

Appendix B. Fish and wildlife species recorded by habitat in the Otter Creek Mine study area, 2012-2013.

Species	Habitat Subtype <sup>b</sup>																		Total
	001 Rock- Cliff	002 Water	021 Bldg.	110 Rip. Tree	123 Pon. Pine- Grass	124 Pon. Pine- Shrub	130 Juniper	212 Big Sage	222 Silver Sage	280 Breaks	310 Tall Mesic Shrub	320 Low Mesic Shrub	411 Bunch- grass	412 Sod- forming Grass	413 Rip. Grass	430 P. Dog	510 Hay	530 Tame Pasture	
<b>FISH</b>																			
<i>Perciformes</i>																			
Green sunfish ( <i>Lepomis cyanellus</i> )		Y <sup>a</sup>																	1
Pumpkinseed ( <i>Lepomis gibbosus</i> )		Y																	1
<i>Siluriformes</i>																			
Black bullhead ( <i>Ameiurus melas</i> )		Y																	1
<i>Cypriniformes</i>																			
Brassy minnow ( <i>Hybognathus hankinsoni</i> )		Y																	1
Fathead minnow ( <i>Pimephales promelas</i> )		Y																	1
Golden shiner ( <i>Notemigonus crysoleucas</i> ) <sup>c</sup>		Y																	1
Sand shiner ( <i>Notropis stramineus</i> )		Y																	1
Lake chub ( <i>Couesius plumbeus</i> )		Y																	1
Common carp ( <i>Cyprinus carpio</i> )		Y																	1
White sucker ( <i>Catostomus commersoni</i> )		Y																	1
<b>AMPHIBIANS</b>																			
<i>Caudata</i>																			
Tiger salamander ( <i>Ambystoma tigrinum</i> )		Y																	1
<i>Anura</i>																			
Woodhouse's toad ( <i>Bufo woodhousii</i> )		Y													X				2
Boreal chorus frog ( <i>Pseudacris maculata</i> )		X,Y																	1
Northern leopard frog ( <i>Rana pipiens</i> )		X,Y																X	2
<b>REPTILES</b>																			
<i>Testudines</i>																			
Snapping turtle ( <i>Chelydra serpentina</i> )		X,Y																	1
Painted turtle ( <i>Chrysemys picta</i> )		X,Y																	1
<i>Squamata</i>																			
Gophersnake ( <i>Pituophis catenifer</i> )														X					1
Terrestrial gartersnake ( <i>Thamnophis elegans</i> )															Y				1
Prairie rattlesnake ( <i>Crotalus viridis</i> )															Y				1
<b>MAMMALS</b>																			
<i>Lagomorpha</i>																			
Desert cottontail ( <i>Sylvilagus audubonii</i> )	X				X				X	X		X		X		X			7
White-tailed jackrabbit ( <i>Lepus townsendii</i> )			X																1
<i>Rodentia</i>																			
Beaver ( <i>Castor canadensis</i> )		x																	1
Porcupine ( <i>Erethizon dorsatum</i> )				X	X									X					3
Northern pocket gopher ( <i>Thomomys talpoides</i> )					X	X		X	X	X			X	X		X		X	9
Muskrat ( <i>Ondatra zibethicus</i> )		X																	1
Deer mouse ( <i>Peromyscus maniculatus</i> )														X					1
Black-tailed prairie dog ( <i>Cynomys ludovicianus</i> )																X			1
Thirteen-lined ground squirrel ( <i>Spermophilus tridecemlineatus</i> )														X		X			2
Least chipmunk ( <i>Tamias minimus</i> )	X			X	X	X	X												5

Appendix B (continued).

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	001 Rock- Cliff	002 Water	021 Bldg.	110 Rip. Tree	123 Pon. Pine- Grass	124 Pon. Pine- Shrub	130 Juniper	212 Big Sage	222 Silver Sage	280 Breaks	310 Tall Mesic Shrub	320 Low Mesic Shrub	411 Bunch- grass	412 Sod- forming Grass	413 Rip. Grass	430 P. Dog	510 Hay	530 Tame Pasture	
<b>Carnivora</b>																			
Coyote ( <i>Canis latrans</i> )	X	X			X	X		X	X	X			X	X	X	X	X	X	13
Red fox ( <i>Vulpes vulpes</i> )																	X		1
Bobcat ( <i>Lynx rufus</i> )						X													1
Striped skunk ( <i>Mephitis mephitis</i> )														X					1
American mink ( <i>Mustela vison</i> )		X		X											X				3
Badger ( <i>Taxidea taxus</i> )								X	X				X	X		X			5
Raccoon ( <i>Procyon lotor</i> )		X													X				2
<b>Artiodactyla</b>																			
Pronghorn ( <i>Antilocapra americana</i> )		X						X	X	X			X	X		X		X	8
Mule deer ( <i>Odocoileus hemionus</i> )	X	X	X	X	X	X		X	X	X		X	X	X			X	X	14
Elk ( <i>Cervus elaphus</i> )		X			X	X							X						4
<b>BIRDS</b>																			
<b>Anseriformes</b>																			
Canada goose ( <i>Branta canadensis</i> )		X															X	X	3
Green-winged teal ( <i>Anas crecca</i> )		X																	1
Mallard ( <i>Anas platyrhynchos</i> )		X																	1
Blue-winged teal ( <i>Anas discors</i> )		X																	1
Northern shoveler ( <i>Anas clypeata</i> )		X																	1
American wigeon ( <i>Anas americana</i> )		X																	1
Redhead ( <i>Aythya americana</i> )		X																	1
<b>Galliformes</b>																			
Ring-necked pheasant ( <i>Phasianus colchicus</i> )			X	X					X		X	X		X	X		X	X	9
Sharp-tailed grouse ( <i>Tympanuchus phasianellus</i> )					X			X	X		X		X	X			X		7
Wild turkey ( <i>Meleagris gallopavo</i> )					X												X		2
<b>Podicipediformes</b>																			
Pied-billed grebe ( <i>Podilymbus podiceps</i> )		X																	1
<b>Pelecaniformes</b>																			
Great blue heron ( <i>Ardea herodias</i> )		X		X											X				3
<b>Accipitriformes</b>																			
Bald eagle ( <i>Haliaeetus leucocephalus</i> )				X															1
Northern harrier ( <i>Circus cyaneus</i> )								X		X							X		3
Swainson's hawk ( <i>Buteo swainsoni</i> )																	X		1
Red-tailed hawk ( <i>Buteo jamaicensis</i> )				X	X			X					X				X	X	6
Rough-legged hawk ( <i>Buteo lagopus</i> )	X			X	X								X	X					5
Golden eagle ( <i>Aquila chrysaetos</i> )	X				X								X						3
<b>Falconiformes</b>																			
American kestrel ( <i>Falco sparverius</i> )				X					X										2
Prairie falcon ( <i>Falco mexicanus</i> )	X																	X	2
<b>Gruiformes</b>																			
Sandhill crane ( <i>Grus canadensis</i> )		X															X	X	3
<b>Charadriiformes</b>																			
Killdeer ( <i>Charadrius vociferus</i> )		X	X											X	X	X	X	X	7
Willet ( <i>Catoptrophorus semipalmatus</i> )		X																	1

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Upland sandpiper ( <i>Bartramia longicauda</i> )													X	X					2
Wilson's snipe ( <i>Gallinago delicta</i> )		X												X	X				3
<b>Wilson's phalarope (<i>Phalaropus tricolor</i>)</b>		X																	1
<b>Columbiformes</b>																			
Eurasian collared-dove ( <i>Streptopelia decaocto</i> )			X		X														2
Mourning dove ( <i>Zenaidura macroura</i> )	X	X	X	X	X	X			X		X	X		X			X	X	12
<b>Strigiformes</b>																			
Great horned owl ( <i>Bubo virginianus</i> )				X	X														2
Burrowing owl ( <i>Athene cucularia</i> )																X			1
<b>Caprimulgiformes</b>																			
Common nighthawk ( <i>Chordeiles minor</i> )		X			X			X	X	X			X				X	X	8
<b>Apodiformes</b>																			
White-throated swift ( <i>Aeronautes saxatalis</i> )	X							X		X									3
<b>Piciformes</b>																			
<b>Red-headed woodpecker (<i>Melanerpes erythrocephalus</i>)</b>				X	X														2
Downy woodpecker ( <i>Picoides pubescens</i> )					X														1
Hairy woodpecker ( <i>Picoides villosus</i> )					x														1
Northern flicker ( <i>Colaptes auratus</i> )				X	X	X				X									4
<b>Passeriformes</b>																			
Western wood-pewee ( <i>Contopus sordidulus</i> )				X	X	X													3
Least flycatcher ( <i>Empidonax minimus</i> )				X															1
Say's phoebe ( <i>Sayornis saya</i> )			X																1
Cassin's kingbird ( <i>Tyrannus vociferans</i> )					X														1
Western kingbird ( <i>Tyrannus verticalis</i> )			X	X					X	X			X	X				X	7
Eastern kingbird ( <i>Tyrannus tyrannus</i> )				X	X								X						3
Loggerhead shrike ( <i>Lanius ludovicianus</i> )												X							1
<b>Northern shrike (<i>Lanius excubitor</i>)</b>												X							1
Pinyon jay ( <i>Gymnorhinus cyanocephalus</i> )					X					X									2
Black-billed magpie ( <i>Pica hudsonia</i> )			X	X	X	X		X	X	X	X		X	X			X		11
American crow ( <i>Corvus brachyrhynchos</i> )				X	X									X			X		4
Common raven ( <i>Corvus corax</i> )	X																		1
Horned lark ( <i>Eremophila alpestris</i> )														X		X			2
Tree swallow ( <i>Tachycineta bicolor</i> )		X	X	X	X													X	5
Bank swallow ( <i>Riparia riparia</i> )		X																	1
Cliff swallow ( <i>Petrochelidon pyrrhonota</i> )	X	X			X				X					X	X		X	X	8
Barn swallow ( <i>Hirundo rustica</i> )		X	X												X		X	X	5
Black-capped chickadee ( <i>Poecile atricapillus</i> )				X	X	X						X							4
Red-breasted nuthatch ( <i>Sitta canadensis</i> )					X	X													2
White-breasted nuthatch ( <i>Sitta carolinensis</i> )					X	X													2
Rock wren ( <i>Salpinctes obsoletus</i> )	X																		1
House wren ( <i>Troglodytes aedon</i> )					X	X													2
Marsh wren ( <i>Cistothorus palustris</i> )		X																	1
Mountain bluebird ( <i>Sialia currucoides</i> )					X	X		X	X	X			X	X			X	X	9

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Townsend's solitaire ( <i>Myadestes townsendi</i> )					X														1
American robin ( <i>Turdus migratorius</i> )	X		X	X	X	X	X		X	X	X			X			X	X	12
Gray catbird ( <i>Dumetella carolinensis</i> )			X								X								2
Brown thrasher ( <i>Toxostoma rufum</i> )				X							X								2
European starling ( <i>Sturnus vulgaris</i> )			X	X														X	3
Common yellowthroat ( <i>Geothlypis tolmiei</i> )											X	X		X					2
Yellow warbler ( <i>Setophaga petechia</i> )				X							X								2
Yellow-rumped warbler ( <i>Setophaga petechial</i> )					X	X													2
Yellow-breasted chat ( <i>Icteria virens</i> )				X							X								2
Spotted towhee ( <i>Pipilo maculatus</i> )					X		X			X	X								4
Chipping sparrow ( <i>Spizella passerina</i> )					X	X													2
Clay-colored sparrow ( <i>Spizella pallida</i> )														X					1
Vesper sparrow ( <i>Pooecetes gramineus</i> )	X							X	X				X	X		X		X	7
Lark sparrow ( <i>Chondestes grammacus</i> )					X	X		X	X	X			X	X				X	8
Lark bunting ( <i>Calamospiza melanocorys</i> )									X					X				X	3
Savannah sparrow ( <i>Passerculus sandwichensis</i> )														X				X	2
Grasshopper sparrow ( <i>Ammodramus savannarum</i> )													X	X					2
Dark-eyed junco ( <i>Junco hyemalis</i> )					X	X	X												3
Western tanager ( <i>Piranga ludoviciana</i> )					X														1
Lazuli bunting ( <i>Passerina amoena</i> )				x							X								2
Red-winged blackbird ( <i>Agelaius phoeniceus</i> )		X		X							X				X		X	X	6
Western meadowlark ( <i>Sturnella neglecta</i> )	X			X	X	X		X	X	X	X		X	X	X	X		X	12
Brewer's blackbird ( <i>Euphagus cyanocephalus</i> )			X	X	X				X	X	X			X		X		X	9
Common grackle ( <i>Quiscalus quiscula</i> )			X																1
Brown-headed cowbird ( <i>Molothrus ater</i> )		X	X	X	X								X	X		X	X	X	9
Bullock's oriole ( <i>Icterus bullockii</i> )				X							X								2
Red crossbill ( <i>Loxia curvirostra</i> )					X														1
American goldfinch ( <i>Spinus tristis</i> )														X					1
<b>Total</b>	<b>15</b>	<b>47</b>	<b>17</b>	<b>33</b>	<b>44</b>	<b>21</b>	<b>4</b>	<b>15</b>	<b>21</b>	<b>18</b>	<b>19</b>	<b>5</b>	<b>21</b>	<b>36</b>	<b>14</b>	<b>14</b>	<b>22</b>	<b>28</b>	

<sup>a</sup>X = species recorded during 2012-2013; Y = species recorded by Stagliano (2014).

<sup>b</sup>Farmer (2012).

<sup>c</sup>Species in red were added to the species list in 2012-2013.