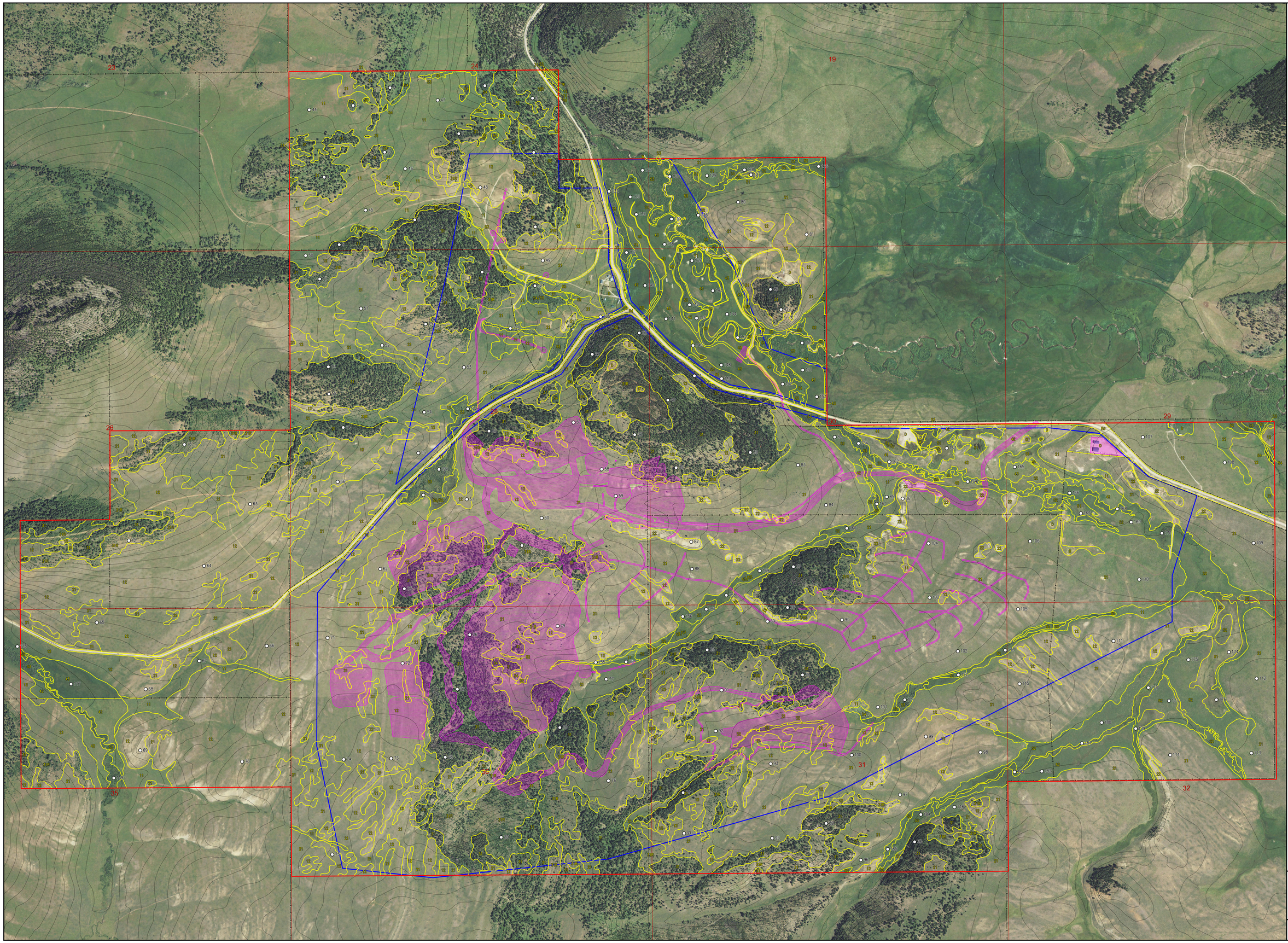

LEGEND

- Study Area Boundary
- Permit Boundary
- Disturbance Boundary
- Vegetation Type Boundary
- Vegetation Sample Site
- Fence

MAP UNIT	VEGETATION TYPE
UPLAND GRASSLAND	
11	**Upland Altered Grassland c.t.**
12	**Upland Native Grassland**
	Festuca idahoensis / Agropyron spicatum h.t.
	Festuca idahoensis / Stipa richardsonii h.t.
	Festuca campestris / Agropyron spicatum h.t.
	Festuca campestris / Festuca idahoensis h.t.
UPLAND SHRUBLAND	
21	*Artemisia tridentata / Poa pratensis* c.t.
	Artemisia tridentata / Festuca idahoensis h.t.
	Artemisia tridentata / Festuca campestris h.t.
	Artemisia tridentata - Dasiphora fruticosa / Poa pratensis c.t.
	Dasiphora fruticosa - Artemisia tridentata / Festuca campestris c.t.
22	Mixed Shrub-Shale Outcrop c.t.
CONIFER FOREST AND WOODLAND	
31 and 31R*	*Pseudotsuga menziesii / Festuca idahoensis* h.t.
	Pseudotsuga menziesii / Festuca campestris h.t.
	Pseudotsuga menziesii / Juniperus communis h.t.
	Pseudotsuga menziesii / Calamagrostis rubescens h.t.
	Pseudotsuga menziesii / Symphoricarpos albus h.t.
32 and 32R*	*Pseudotsuga menziesii / Linnaea borealis* h.t.
	Picea engelmannii / Linnaea borealis h.t.
LOWLAND ALTERED GRASSLAND	
41	Noxious Weed Tailings c.t.
42	Lowland Altered Grassland c.t.
43	Hay Meadow
RIPARIAN AND WETLAND (RW)	
51	**Herbaceous RW types**
	Juncus balticus c.t.
	Carex nebrascensis c.t.
	Carex utriculata h.t.
52	**Low Shrub (Cinquefoil) RW types**
	Dasiphora fruticosa / Poa pratensis c.t.
	Dasiphora fruticosa / Deschampsia cespitosa c.t.
	Dasiphora fruticosa / Carex utriculata c.t.
53	**Tall Shrub (Willow) RW types**
	Salix bebbiana series
	Salix geyeriana series
54	**Deciduous Forest (Aspen) RW types**
	Populus tremuloides / Osmorhiza occidentalis h.t.
	Populus tremuloides / Poa pratensis c.t.
MISCELLANEOUS	
D	Disturbed
Rd	Road
W	Water

* R = immature stands of seedling, sapling, pole-sized trees in logged areas with conifer recruitment or where conifers are encroaching into grassland and shrubland areas.

Note: Acreage for composite map units (mosaic of vegetation types) is generated using the following percentages:

Map Unit	Percent of Acreage
X/Y	60/40

Aerial: 2013 NAIP
Topo: 20' Generated from ⅓ second NED

Scale 1" = 400'

0 200 400 800
Feet

TINTINA RESOURCES
Black Butte Copper Project

Vegetation Habitat Map

WESTECH ENVIRONMENTAL
406-442-0990 | P.O. Box 6045 | Helena, MT 59604

Map Sheet 5

04/25/17 | BBC17_Vegetation.dwg | 1:4,800