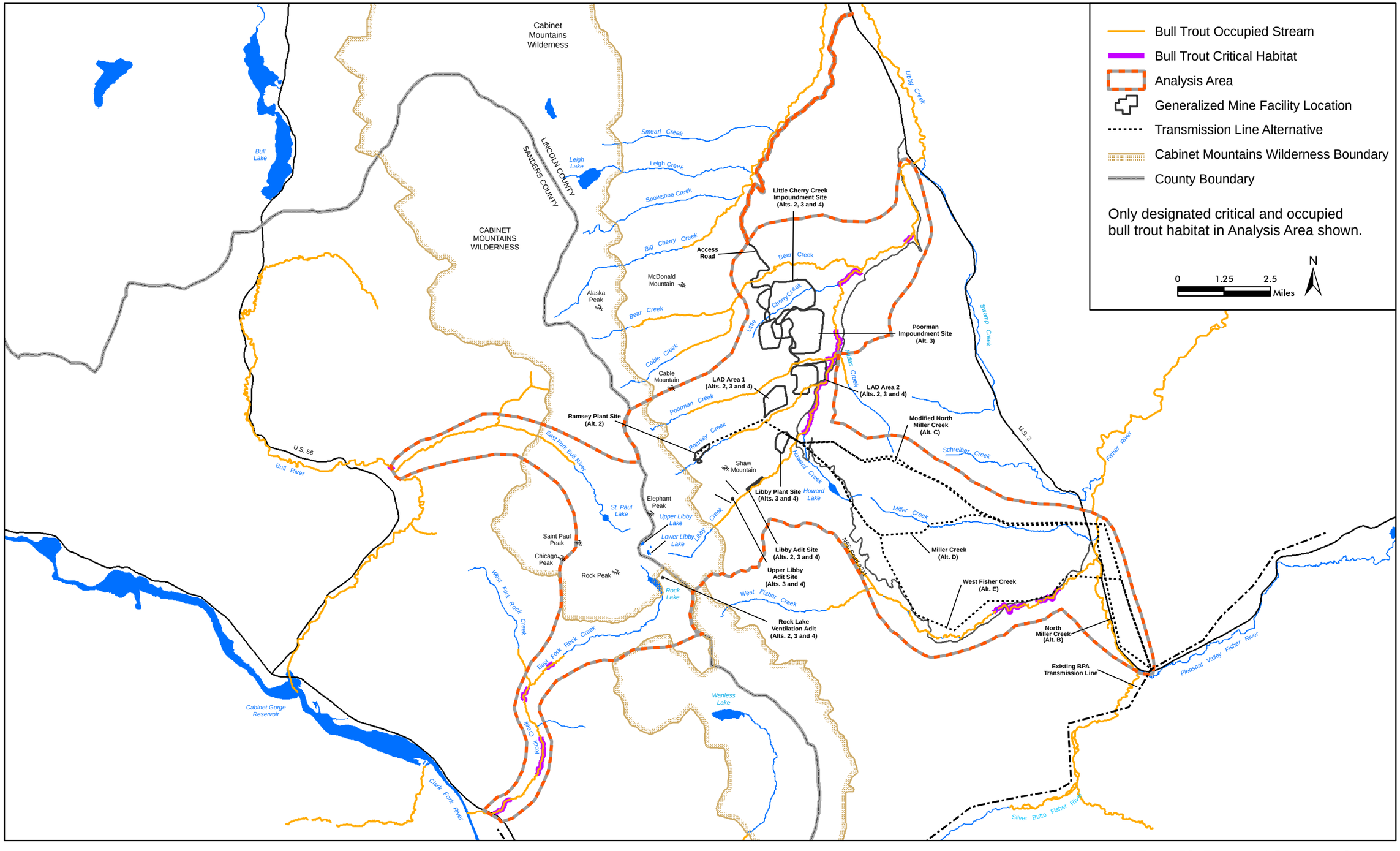


Figure 56. Designated Critical and Occupied Bull Trout Habitat in the Analysis Area Streams

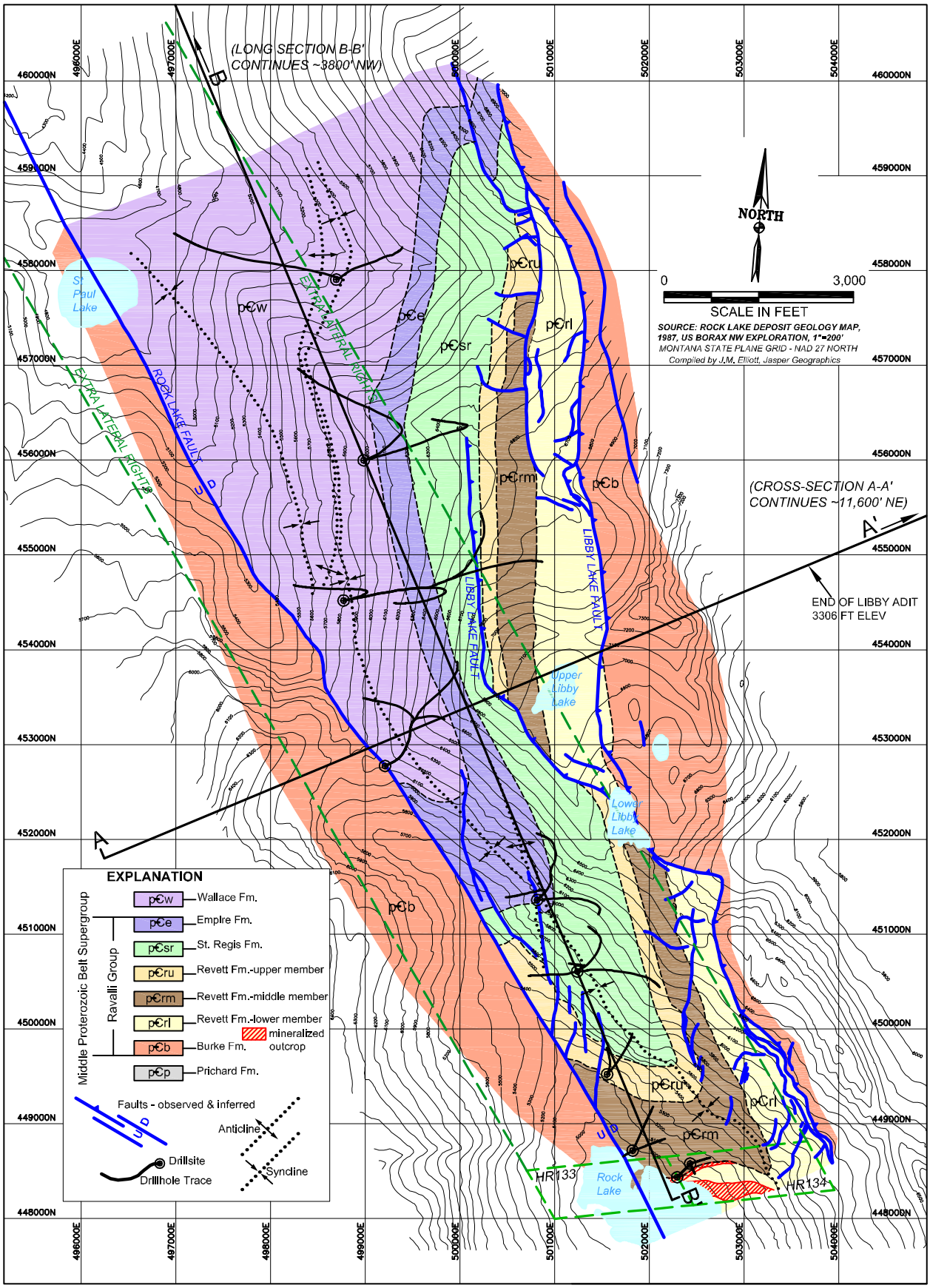


Figure 57. Bedrock Geology of the Rock Creek-Montanore Deposit

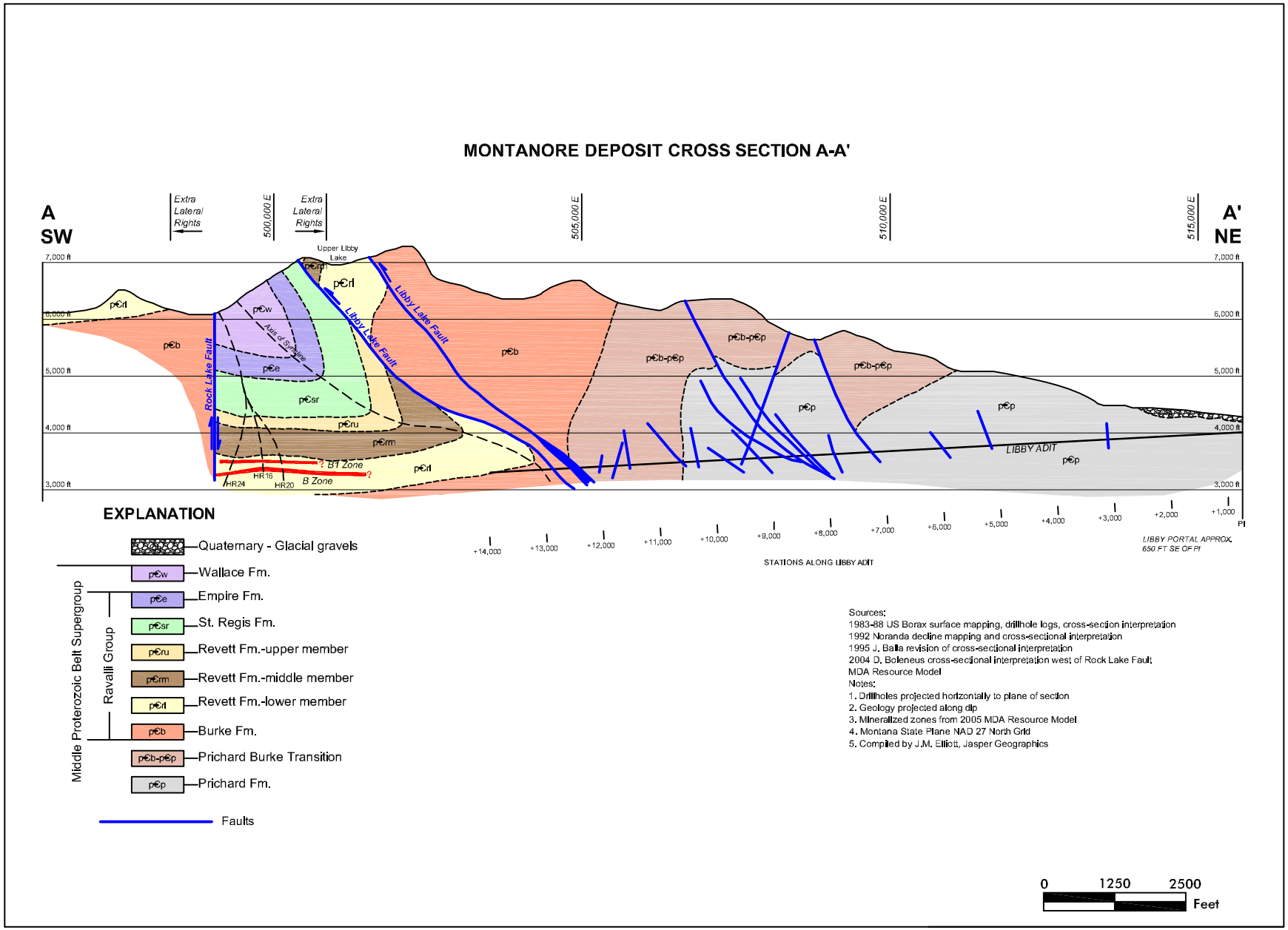


Figure 58. Geologic Cross Section-Libby Adit

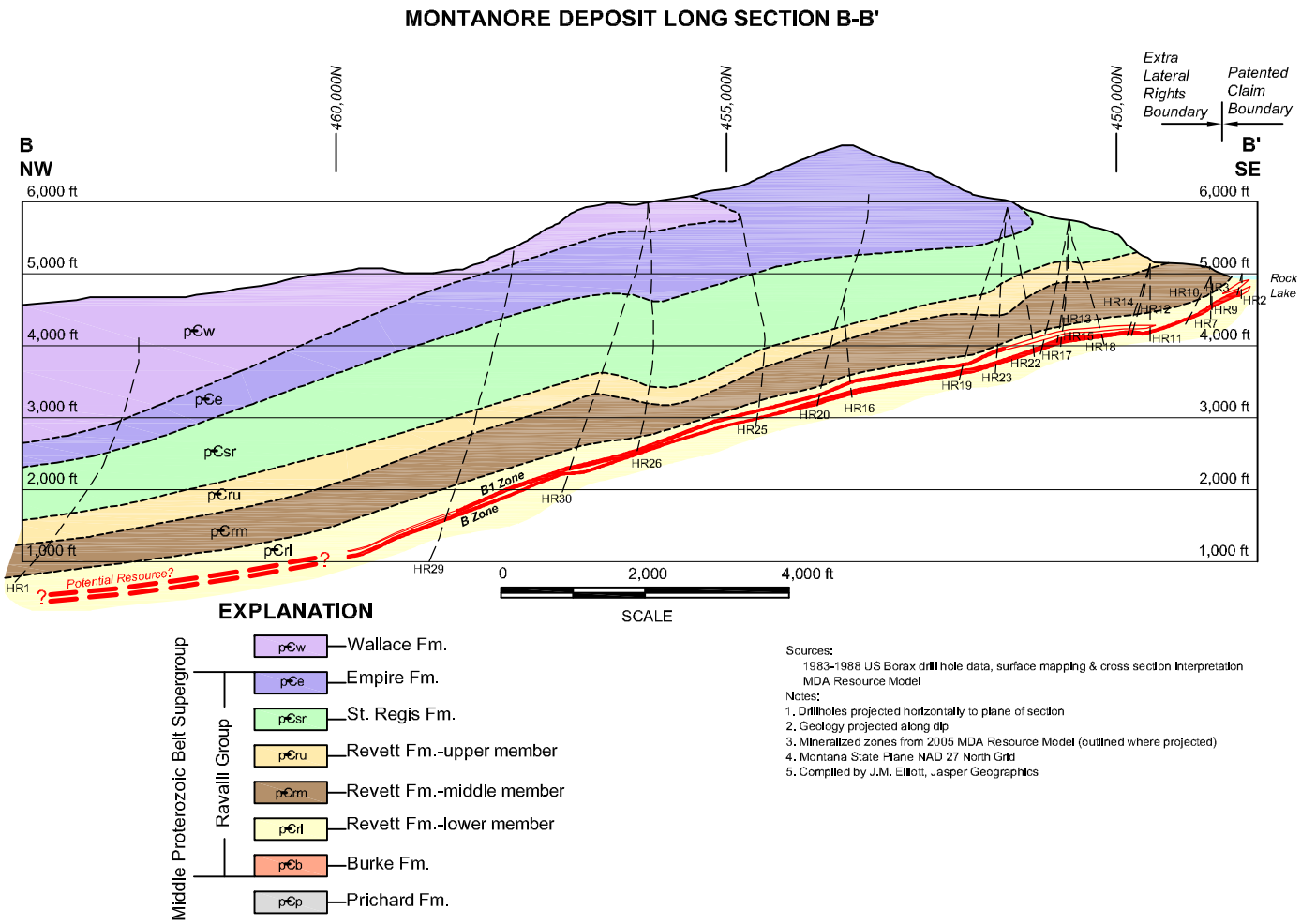


Figure 59. Geologic Cross Section-Montanore Sub-deposit

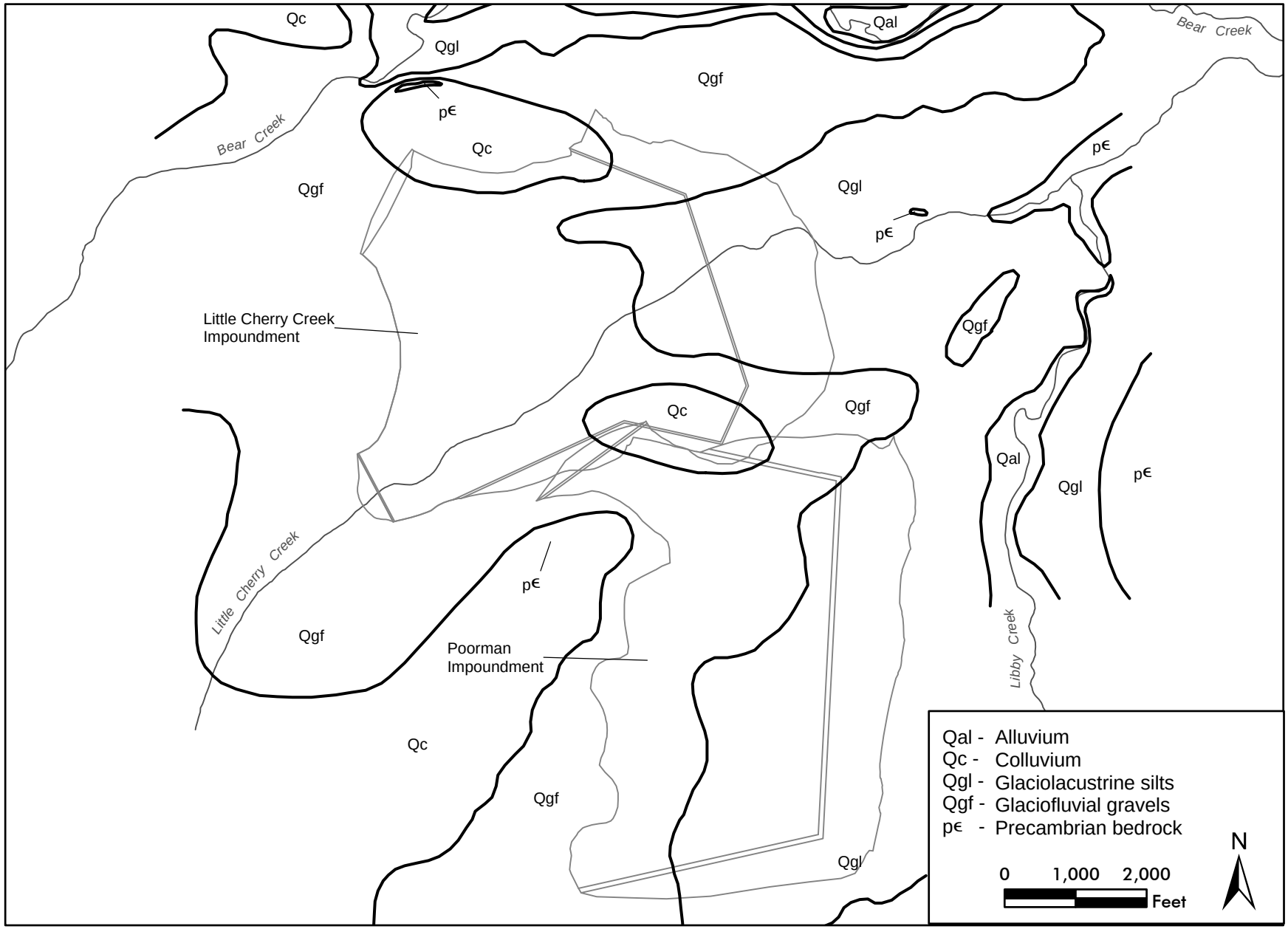


Figure 60. Geology of the Two Tailings Impoundment Areas

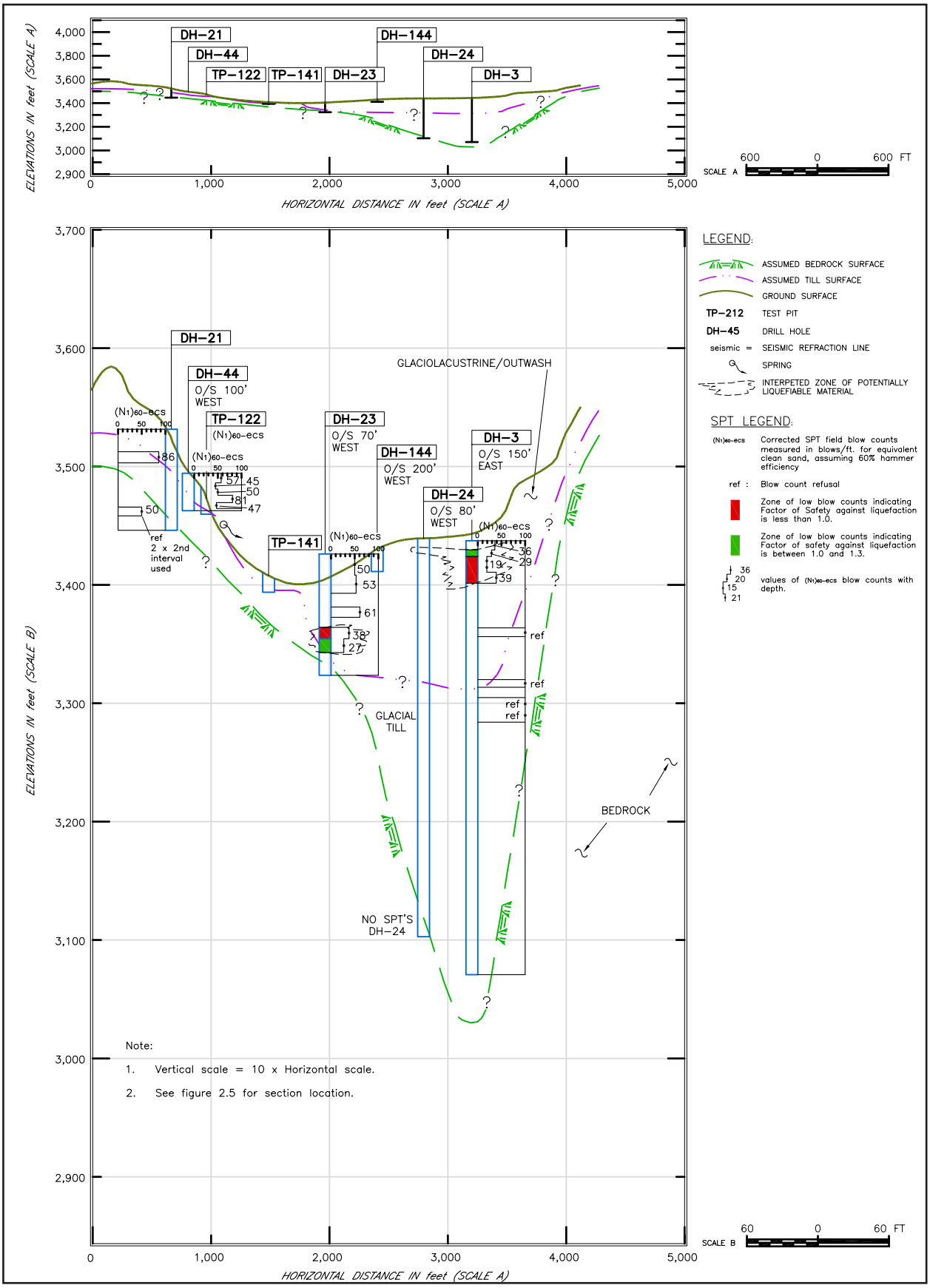
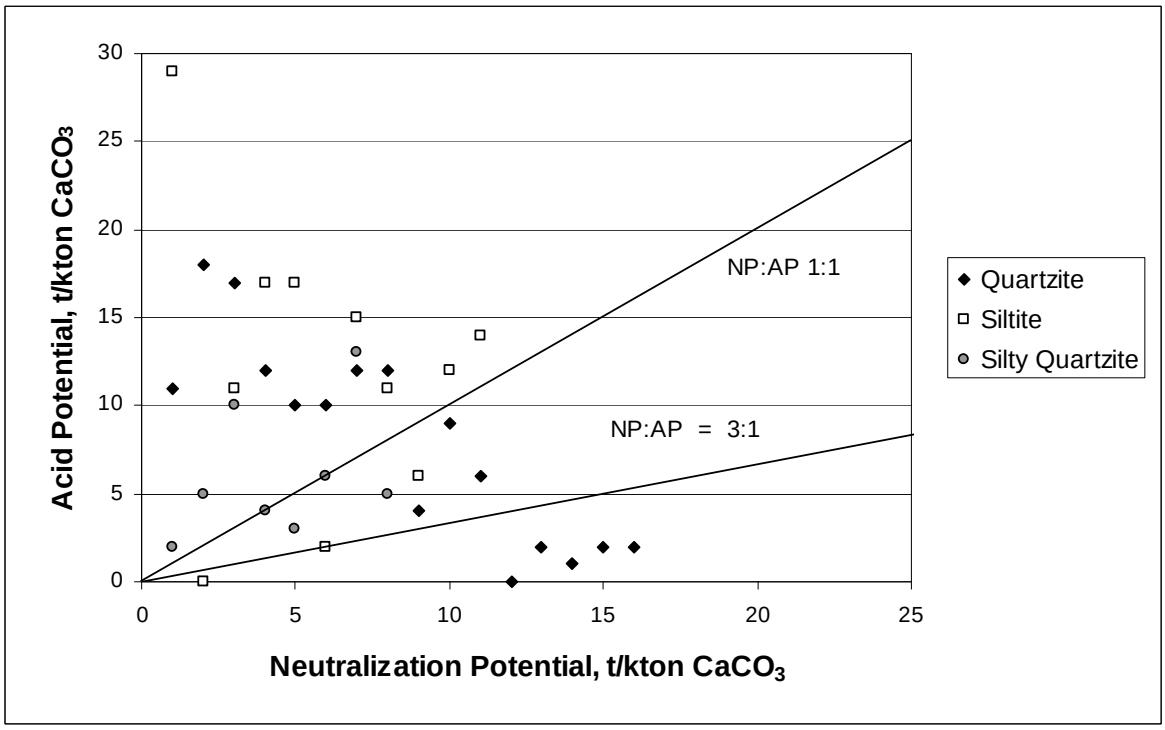


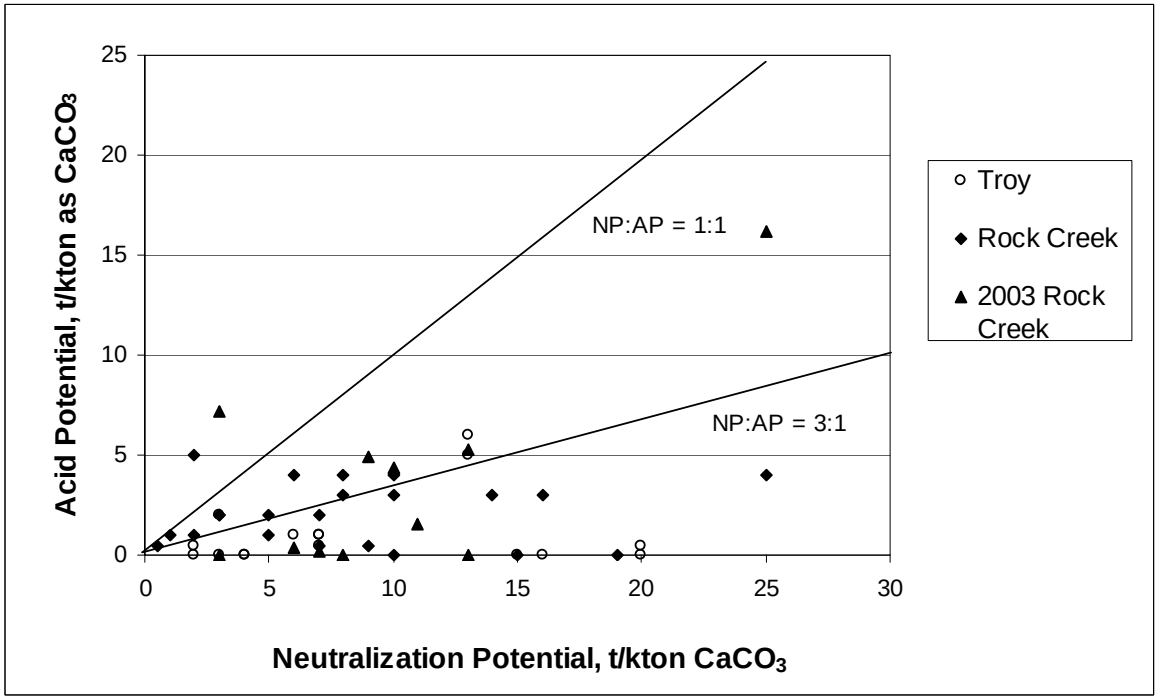
Figure 61. Geologic Cross Section of the Little Cherry Creek Tailings Impoundment Site

Figure 62. Acid Generation Potential of the Montanore Sub-Deposit Ore.



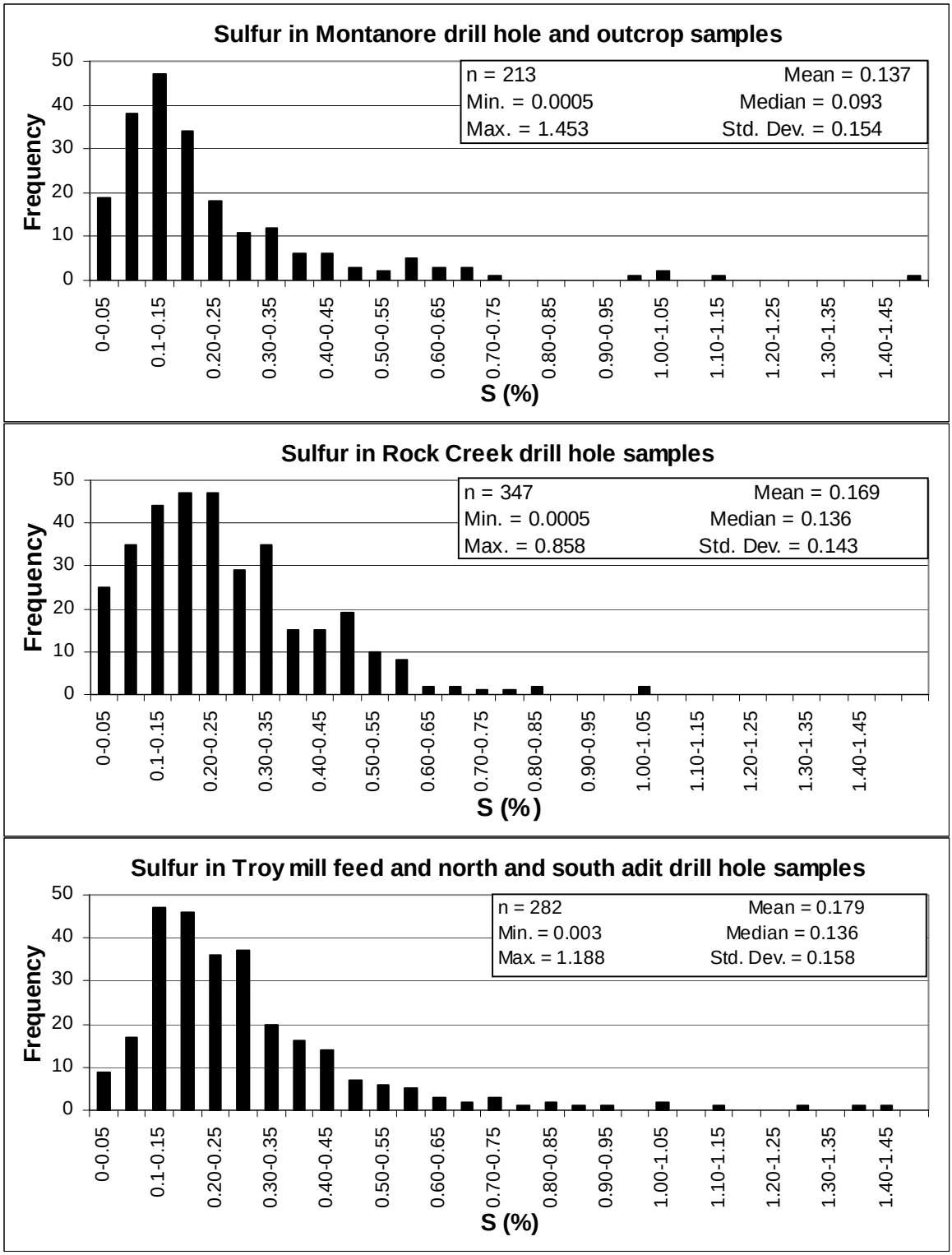
Source: Enviromin 2007

Figure 63. Acid Generation Potential of Ore, from the Rock Creek Sub-deposit and Troy Deposit.



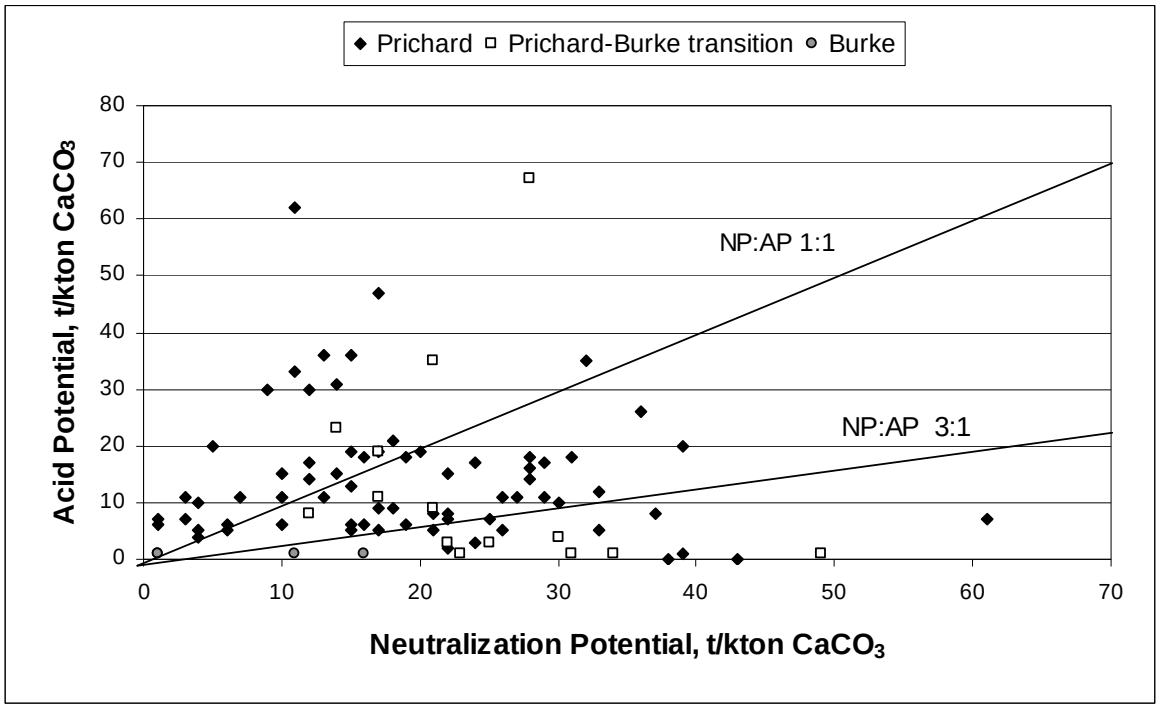
Source: Enviromin 2007

Figure 64. Distribution of Sulfide Calculated Based on Copper Assays for Montanore, Rock Creek, and Troy Deposits.



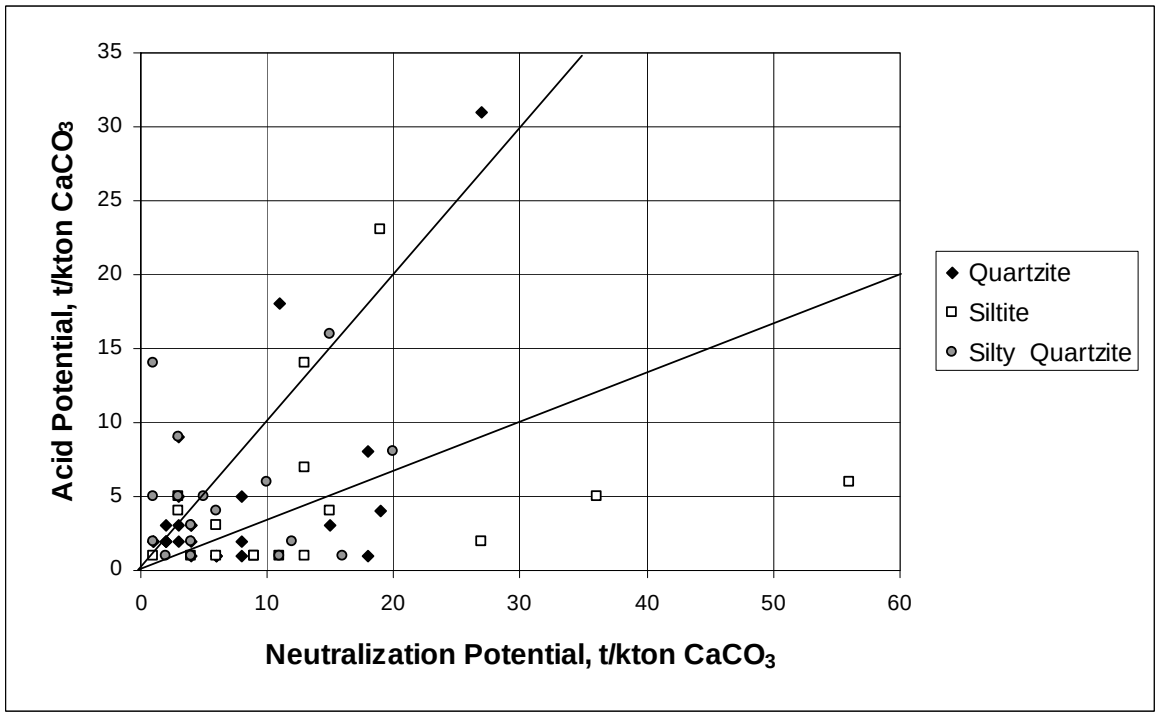
Source: Enviromin 2007

Figure 65. Acid Generation Potential of Waste Rock, Libby Adit, Montanore.



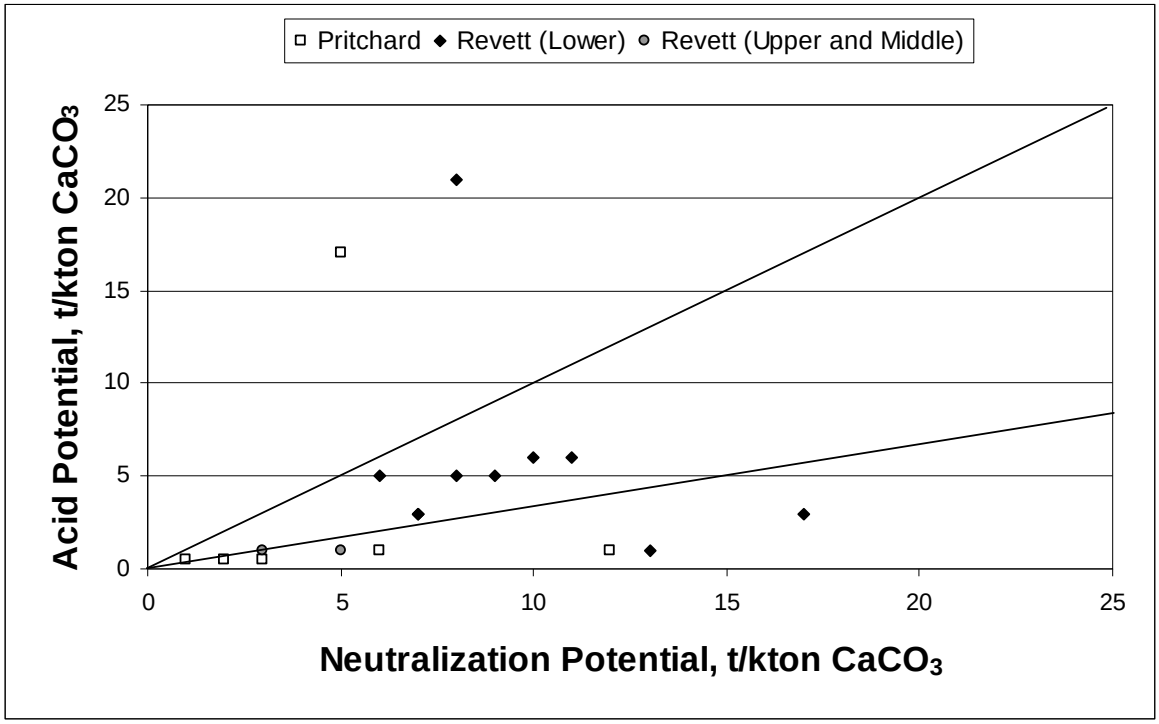
Source: Enviromin 2007.

Figure 66. Acid Generation Potential of Rock Creek and Troy Revett Waste Rock.



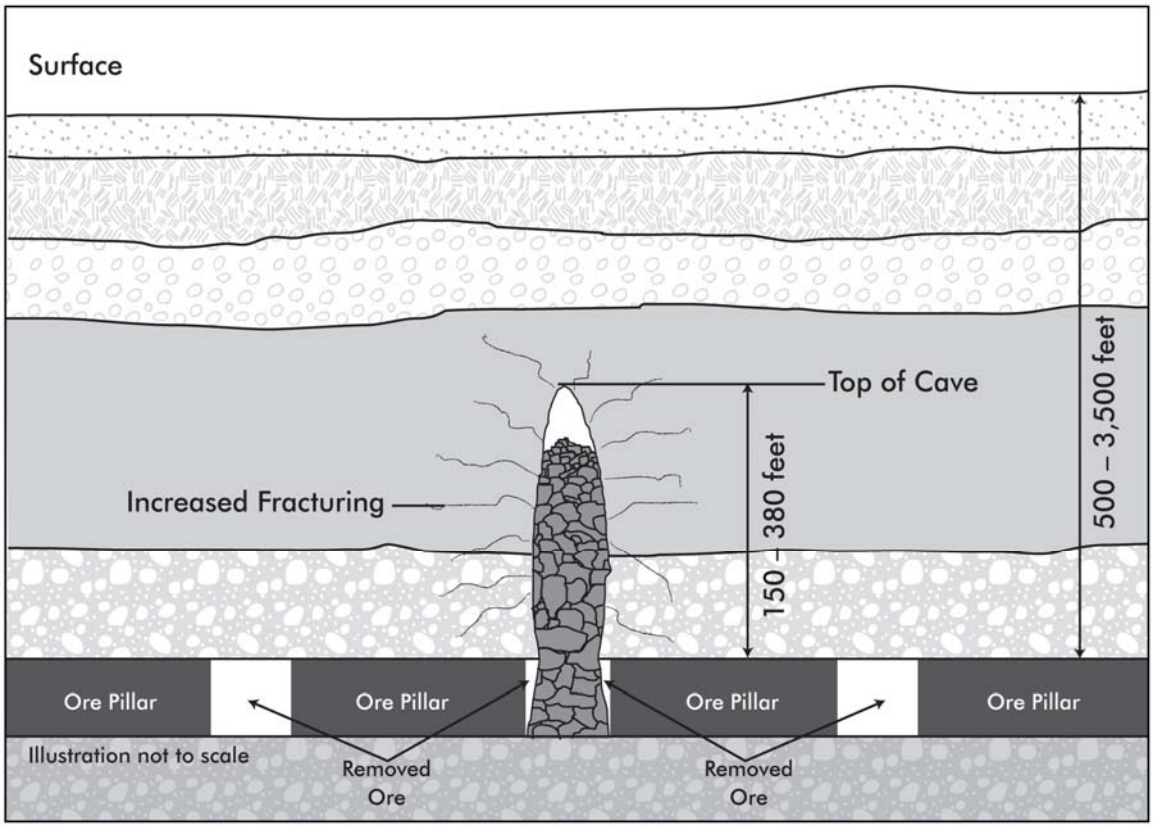
Source: Enviromin 2007.

Figure 67. Acid Generation Potential of Rock Creek and Troy Waste Rock Samples by Formation.



Source: Enviromin 2007
Note: sulfide adjusted to account for acid consuming copper sulfide minerals.

Figure 68. Typical Cross Sectional View of Chimney Subsidence.



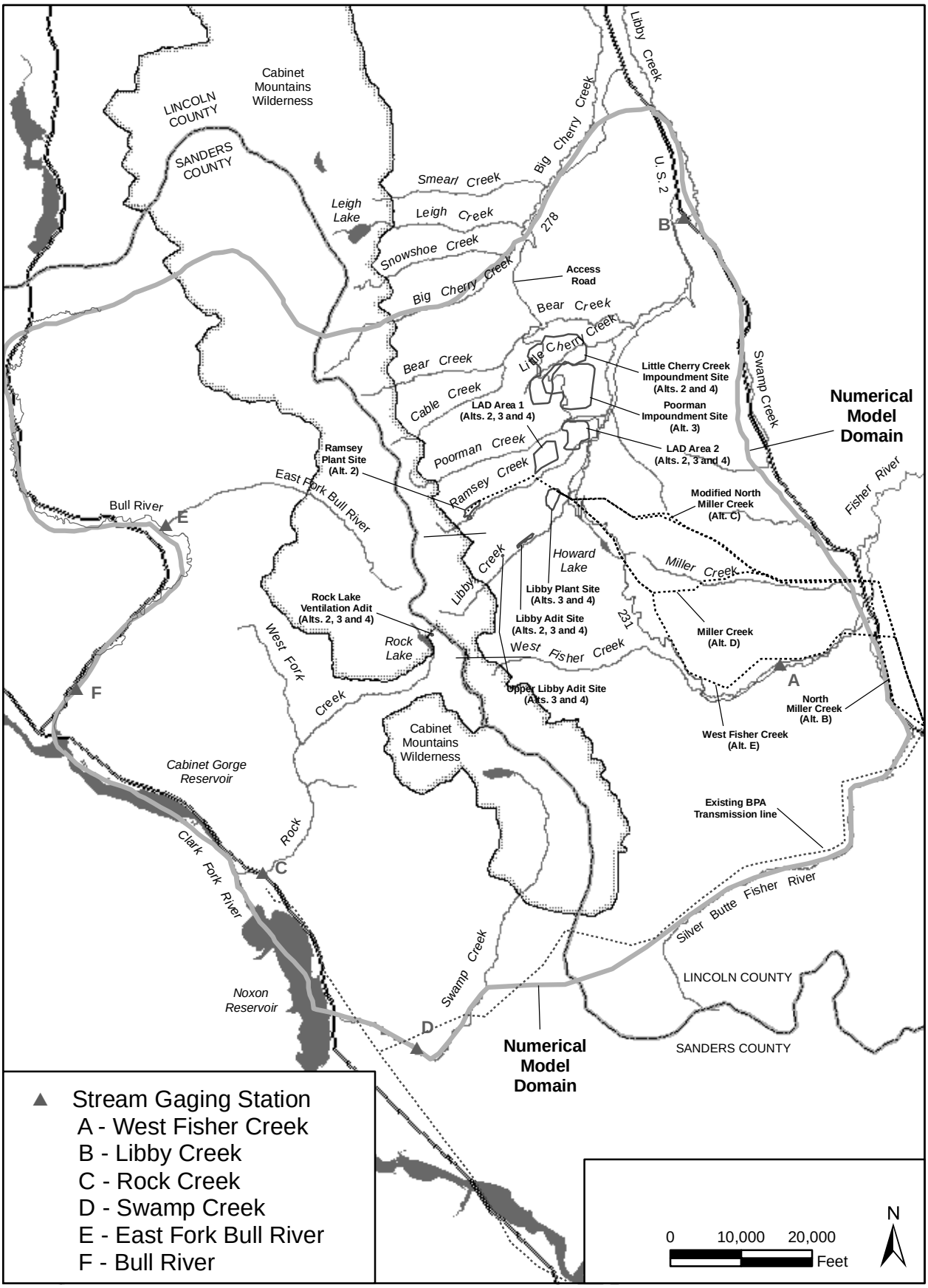


Figure 69. Numerical Model Domain and Project Area Location

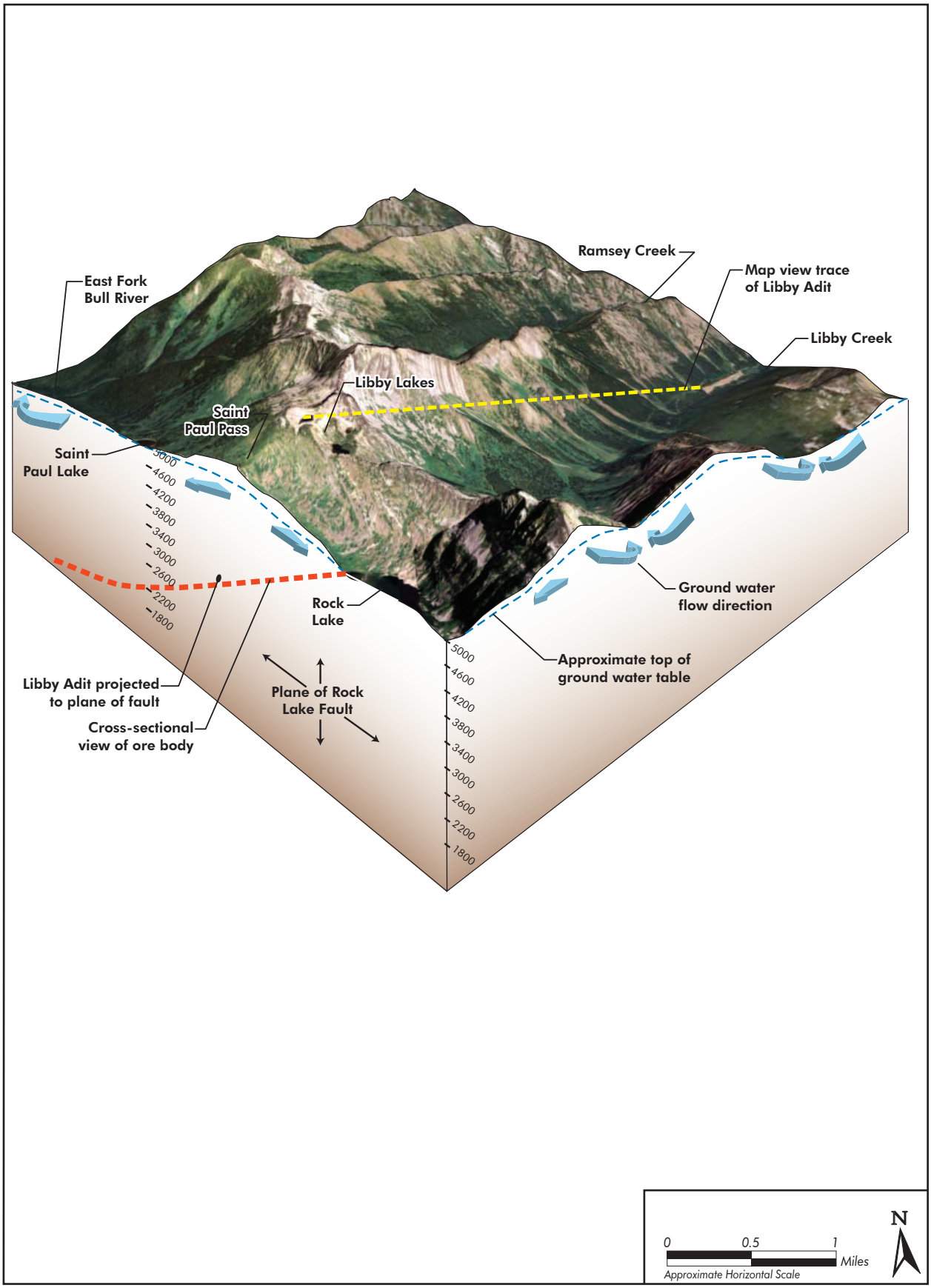


Figure 70. Agencies' Three Dimensional Conceptual Model of the Montanore Mine Area Hydrogeology

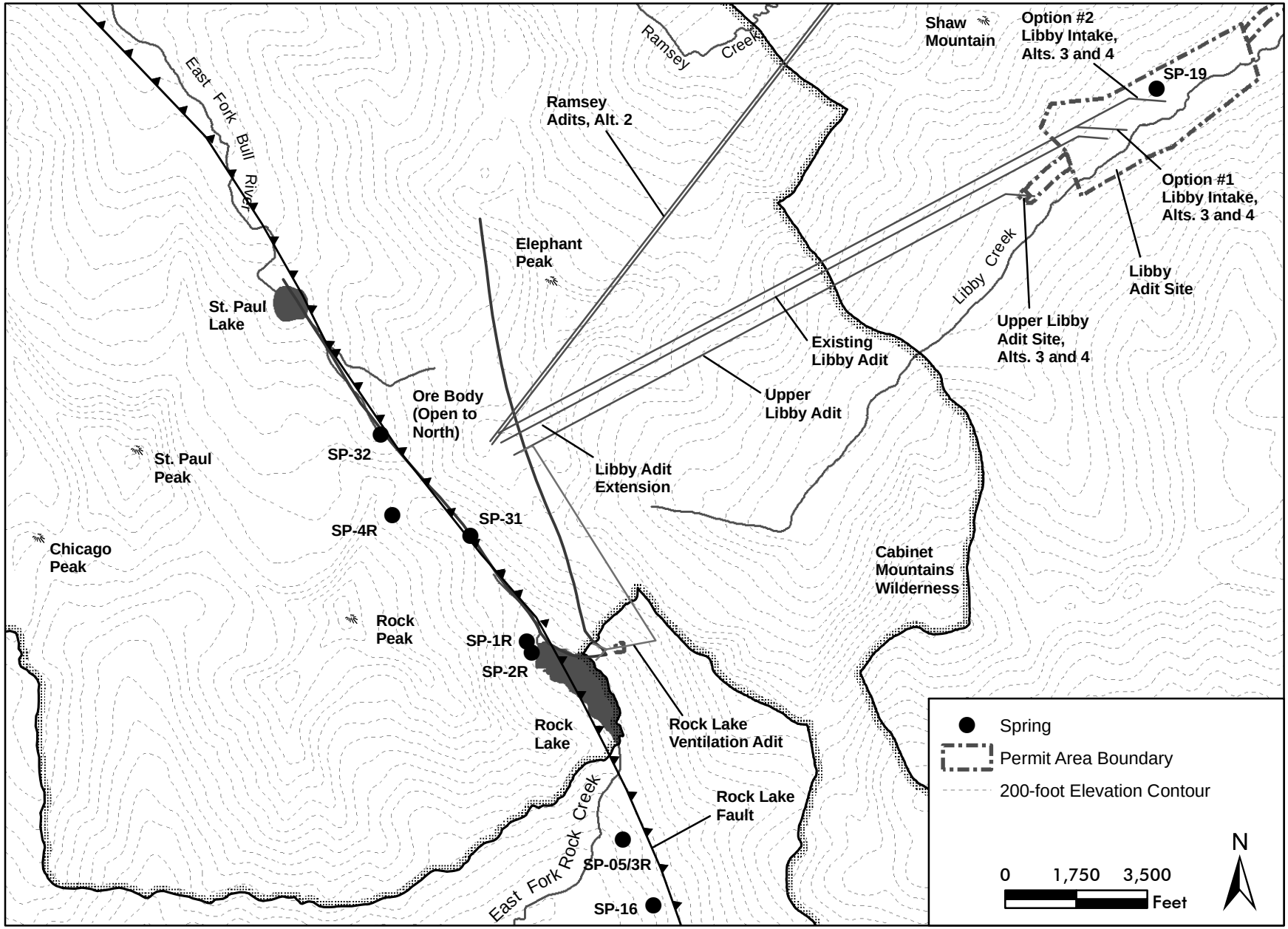


Figure 71. Identified Springs in the Mine Area

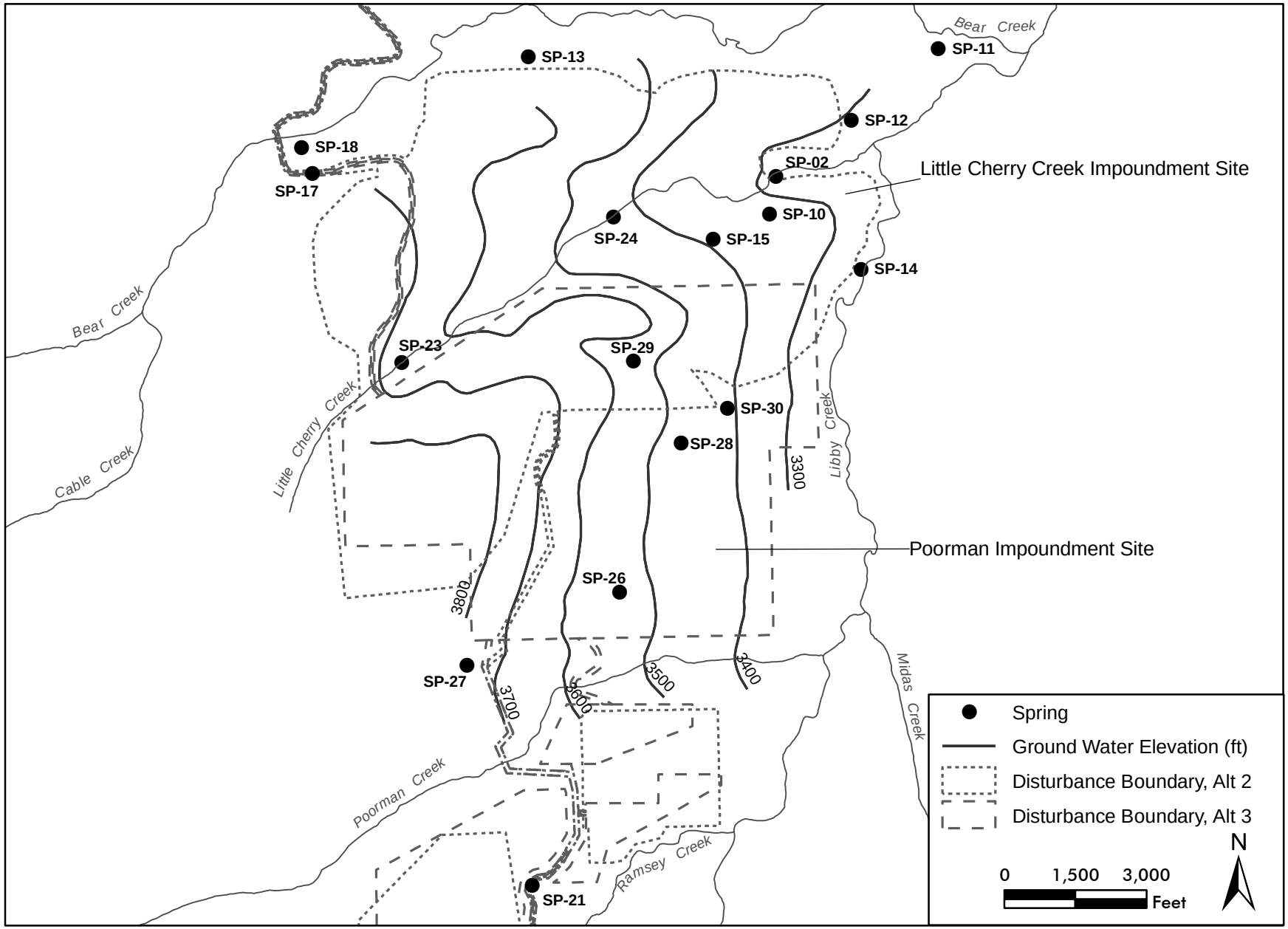


Figure 72. Identified Springs and Ground Water Levels in the Tailings Impoundment Sites

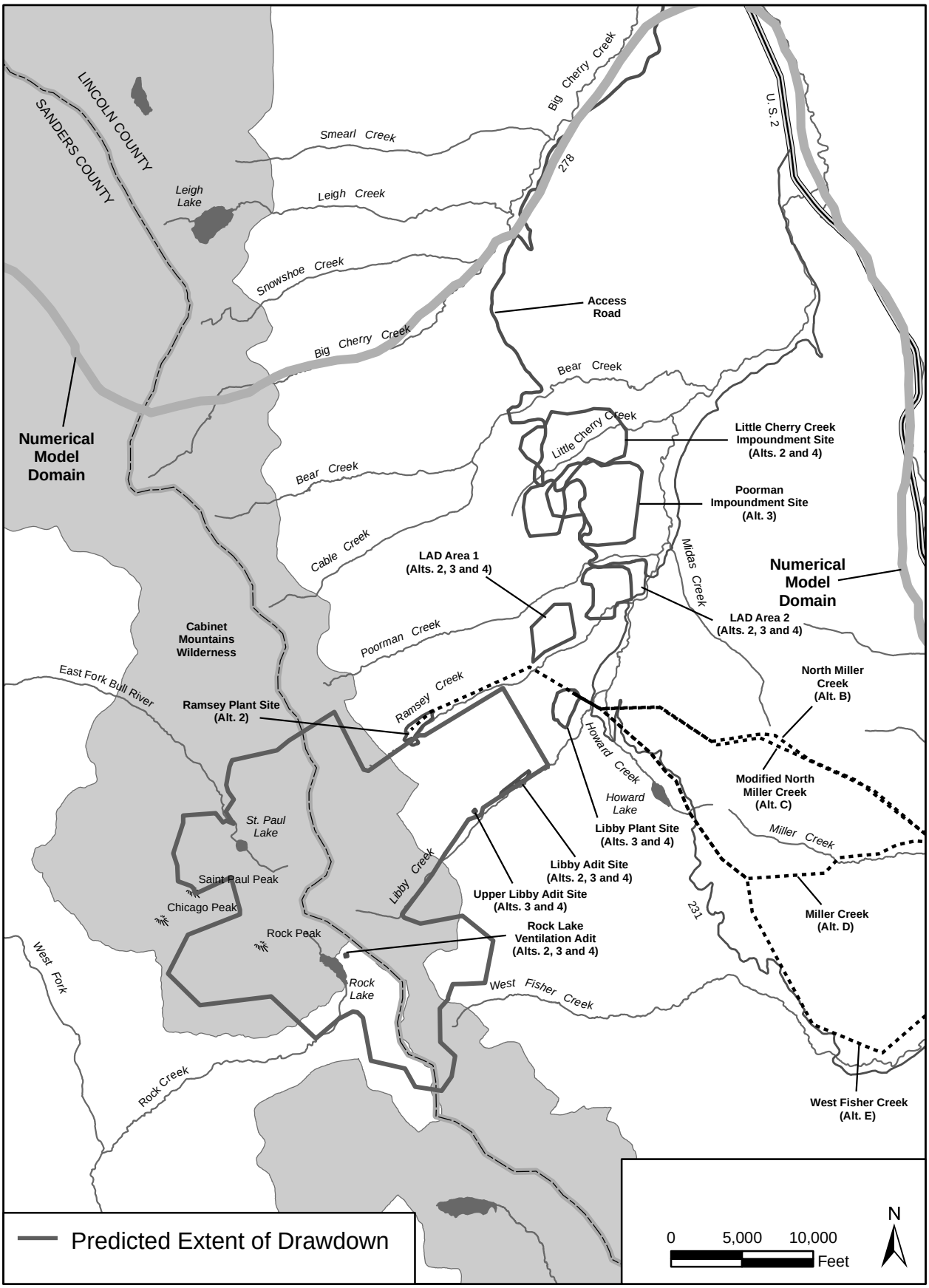


Figure 73. Predicted Area of Ground Water Drawdown During Mining

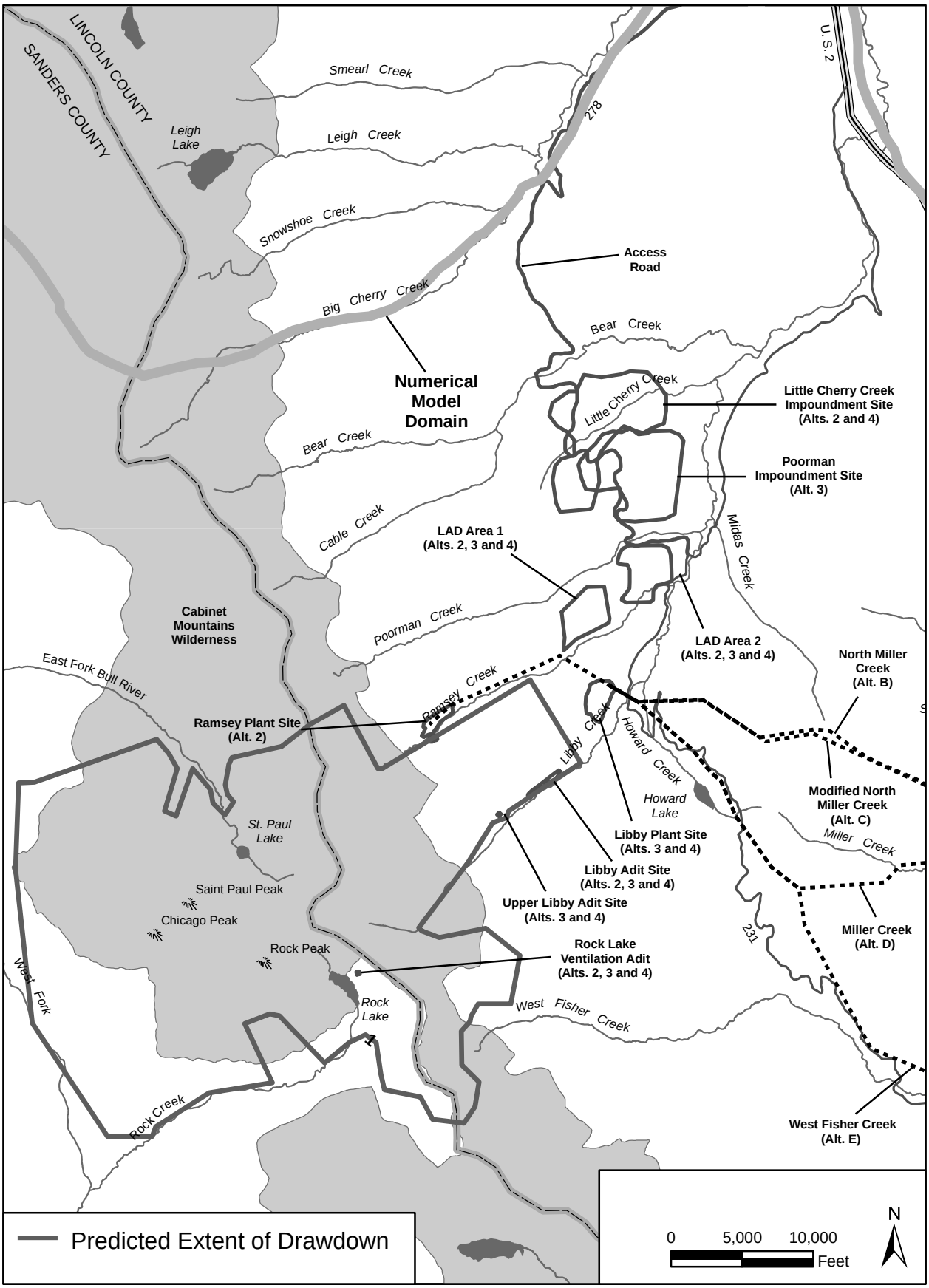


Figure 74. Predicted Area of Cumulative Ground Water Drawdown During Mining

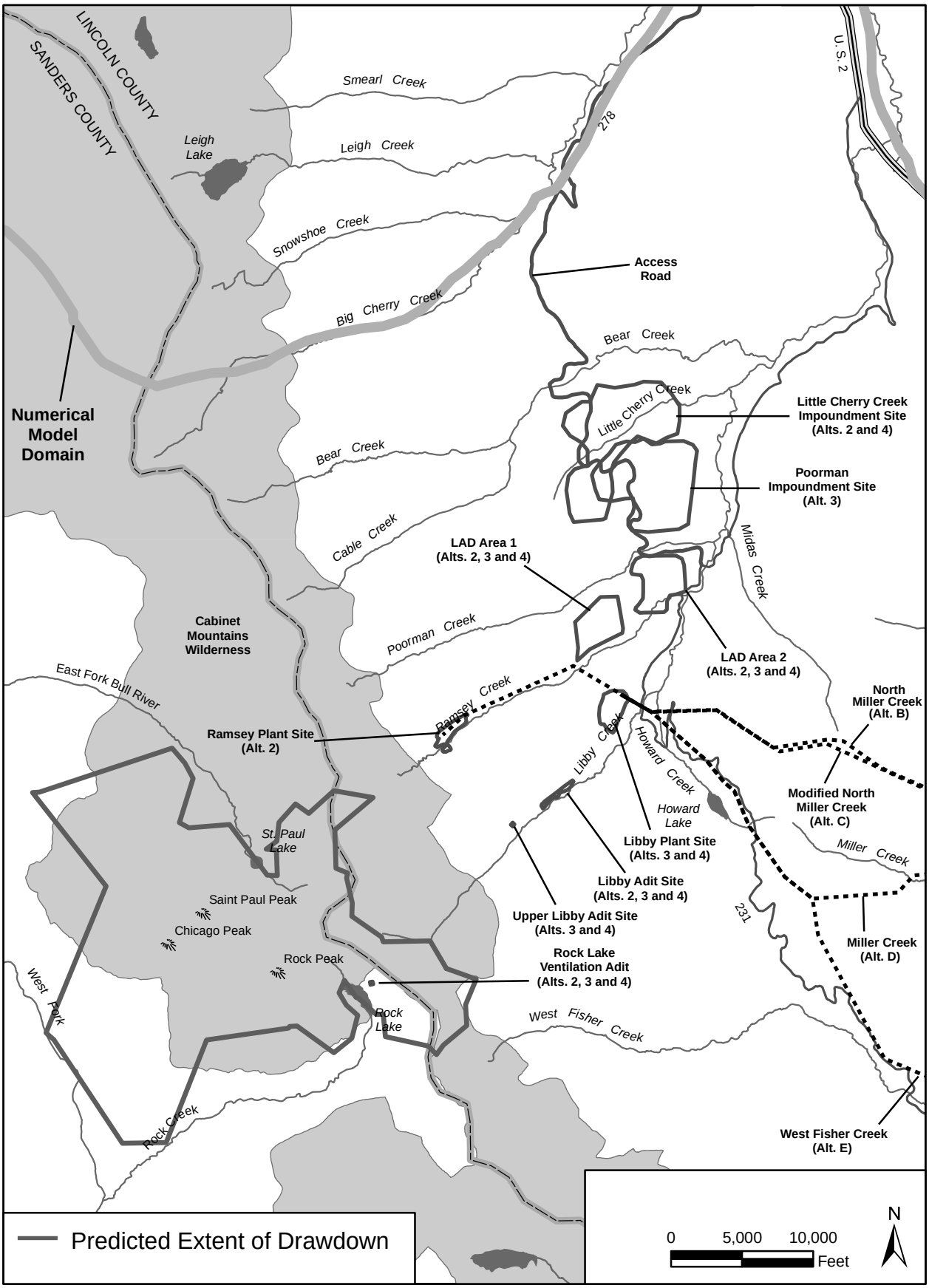


Figure 75. Predicted Area of Cumulative Ground Water Drawdown Post-mining

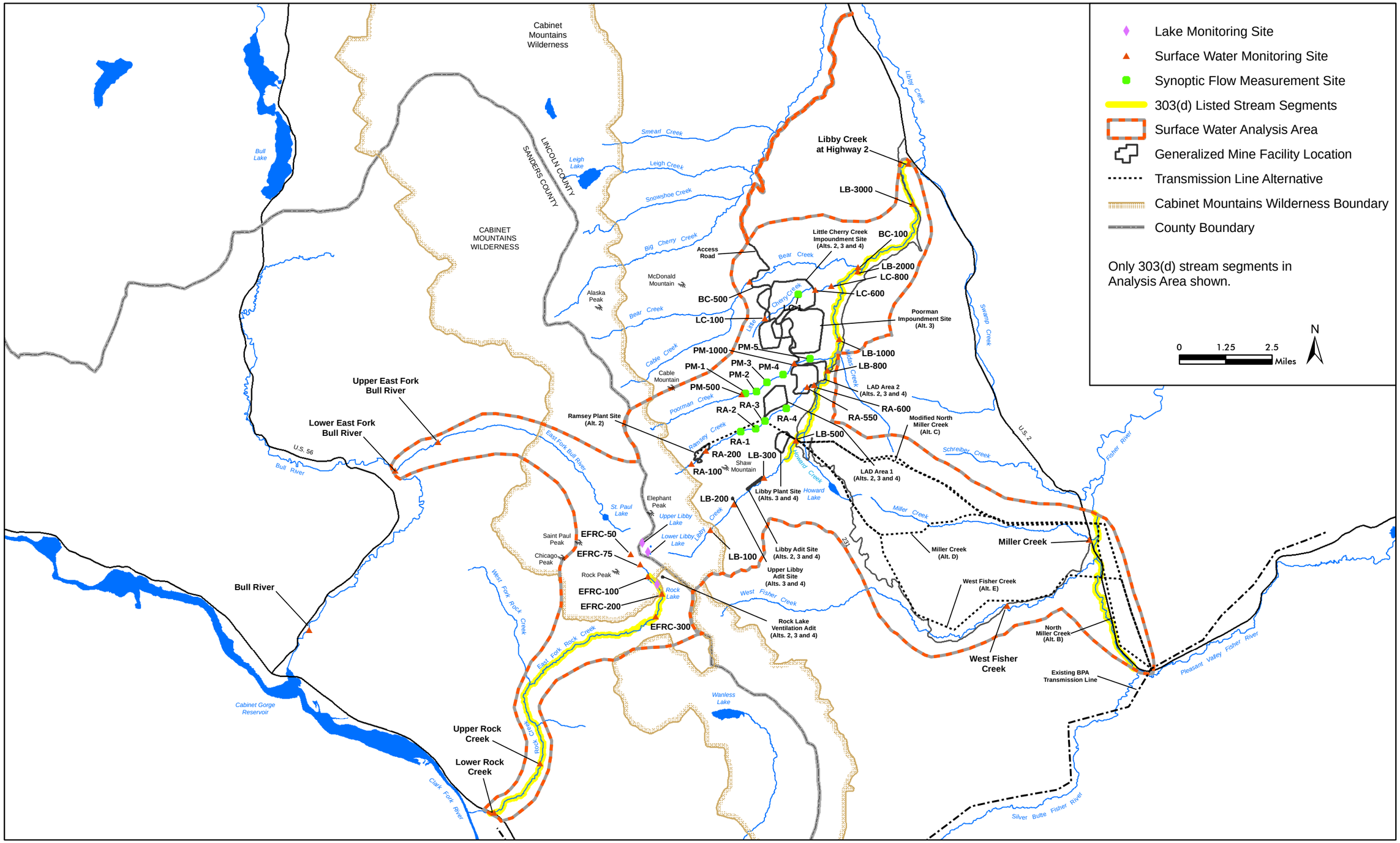


Figure 76. Surface Water Resources in the Analysis Area

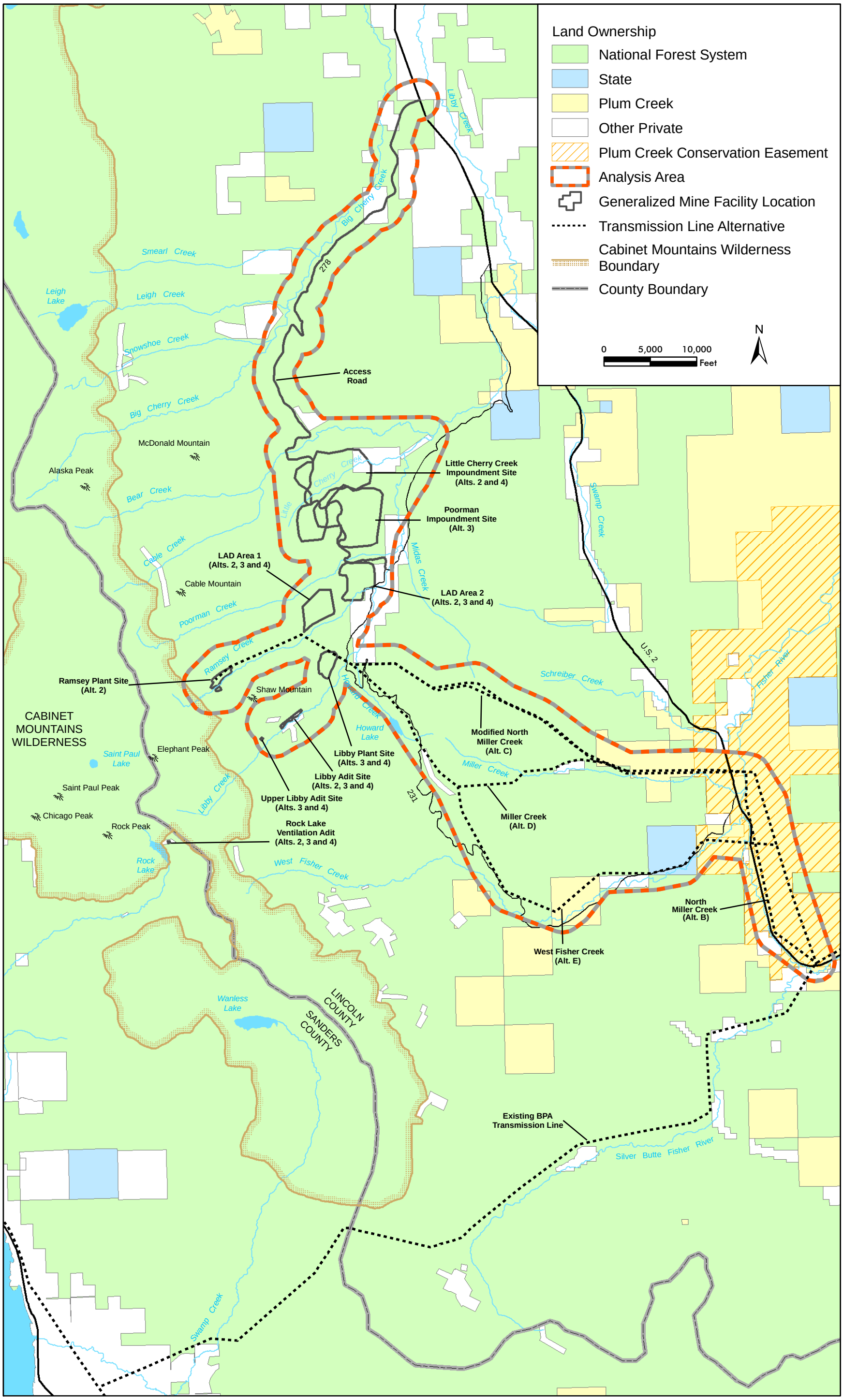


Figure 77. Land Ownership in the Analysis Area

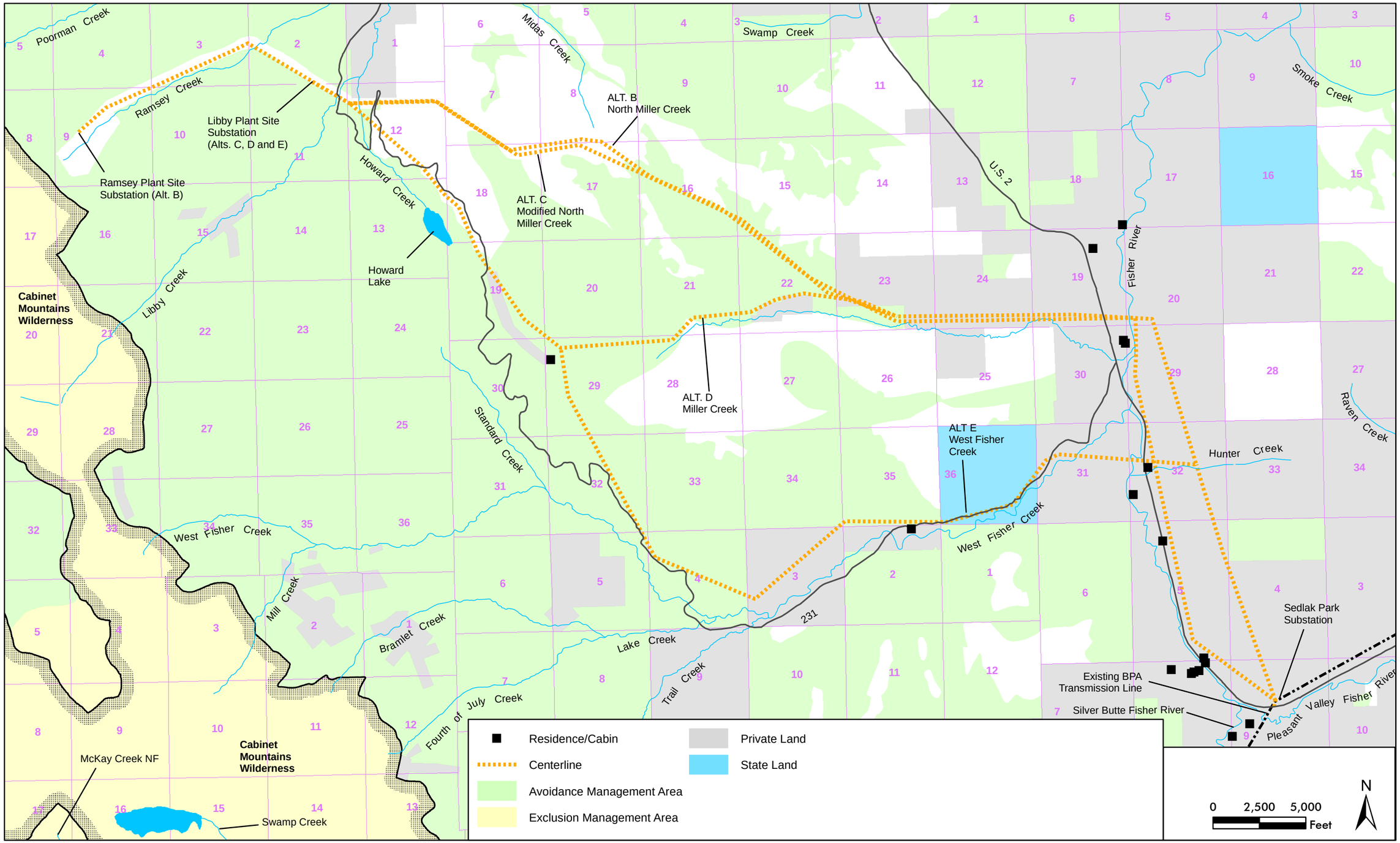


Figure 78. Residences, Corridor Exclusion Management Areas, and Corridor Avoidance Management Areas Along Transmission Line Alternatives

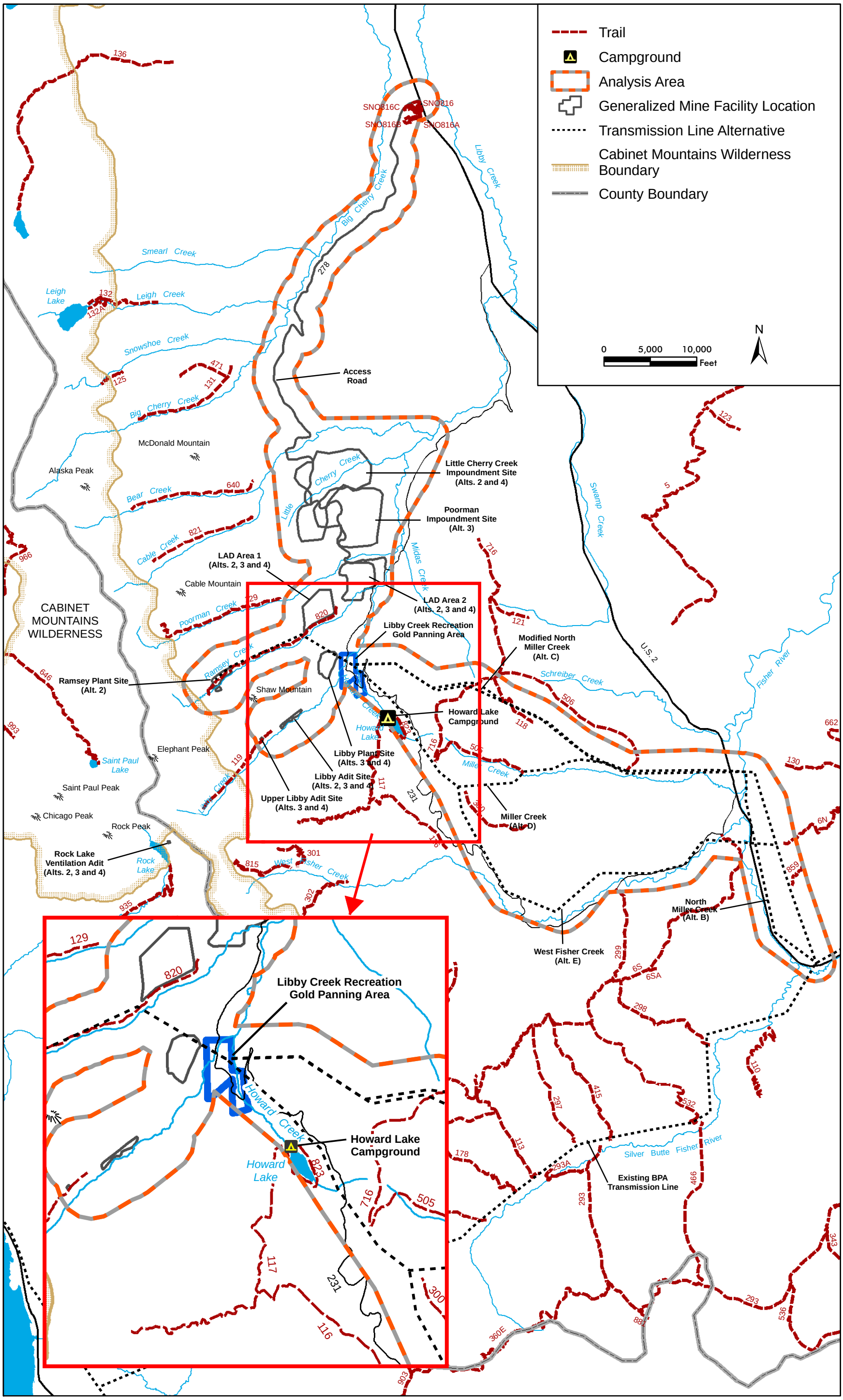


Figure 79. Key Recreation Resources in the Analysis Area

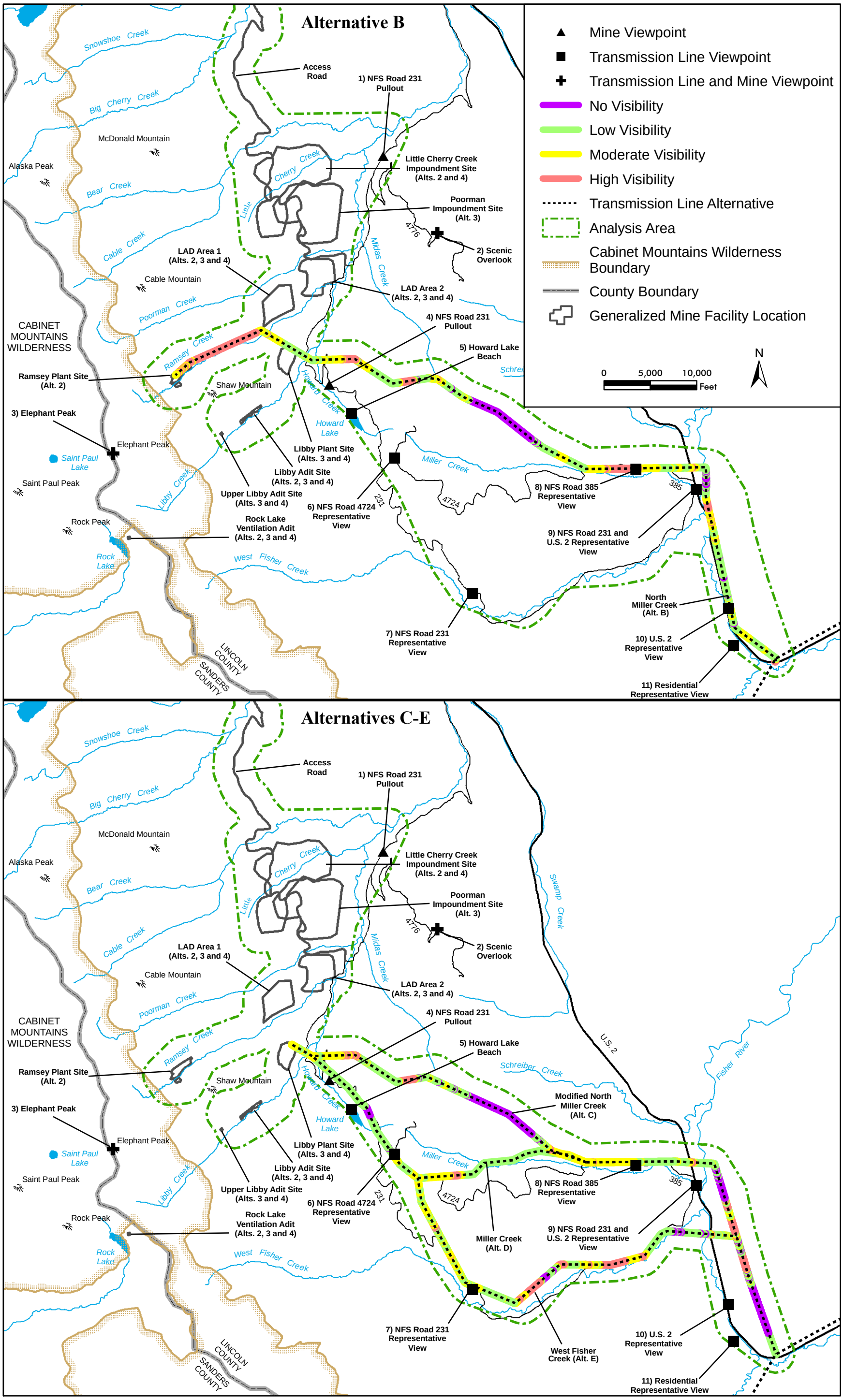


Figure 80. Transmission Line Segments Visible from KOPs, Roads and the CMW

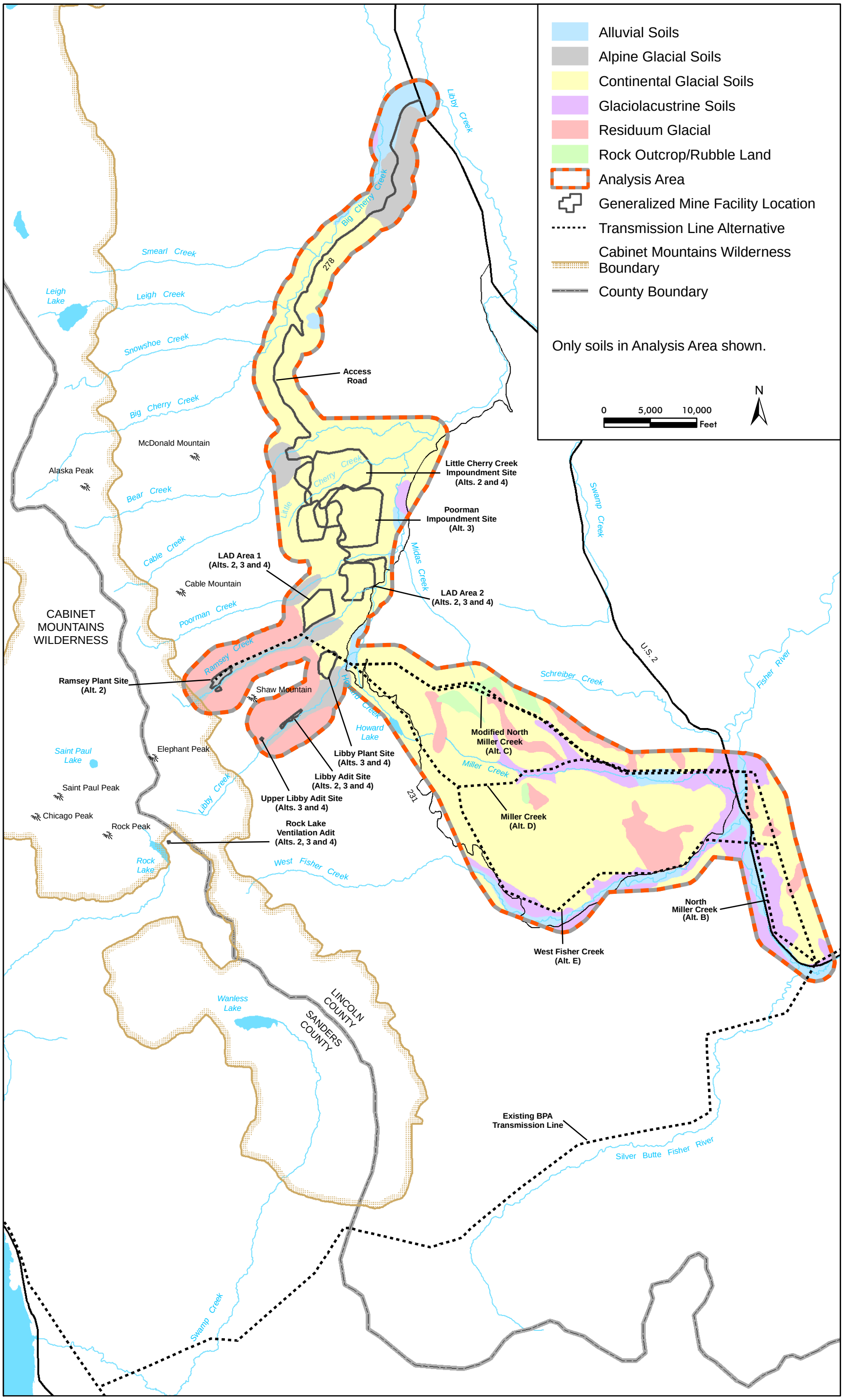


Figure 81. General Soil Types in the Analysis Area

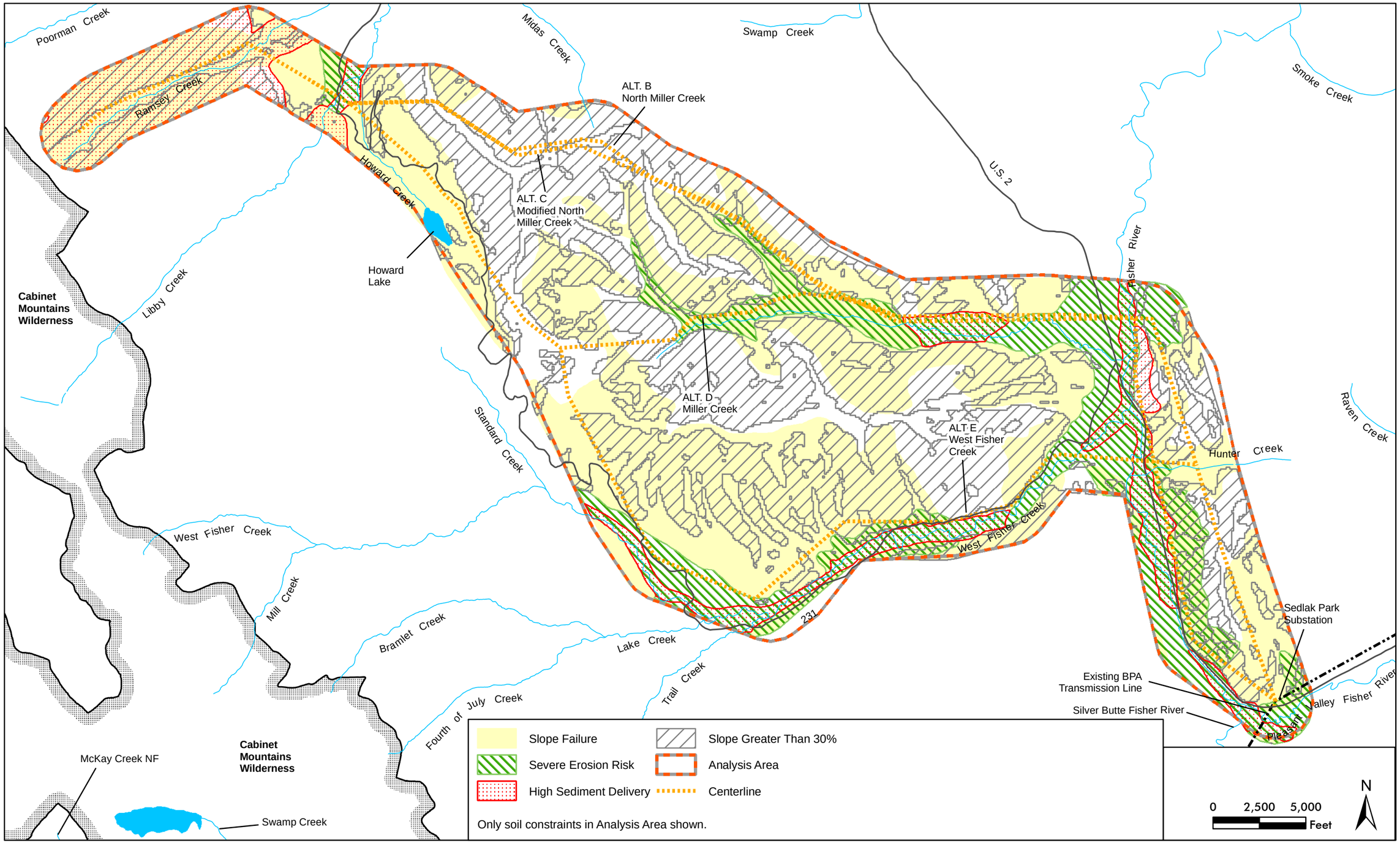


Figure 82. Soil Constraints Along Transmission Line Alternatives

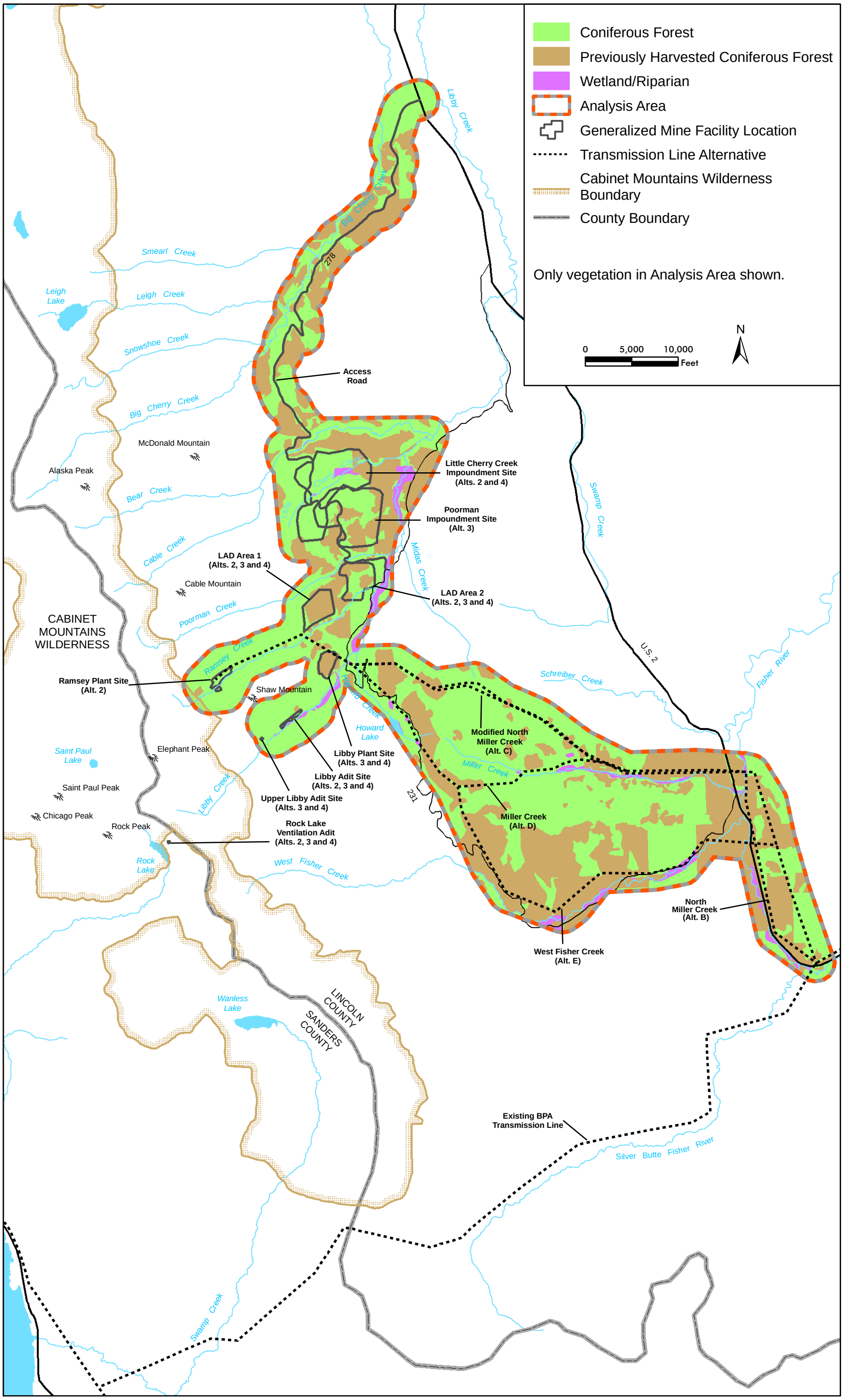


Figure 83. Vegetation Communities in the Analysis Area

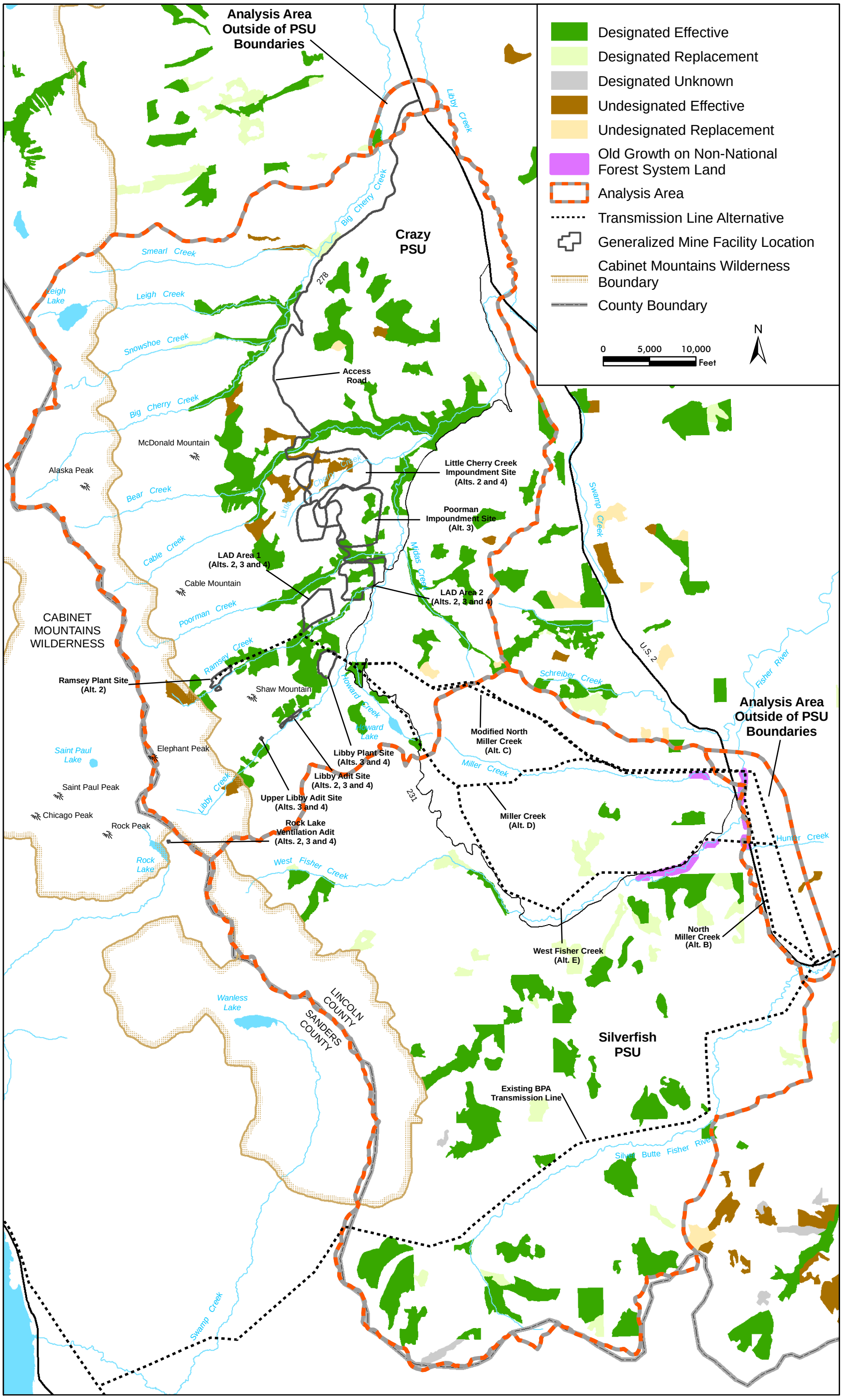


Figure 84. Old Growth Forest in the Analysis Area

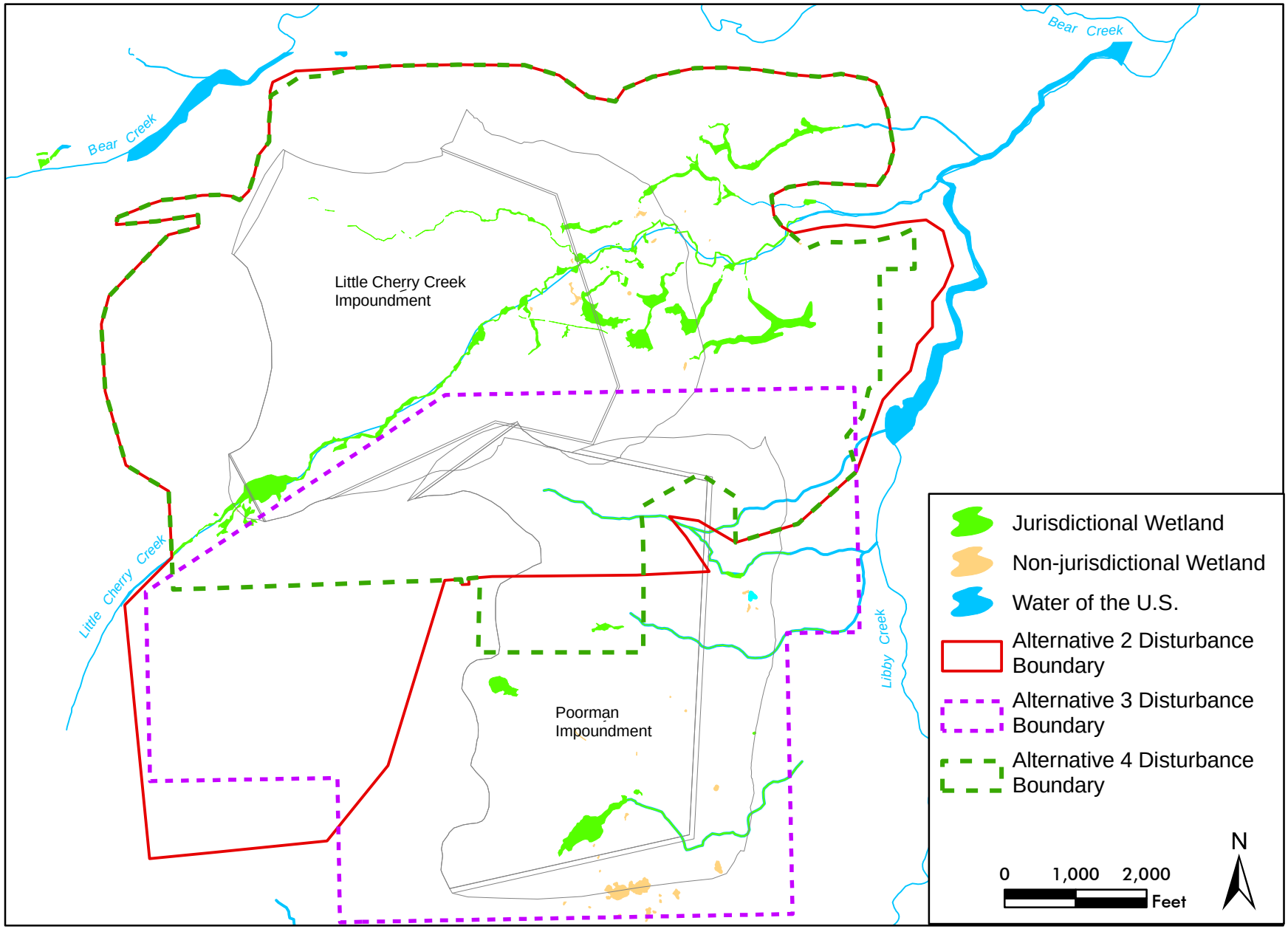


Figure 85. Wetlands in the Two Tailings Impoundment Sites

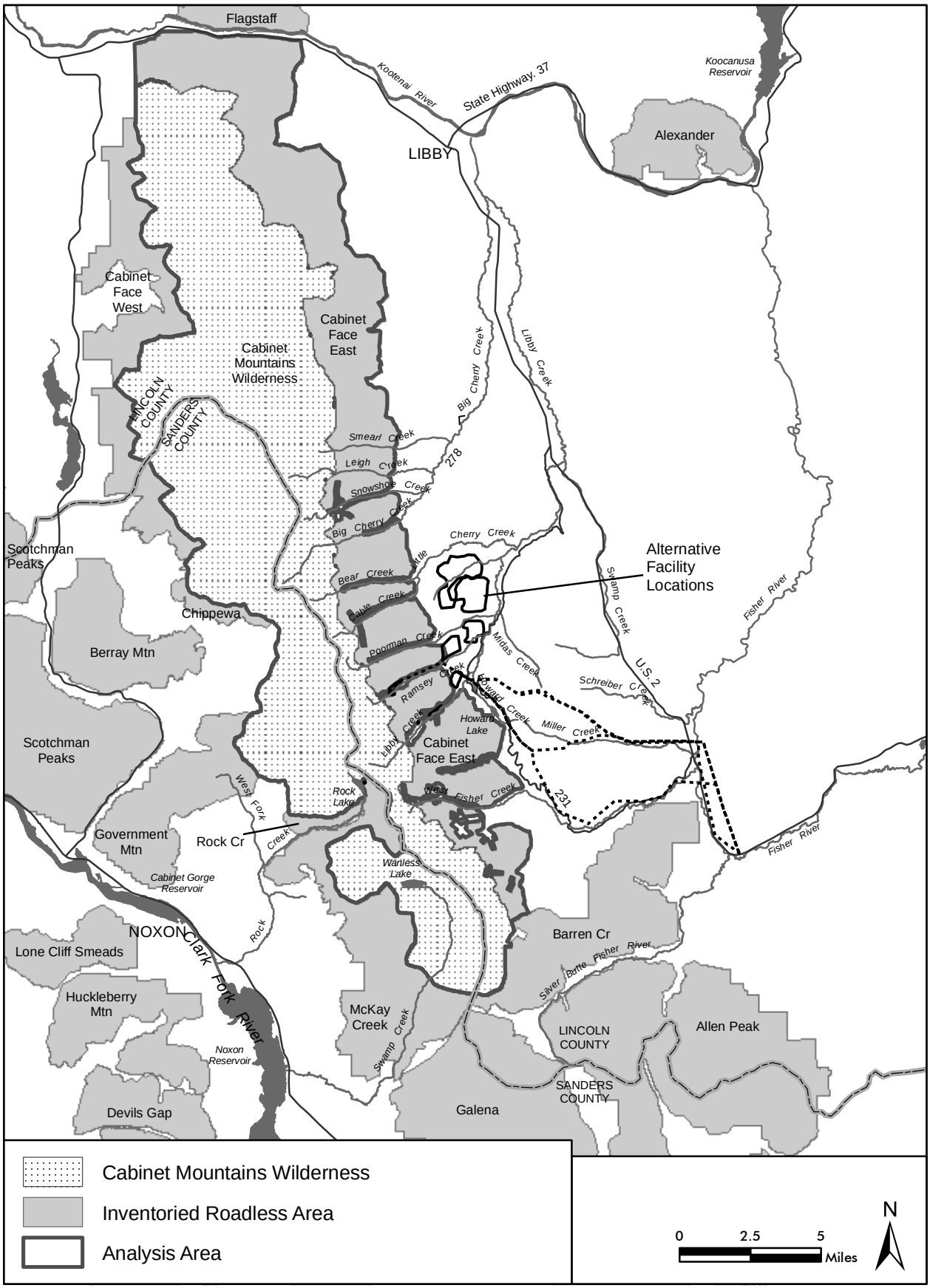


Figure 86. Cabinet Mountains Wilderness and the Cabinet Face East IRA

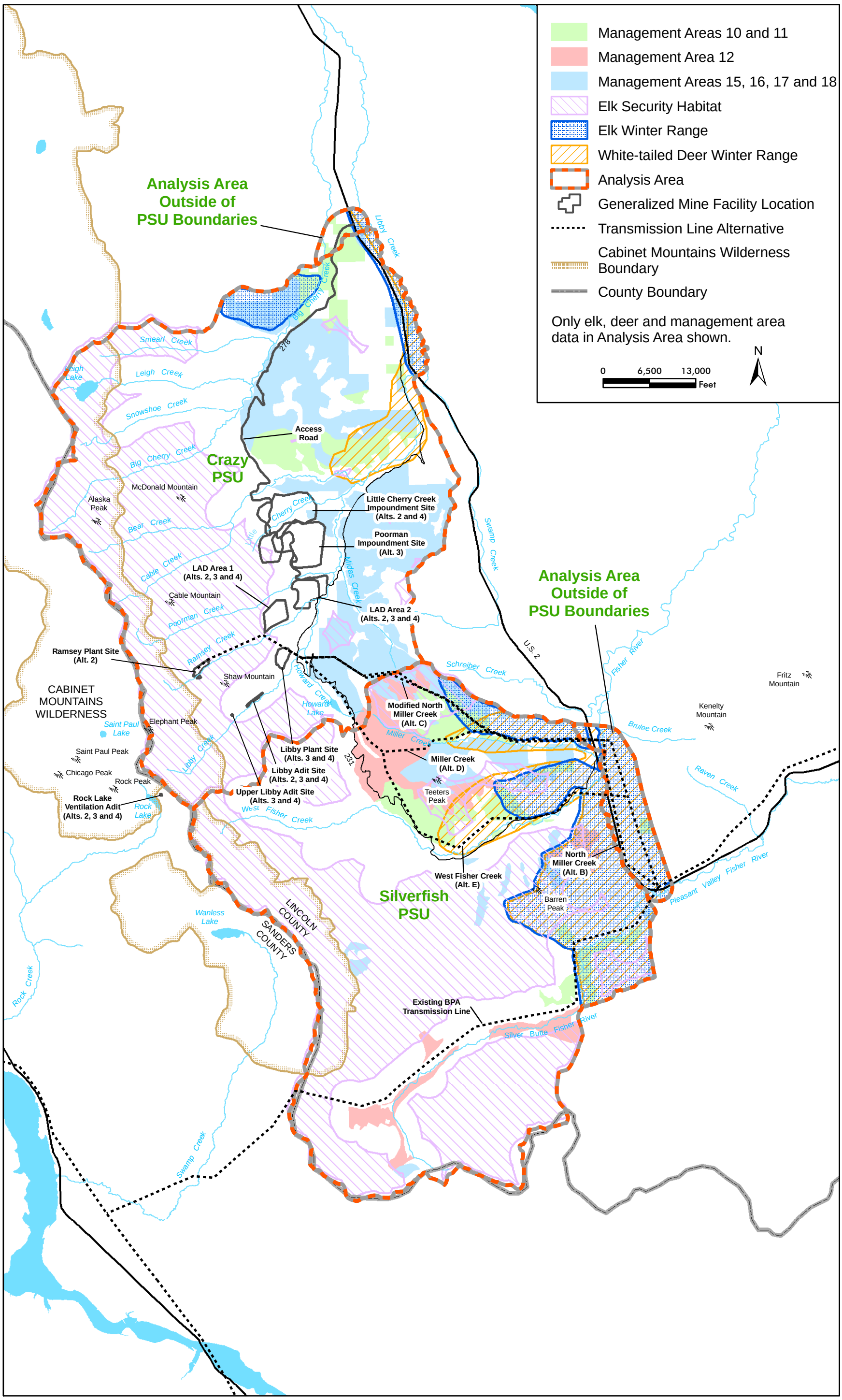


Figure 87. Elk and White-tailed Deer Habitat in the Analysis Area

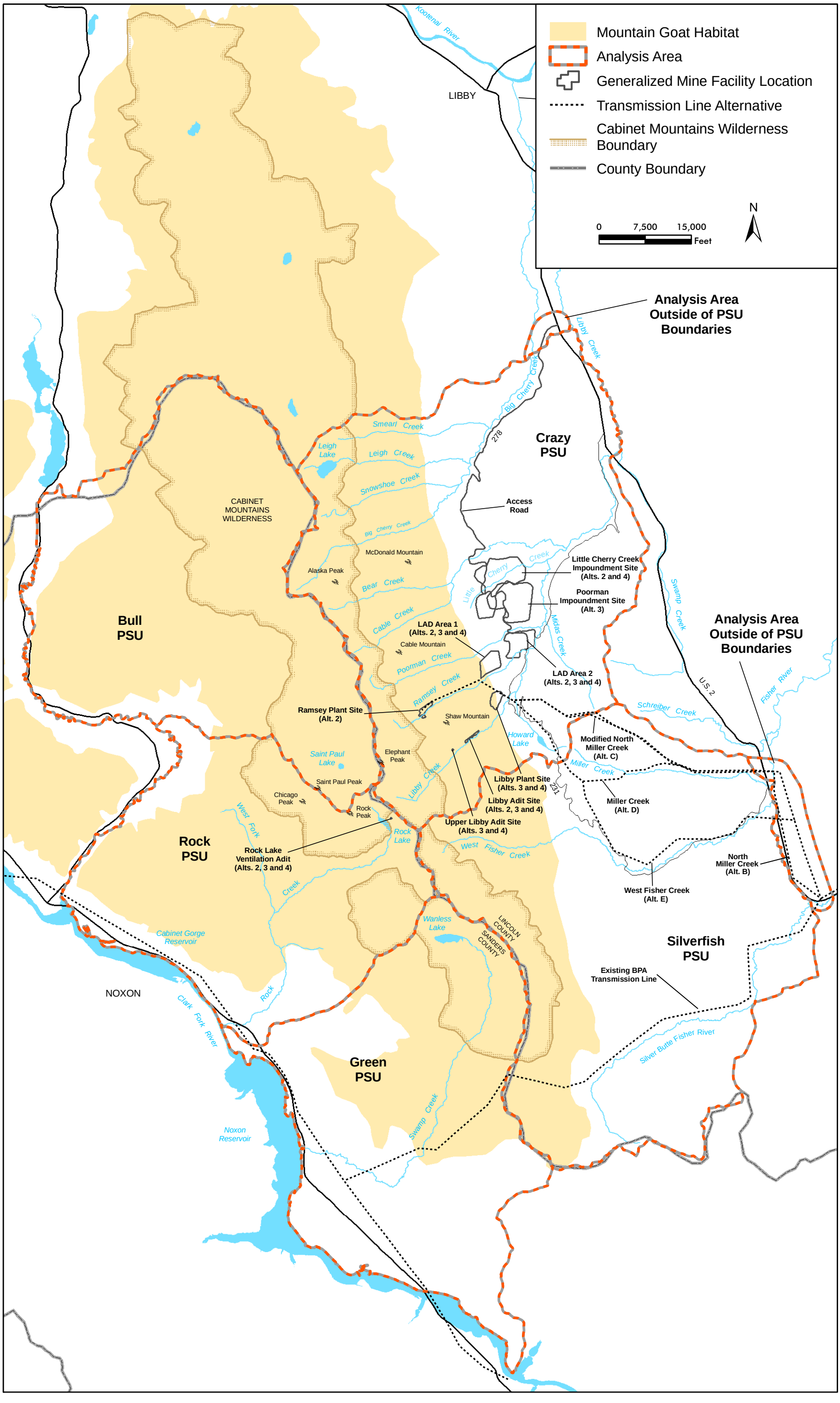


Figure 88. Mountain Goat Habitat in the Analysis Area

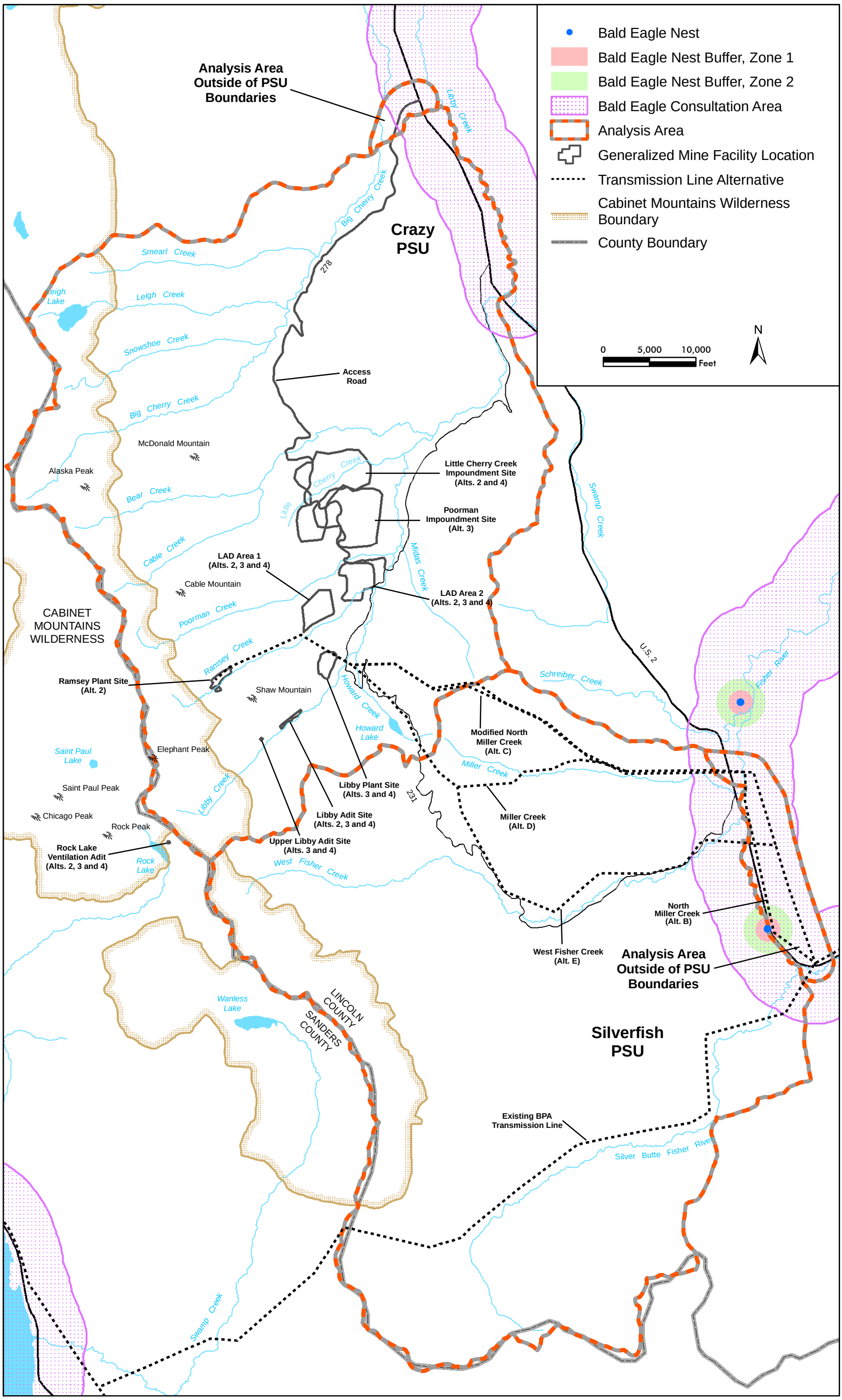


Figure 89. Bald Eagle Habitat Potentially Affected in the Analysis Area

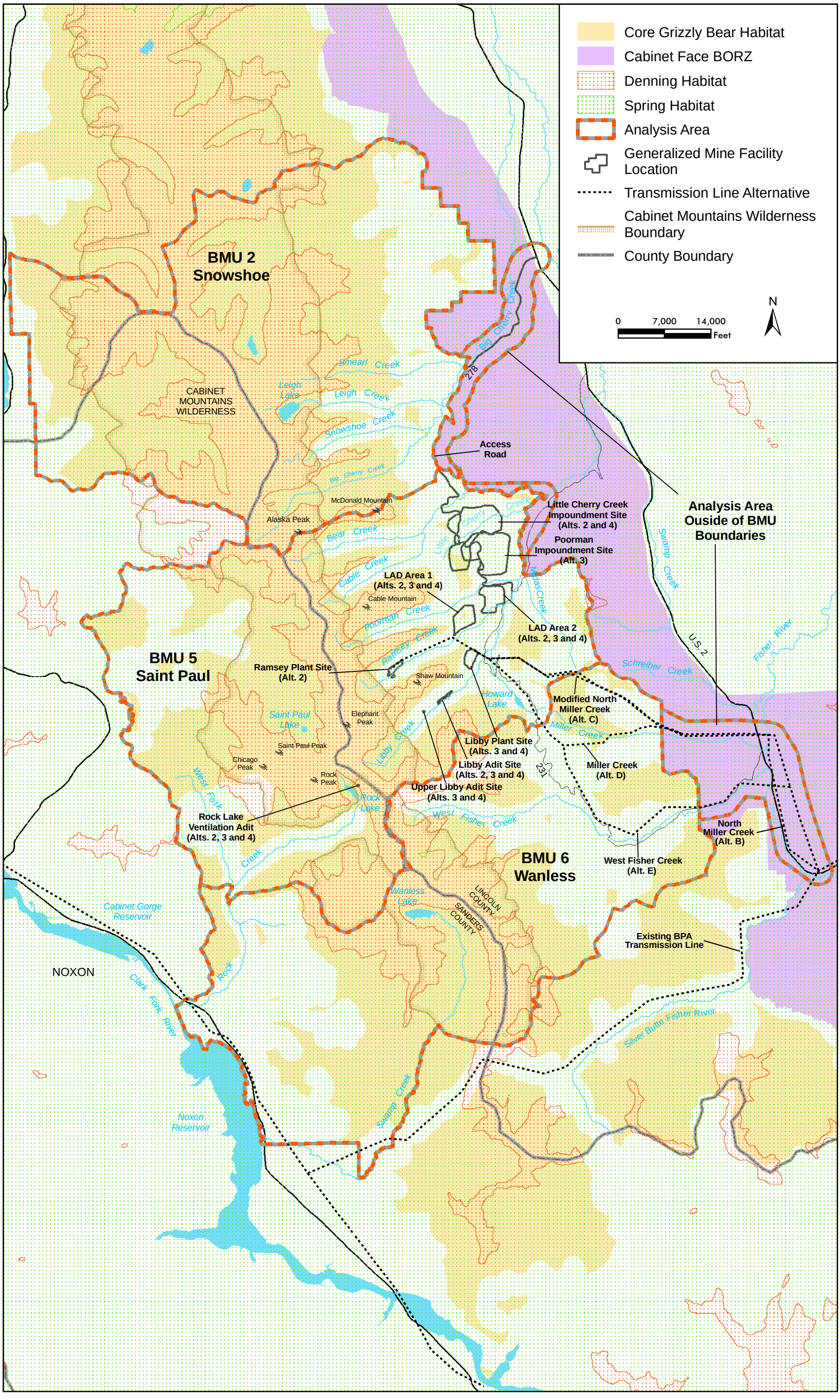


Figure 90. Grizzly Bear Habitat in the Snowshoe (2), Saint Paul (5), and Wanless (6) BMUs and the Cabinet Face BORZ

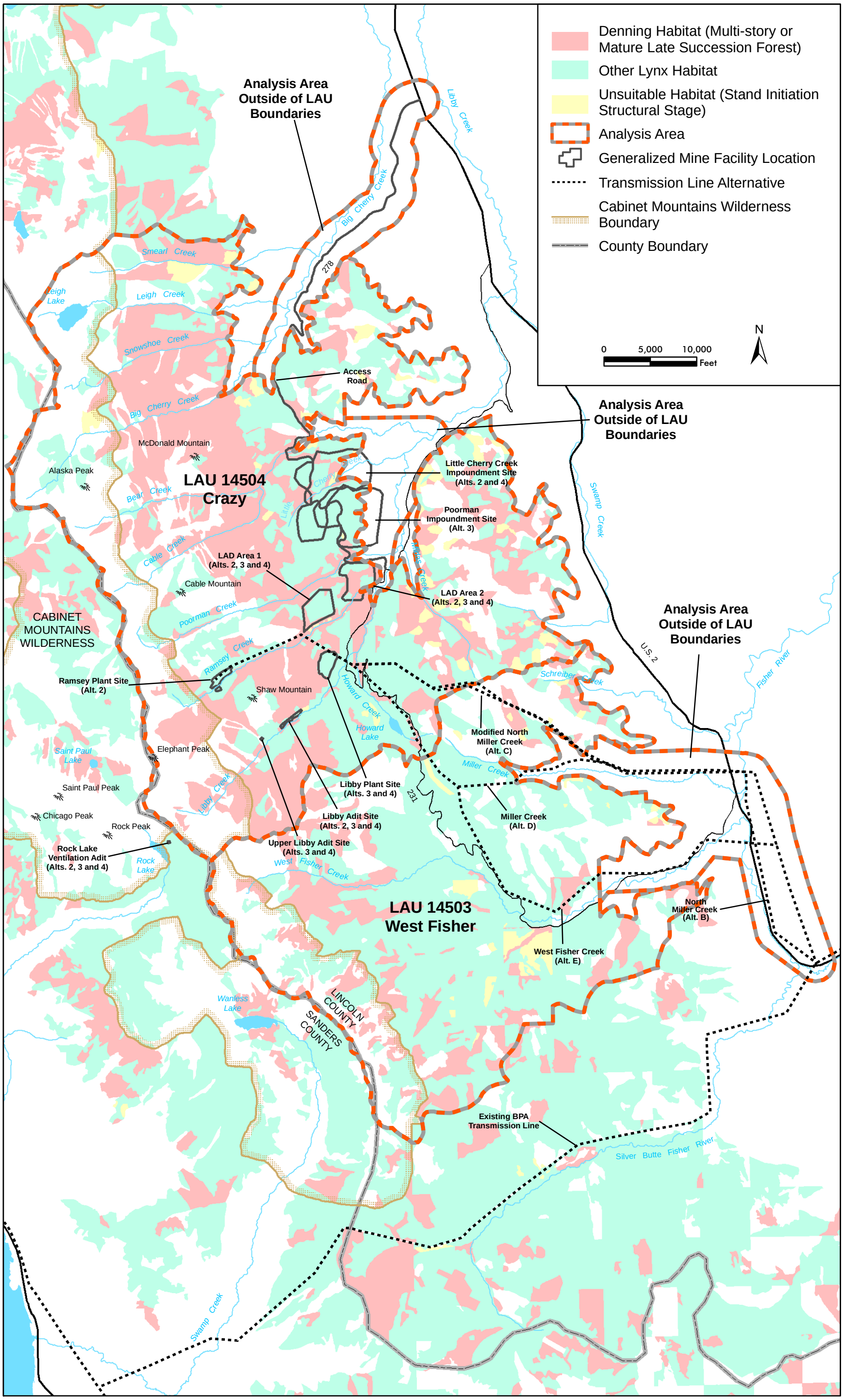


Figure 91. Lynx Habitat in the Analysis Area

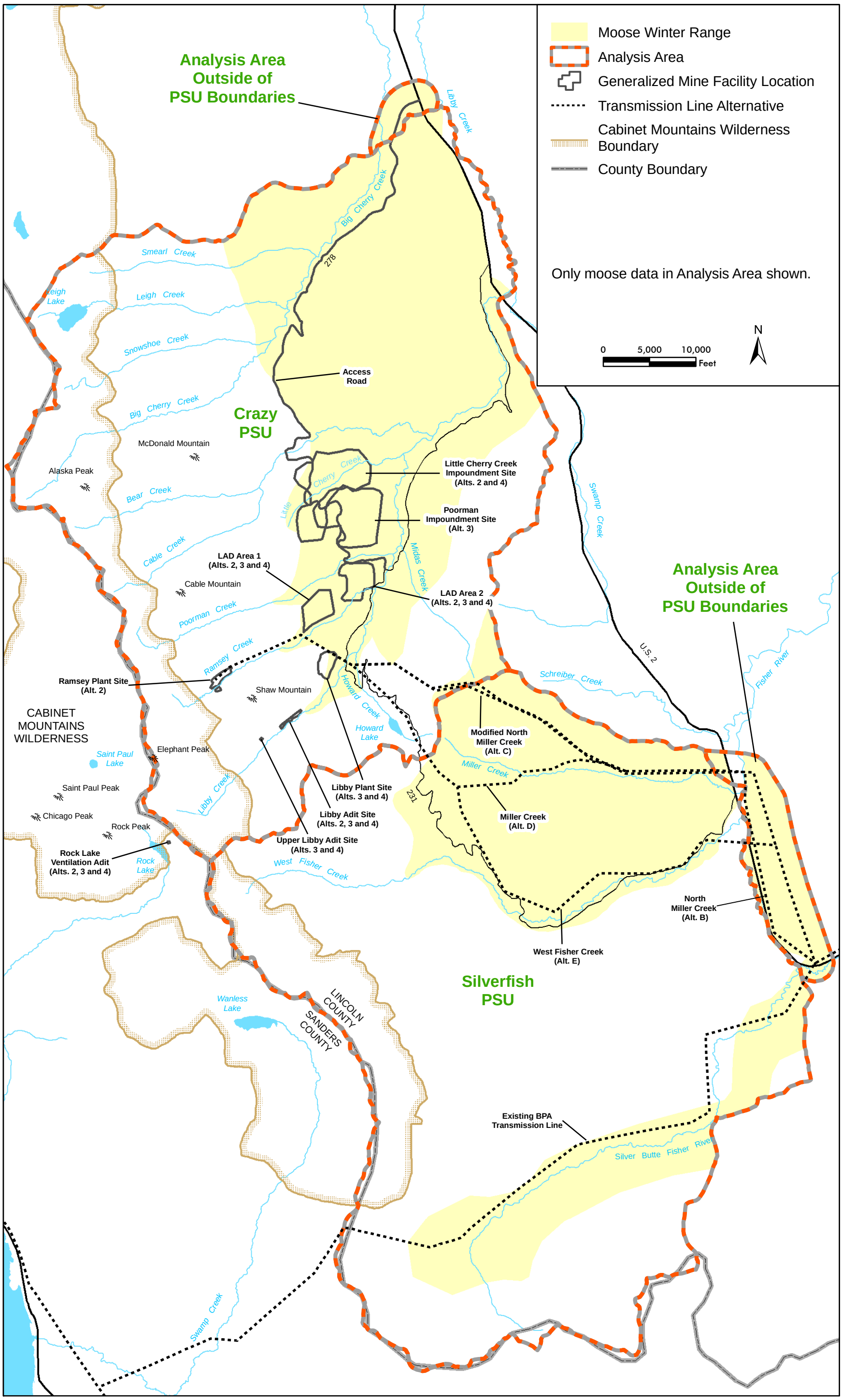


Figure 92. Moose Habitat in the Analysis Area