

APPENDIX E

FISH AND WILDLIFE SPECIES KNOWN OR EXPECTED TO OCCUR AT NBK–BANGOR

Table E-1. Marine Fish Species Known or Expected to Occur in Hood Canal

COMMON NAME <i>SCIENTIFIC NAME</i>	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
American shad <i>Alosa sapidissima</i>	Herrings				
Arrow goby <i>Clevelandia ios</i>	Gobies				
Arrowtooth flounder <i>Atheresthes stomias</i>	Righteye Flounders				G
Bay goby <i>Lepidogobius lepidus</i>	Gobies				
Bay pipefish <i>Syngnathus leptorhynchus</i>	Pipefishes and Seahorses	X			
Big skate <i>Raja binoculata</i>	Skates				G
Bigeye starsnout poacher <i>Bathyagonus pentacanthus</i>	Poachers				
Black eelpout <i>Lycodes diapterus</i>	Eelpouts				
Black rockfish <i>Sebastes melanops</i>	Scorpionfishes/Rockfishes			Candidate	G
Blackbelly eelpout <i>Lycodes pacifica</i>	Eelpouts				
Blackeye goby <i>Coryphopterus nicholsii</i>	Gobies				
Blackfin sculpin <i>Malacocottus kincaidi</i>	Fathead Sculpins				
Blackfin starsnout poacher <i>Bathyagonus nigripinnis</i>	Poachers				
Blacktip poacher <i>Xeneretmus latifrons</i>	Poachers				

Table E-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

COMMON NAME SCIENTIFIC NAME	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Bluebarred prickleback <i>Plectobranchnus evides</i>	Pricklebacks				
Bluespotted poacher <i>Xeneretmus triacanthus</i>	Poachers				
Bluntnose sixgill shark <i>Hexanchus griseus</i>	Cow Sharks				
Bocaccio <i>Sebastes paucispinis</i>	Scorpionfishes/Rockfishes			Candidate	G
Brown cat shark <i>Apristurus brunneus</i>	Cat Sharks				
Brown Irish lord <i>Hemilepidotus spinosus</i>	Sculpins	X			
Brown rockfish <i>Sebastes auriculatus</i>	Scorpionfishes/Rockfishes			Candidate	G
Buffalo sculpin <i>Enophrys bison</i>	Sculpins	X			
Bull trout <i>Salvelinus confluentus</i>	Salmonids				
Butter sole <i>Isopsetta isolepis</i>	Righteye Flounders				G
Cabazon <i>Scorpaenichthys marmoratus</i>	Sculpins				G
California barracuda <i>Sphyraena argentea</i>	Barracudas				
California headlightfish <i>Diaphus theta</i>	Lanternfishes				
Canary rockfish <i>Sebastes pinniger</i>	Scorpionfishes/Rockfishes			Candidate	G
Chinook (chinook) salmon <i>Oncorhynchus tshawytscha</i>	Salmonids	X	(Puget Sound) Threatened	(Puget Sound) Candidate	S

Table E-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

COMMON NAME SCIENTIFIC NAME	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Chum salmon <i>Oncorhynchus keta</i>	Salmonids	X	(Hood Canal SU) Threatened	(Hood Canal SU) Candidate	
C-O turbot (sole) <i>Pleuronichthys coenosus</i>	Righteye Flounders	X			
Coho (silver) salmon <i>Oncorhynchus kisutch</i>	Salmonids	X	(Puget Sound) Threatened	(Puget Sound) Candidate	S
Copper rockfish <i>Sebastes caurinus</i>	Scorpionfishes/Rockfishes			Candidate	G
Crescent gunnel <i>Pholis laeta</i>	Gunnels				
Cutthroat trout <i>Oncorhynchus clarki clarki</i>	Salmonids	X	Concern		
Decorated warbonnet <i>Chirolophis decoratus</i>	Pricklebacks				
Dolly varden <i>Salvelinus malma</i>	Salmonids				
Dover sole <i>Microstomus pacificus</i>	Righteye Flounders	X			G
Dusky sculpin <i>Icelinus burchami</i>	Sculpins				
Dwarf wrymouth <i>Lycionectes aleutensis</i>	Wrymouths				
English sole <i>Parophrys vetulus</i>	Righteye Flounders	X			G
Flathead sole <i>Hippoglossoides elassodon</i>	Righteye Flounders				G
Gray starsnout poacher <i>Bathyagonus alascanus</i>	Poachers				
Great sculpin <i>Myoxocephalus polyacanthocephalus</i>	Sculpins				

Table E-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

COMMON NAME SCIENTIFIC NAME	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Greenstriped rockfish <i>Sebastes elongatus</i>	Scorpionfishes/Rockfishes			Candidate	G
Grunt sculpin <i>Rhamphocottus richardsonii</i>	Grunt Sculpins				
Gunnel Order – Pholidae	Gunnels	X			
High cockscomb <i>Anoplarchus purpurescens</i>	Pricklebacks				
Kelp greenling <i>Hexagrammos decagrammus</i>	Greenlings and Lingcod	X			G
Kelp surfperch <i>Brachyistius frenatus</i>	Surfperches	X			
Lingcod <i>Ophiodon elongatus</i>	Greenlings and Lingcod	X			G
Longfin sculpin <i>Jordania zonope</i>	Sculpins				
Longfin smelt <i>Spirinchus thaleichthys</i>	Smelts				
Longnose skate <i>Raja rhina</i>	Skates				G
Longspine combfish <i>Zaniolepis latipinnis</i>	Combfishes				
Manacled sculpin <i>Synchirus gilli</i>	Sculpins				
Market Squid <i>Loligo opalescens</i>	Squid				CP
Mosshead warbonnet <i>Chirolophis nugator</i>	Pricklebacks				
Northern spearnose poacher <i>Agonopsis vulsa</i>	Poachers				

Table E-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

COMMON NAME SCIENTIFIC NAME	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Northern anchovy <i>Engraulis mordax</i>	Anchovies	X			PC
Northern clingfish <i>Gobiesox maeandricus</i>	Clingfishes				
Northern lampfish <i>Stenobranchius leucopsarus</i>	Lanternfishes	X			
Northern rock sole <i>Lepidopsetta polyxystra</i>	Righteye Flounders				
Northern ronquil <i>Ronquilus jordani</i>	Ronquils				
Northern sculpin <i>Icelinus borealis</i>	Sculpins				
Northern spearnose poacher <i>Agonopsis vulsa</i>	Poachers				
Pacific staghorn sculpin <i>Leptocottus armatus</i>	Sculpins				
Pacific butterfish <i>Peprilus simillimus</i>	Butterfishes				
Pacific cod <i>Gadus macrocephalus</i>	Cods				G
Pacific electric ray <i>Torpedo californica</i>	Electric Rays				
Pacific hake (whiting) <i>Merluccius productus</i>	Hakes and Relatives				G
Pacific halibut <i>Hippoglossus stenolepis</i>	Righteye Flounders				
Pacific herring <i>Clupea harengus pallasii</i>	Herrings	X			
Pacific lamprey <i>Lampetra tridentata</i>	Lampreys				

Table E-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

COMMON NAME <i>SCIENTIFIC NAME</i>	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Pacific sand lance <i>Ammodytes hexapterus</i>	Sand Lances	X			
Pacific sanddab <i>Citharichthys sordidus</i>	Lefteye Flounders	X			G
Pacific snake prickleback <i>Lumpenus sagitta</i>	Pricklebacks	X			
Pacific spiny lumpsucker <i>Eumicrotremus orbis</i>	Lumpfishes				
Pacific staghorn sculpin <i>Leptocottus armatus</i>	Sculpins	X			
Pacific tomcod <i>Microgadus proximus</i>	Cods	X			
Padded sculpin <i>Artedius fenestralis</i>	Sculpins				
Painted greenling <i>Oxylebius pictus</i>	Greenlings and Lingcod				
Pallid eelpout <i>Lycodapus mandibularis</i>	Eelpouts				
Penpoint gunnel <i>Apodichthys flavidus</i>	Gunnels	X			
Petrale sole <i>Eopsetta jordani</i>	Righteye Flounders				G
Pile perch <i>Rhacochilus vacca</i>	Surfperches	X			
Pile surfperch <i>Damalichthys vacca</i>	Surfperches	X			
Pink salmon <i>Oncorhynchus gorboscha</i>	Salmonids	X			S
Plainfin midshipman <i>Porichthys notatus</i>	Toadfishes	X			

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COMMON NAME SCIENTIFIC NAME	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Prickly sculpin <i>Cottus asper</i>	Sculpins				
Puget Sound rockfish <i>Sebastes emphaeus</i>	Scorpionfishes/Rockfishes				
Pygmy poacher <i>Odontopyxis trispinosa</i>	Poachers	X			
Quillback rockfish <i>Sebastes maliger</i>	Scorpionfishes/Rockfishes			Candidate	G
Quillfish <i>Ptilichthys goodei</i>	Quillfish				
Red brotula <i>Brosomphycis marginata</i>	Viviparous Brotulas				
Red Irish lord <i>Hemilepidotus hemilepidotus</i>	Sculpins	X			
Redbanded rockfish <i>Sebastes babcocki</i>	Scorpionfishes/Rockfishes				G
Redstripe rockfish <i>Sebastes proriger</i>	Scorpionfishes/Rockfishes			Candidate	G
Rex sole <i>Glyptocephalus zachirus</i>	Righteye Flounders	X			G
Ribbed sculpin <i>Triglops pingelii</i>	Sculpins				
Ribbon snailfish <i>Liparis cyclopus</i>	Snailfishes	X			
River lamprey <i>Lampetra ayresii</i>	Lampreys				
Rockfish (juv.) <i>Sebastes</i> spp.	Scorpionfishes/Rockfishes	X			
Rock greenling <i>Hexagrammos lagocephalus</i>	Greenlings				

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COMMON NAME SCIENTIFIC NAME	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Rock sole <i>Lepidopsetta bilineata</i>	Righteye Flounders				X
Roughback sculpin <i>Chitonotus pugetensis</i>	Sculpins				
Roughspine sculpin <i>Triglops macellus</i>	Sculpins				
Sablefish <i>Anoplopoma fimbria</i>	Sablefishes/Skillfishes				G
Saddleback gunnel <i>Pholis ornata</i>	Gunnels				
Sailfin sculpin <i>Nautichthys oculofasciatus</i>	Searavens				
Sand sole <i>Psettichthys melanostictus</i>	Righteye Flounders				G
Scalyhead sculpin <i>Artedius harringtoni</i>	Sculpins				
Sculpin spp. Order – Cottidae	Sculpins	X			
Sharpchin rockfish <i>Sebastes zacentrus</i>	Scorpionfishes/Rockfishes				X
Sharpnose sculpin <i>Clinocottus acuticeps</i>	Sculpins				
Shiner surfperch <i>Cymatogaster aggregata</i>	Surfperches	X			
Shortfin eelpout <i>Lycodes brevipes</i>	Eelpouts				
Shortspine thornyhead <i>Sebastolobus alascanus</i>	Scorpionfishes/Rockfishes				
Showy snailfish <i>Liparis pulchellus</i>	Snailfishes				

Table E-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

COMMON NAME SCIENTIFIC NAME	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Silvergray rockfish <i>Sebastes brevispinis</i>	Scorpionfishes/Rockfishes				X
Sixgill shark <i>Hexanchus griseus</i>	Cow Sharks				
Slender Cockscomb <i>Anoplarchus insignis</i>	Pricklebacks				
Slender snipe eel <i>Nemichthys scolopaceus</i>	Snipe Eels				
Slender sole <i>Lyopsetta exilis</i>	Righteye Flounders				
Slim sculpin <i>Radulinus asprellus</i>	Sculpins				
Smooth alligatorfish <i>Anoplagonus inermis</i>	Poachers				
Smoothhead sculpin <i>Artedius lateralis</i>	Sculpins				
Snake prickleback <i>Lumpenus sagitta</i>	Pricklebacks	X			
Sockeye (red) salmon <i>Oncorhynchus nerka</i>	Salmonids	X			
Soft sculpin <i>Psychrolutes sigalutes</i>	Fathead Sculpins				
Sole spp. Order – Pleuronectiformes	Righteye Flounders				
Southern rock sole <i>Lepidopsetta bilineata</i>	Righteye Flounders				
Speckled sanddab <i>Citharichthys stigmaeus</i>	Lefteye Flounders	X			
Spiny dogfish <i>Squalus acanthias</i>	Dogfish Sharks				G

Table E-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

COMMON NAME SCIENTIFIC NAME	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Spinycheek starsnout poacher <i>Bathyagonus infraspinatus</i>	Poachers				
Spinyhead sculpin <i>Dasycottus setiger</i>	Fathead Sculpins				
Splitnose rockfish <i>Sebastes diploproa</i>	Scorpionfishes/Rockfishes				G
Spinynose sculpin <i>Dasycottus setiger</i>	Sculpins				
Spotfin sculpin <i>Icelinus tenuis</i>	Sculpins				
Spotted ratfish <i>Hyrolagus colliciei</i>	Chimeras				
Starry flounder <i>Platichthys stellatus</i>	Righteye Flounders	X			G
Steelhead <i>Oncorhynchus mykiss</i>	Salmonids	X	(Puget Sound) Threatened		
Striped surfperch <i>Embiotoca lateralis</i>	Surfperches	X			
Stripetail rockfish <i>Sebastes saxicola</i>	Scorpionfishes/Rockfishes				G
Sturgeon poacher <i>Agonus acipenserinus</i>	Poachers				
Surf smelt <i>Hypomesus pretiosus</i>	Smelts	X			
Tadpole sculpin <i>Psychrolutes paradoxus</i>	Fathead Sculpins				
Threadfin sculpin <i>Icelinus filamentosus</i>	Sculpins				
Three-spined stickleback <i>Gasterosteus aculeatus</i>	Sticklebacks	X			

Table E-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

COMMON NAME SCIENTIFIC NAME	COMMON FAMILY NAME	CAPTURED IN BEACH SEINE ¹	FEDERAL AND STATE LISTED SPECIES		ESSENTIAL FISH HABITAT SPECIES ²
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Tidepool sculpin <i>Oligocottus maculosus</i>	Sculpins	X			
Tubesnout <i>Aulorhynchus flavidus</i>	Tubesnouts	X			
Vermillion rockfish <i>Sebastes miniatus</i>	Scorpionfishes/Rockfishes				G
Walleye pollock <i>Theragra chalcogramma</i>	Cods	X	(S. Puget Sound) Concerned	(S. Puget Sound) Candidate	
Wattled eelpout <i>Lycodes palearis</i>	Eelpouts				
White sturgeon <i>Acipenser transmontanus</i>	Sturgeons				
Whitebarred prickleback <i>Poroclinus rothrocki</i>	Pricklebacks				
Whitespotted greenling <i>Hexagrammos stelleri</i>	Greenlings and Lingcod	X			
Wolf-eel <i>Anarrhichthys ocellatus</i>	Wolffishes				
Yelloweye rockfish <i>Sebastes ruberrimus</i>	Scorpionfishes/Rockfishes			Candidate	G
Yellowtail rockfish <i>Sebastes flavidus</i>	Scorpionfishes/Rockfishes			Candidate	G

¹ SAIC 2006² CP = Coastal pelagic, G = Groundfish, S = Salmon.

Sources: University of Washington 2000; Palsson 2007; Puget Sound Action Team 2007; WDFW 2007; REEF 2008; WDFW 2008a,b.

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Shorebirds and Wading Birds						
Black-bellied plover <i>Pluvialis squatarola</i>	fall and spring migrant and winter resident					
Semipalmated plover <i>Charadrius semipalmatus</i>	fall and spring migrant					
Killdeer <i>Charadrius vociferus</i>	year-round					
Greater yellowlegs <i>Tringa melanoleuca</i>	fall and spring migrant					
Lesser yellowlegs <i>Tringa flavipes</i>	fall migrant					
Spotted sandpiper <i>Actitis macularia</i>	summer resident					
Ruddy turnstone <i>Arenaria interpres</i>	fall and spring migrant					
Black turnstone <i>Arenaria melanocephala</i>	migrant and winter resident				X	
Wandering tattler <i>Heteroscelus incanus</i>	fall and spring migrant					
Sanderling <i>Calidris alba</i>	migrant and winter resident					
Western sandpiper <i>Calidris mauri</i>	fall and spring migrant					
Least sandpiper <i>Calidris minutilla</i>	fall and spring migrant					
Pectoral sandpiper <i>Calidris melanotos</i>	fall migrant					

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Dunlin <i>Calidris alpina</i>	fall and spring migrant					
Short-billed dowitcher <i>Limnodromus griseus</i>	fall and spring migrant				X	
Long-billed dowitcher <i>Limnodromus scolopaceus</i>	fall and spring migrant					
Wilson's snipe <i>Gallinago delicata</i>	fall and spring migrant					
Red-necked phalarope <i>Phalaropus lobatus</i>	fall and spring migrant					
Great blue heron <i>Ardea herodias</i>	year-round					X
Red-throated loon <i>Gavia stellata</i>	fall and spring migrant, winter resident					
Pacific loon <i>Gavia pacifica</i>	winter resident					
Common loon <i>Gavia immer</i>	winter resident		Sensitive			
Yellow-billed loon <i>Gavia adamsii</i>	winter resident				X	
Pied-billed grebe <i>Podilymbus podiceps</i>	year-round					
Horned grebe <i>Podiceps auritus</i>	winter resident					
Eared grebe <i>Podiceps nigricollis</i>	winter resident					
Red-necked grebe <i>Podiceps grisegena</i>	winter resident					

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Western grebe <i>Aechmophorus occidentalis</i>	winter resident		Candidate			
Canada goose <i>Branta canadensis</i>	year-round					
Snow goose <i>Chen caerulescens</i>	winter resident					
White-fronted goose <i>Anser albifrons</i>	fall and spring migrant					
Brant <i>Branta bernicla</i>	fall and spring migrant, winter resident					X
Trumpeter swan <i>Cygnus buccinator</i>	fall and spring migrant, winter resident					
Wood duck <i>Aix sponsa</i>	year-round, but less common in winter					X
Gadwall <i>Anas strepera</i>	year-round					
Northern pintail <i>Anas acuta</i>	winter resident					
Eurasian wigeon <i>Anas penelope</i>	winter resident					
American wigeon <i>Anas americana</i>	winter resident					
Northern shoveler <i>Anas clypeata</i>	year-round					
Mallard <i>Anas platyrhynchos</i>	year-round					

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Green-winged teal <i>Anas crecca</i>	fall and spring migrant, winter resident					
Canvasback <i>Aythya valisineria</i>	winter resident					
Greater scaup <i>Aythya marila</i>	fall and spring migrant, winter resident					
Lesser scaup <i>Aythya affinis</i>	fall and spring migrant, winter resident					
Long-tailed duck <i>Clangula hyemalis</i>	winter resident					
Surf scoter <i>Melanitta perspicillata</i>	winter resident, and non-breeding flocks in summer					
White-winged scoter <i>Melanitta fusca</i>	winter resident, and non-breeding flocks in summer					
Black scoter <i>Melanitta nigra</i>	winter resident					
Bufflehead <i>Bucephala albeola</i>	winter resident					X
Common goldeneye <i>Bucephala clangula</i>	winter resident					X
Barrow's goldeneye <i>Bucephala islandica</i>	winter resident					X
Hooded merganser <i>Lophodytes cucullatus</i>	year-round					X
Common merganser <i>Mergus merganser</i>	year-round					

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Red-breasted merganser <i>Mergus serrator</i>	winter resident					
Ruddy duck <i>Oxyura jamaicensis</i>	winter resident					
American coot <i>Fulica americana</i>	year-round					
Seabirds						
Parasitic jaeger <i>Stercorarius parasiticus</i>	fall migrant, follows common tern migration					
Bonaparte's gull <i>Larus philadelphia</i>	fall and spring migrant					
Ring-billed gull <i>Larus delawarensis</i>	fall and spring migrant, summer resident					
Mew gull <i>Larus canus</i>	winter resident					
Glaucous-winged gull <i>Larus glaucescens</i>	year-round					
Herring gull <i>Larus argentatus</i>	winter resident					
Thayer's gull <i>Larus thayeri</i>	fall and spring migrant, winter resident					
Caspian tern <i>Sterna caspia</i>	non-breeding summer resident				X	
Common tern <i>Sterna hirundo</i>	fall migrant					
Brant's cormorant <i>Phalacrocorax penicillatus</i>	year-round		Candidate			

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COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Double-crested cormorant <i>Phalacrocorax auritus</i>	year-round					
Pelagic cormorant <i>Phalacrocorax pelagicus</i>	year-round					
Common murre <i>Uria aalge</i>	common in winter, but uncommon to absent in summer		Candidate			
Pigeon guillemot <i>Cephus columba</i>	year-round, numbers greater in winter than summer					
Marbled murrelet <i>Brachyramphus marmoratus</i>	year-round	Threatened	Threatened			X
Ancient murrelet <i>Synthliboramphus antiquus</i>	late-fall to early- winter resident					
Rhinoceros auklet <i>Cerorhinca monocerata</i>	summer resident					
Raptors						
Bald eagle <i>Haliaeetus leucocephalus</i>	year-round		Sensitive			X
Osprey <i>Pandion haliaetus</i>	summer resident					
Northern harrier <i>Circus cyaneus</i>	winter resident					
Sharp-shinned hawk <i>Accipiter striatus</i>	fall migrant					
Cooper's hawk <i>Accipiter cooperii</i>	fall migrant			X		

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Red-tailed hawk <i>Buteo jamaicensis</i>	year-round					
Rough-legged hawk <i>Buteo lagopus</i>	winter resident					
Merlin <i>Falco columbarius</i>	fall migrant		Candidate			
Peregrine falcon <i>Falco peregrinus</i>	fall migrant		Sensitive		X	
Turkey vulture <i>Cathartes aura</i>	summer resident					
Great horned owl <i>Bubo virginianus</i>	year-round					
Barn owl <i>Tyto alba</i>	year-round					
Snowy owl <i>Nyctea scandiaca</i>	winter resident					
Western screech-owl <i>Otus kennicottii</i>	year-round					
Barred owl <i>Strix varia</i>	year-round					
Northern saw-whet owl <i>Aegolius acadicus</i>	year-round					
Northern pygmy owl <i>Glaucidium gnoma</i>	year-round					
Other Terrestrial Birds						
Ruffed grouse <i>Bonasa umbellus</i>	year-round			X		

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Blue grouse <i>Dendragapus obscurus</i>	year-round			X		
Ring-necked pheasant <i>Phasianus colchicus</i>	year-round					
California quail <i>Callipepla californica</i>	year-round					
Mountain quail <i>Oreortyx pictus</i>	year-round					X
Common nighthawk <i>Chordeiles minor</i>	summer resident					
Rock dove <i>Columba livia</i>	year-round					
Mourning dove <i>Zenaida macroura</i>	year-round					
Band-tailed pigeon <i>Columba fasciata</i>	common summer, uncommon winter resident			X		
Vaux's swift <i>Chaetura vauxi</i>	summer resident		Candidate			
Anna's hummingbird <i>Calypte anna</i>	year-round					
Rufous hummingbird <i>Selasphorus rufus</i>	summer resident			X	X	
Belted kingfisher <i>Ceryle alcyon</i>	year-round					
Red-breasted sapsucker <i>Sphyrapicus ruber</i>	year-round			X		

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Hairy woodpecker <i>Picoides villosus</i>	year-round					
Downy woodpecker <i>Picoides pubescens</i>	year-round					
Northern flicker <i>Colaptes auratus</i>	year-round					
Pileated woodpecker <i>Dryocopus pileatus</i>	year-round		Candidate			
Olive-sided flycatcher <i>Contopus cooperi</i>	summer resident			X	X	
Willow flycatcher <i>Empidonax traillii</i>	summer resident			X		
Hammond's flycatcher <i>Empidonax hammondii</i>	summer resident					
Pacific-slope flycatcher <i>Empidonax difficilis</i>	summer resident					
Hutton's vireo <i>Vireo huttoni</i>	year-round					
Gray jay <i>Perisoreus canadensis</i>	year-round					
Steller's jay <i>Cyanocitta stelleri</i>	year-round					
American crow <i>Corvus brachyrhynchos</i>	year-round					
Common raven <i>Corvus corax</i>	year-round					

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Purple martin <i>Progne subis</i>	summer resident		Candidate			
Tree swallow <i>Tachycineta bicolor</i>	summer resident					
Violet-green swallow <i>Tachycineta thalassina</i>	summer resident					
Cliff swallow <i>Petrochelidon pyrrhonota</i>	summer resident					
Barn swallow <i>Hirundo rustica</i>	summer resident					
Black-capped chickadee <i>Poecile atricapilla</i>	year-round					
Chestnut-backed chickadee <i>Poecile rufescens</i>	year-round					
Bushtit <i>Psaltriparus minimus</i>	year-round					
Red-breasted nuthatch <i>Sitta canadensis</i>	year-round					
Brown creeper <i>Certhia americana</i>	year-round					
Bewick's wren <i>Thryomanes bewickii</i>	year-round					
Winter wren <i>Troglodytes troglodytes</i>	year-round					
Marsh wren <i>Cistothorus palustris</i>	summer resident					
American dipper <i>Cinclus mexicanus</i>	year-round					

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Golden-crowned kinglet <i>Regulus satrapa</i>	summer resident			X		
Ruby-crowned kinglet <i>Regulus calendula</i>	migrant, winter resident					
Swainson's thrush <i>Catharus ustulatus</i>	summer resident					
American robin <i>Turdus migratorius</i>	year-round					
Varied thrush <i>Ixoreus naevius</i>	summer resident					
European starling <i>Sturnus vulgaris</i>	year-round					
Yellow warbler <i>Dendroica petechia</i>	summer resident					
Yellow-rumped warbler <i>Dendroica coronata</i>	summer resident					
Townsend's warbler <i>Dendroica townsendi</i>	summer resident					
MacGillivray's warbler <i>Oporornis tolmiei</i>	summer resident					
Common yellowthroat <i>Geothlypis trichas</i>	summer resident					
Wilson's warbler <i>Wilsonia pusilla</i>	summer resident					
Western tanager <i>Piranga ludoviciana</i>	summer resident					
Spotted towhee <i>Pipilo maculatus</i>	summer resident					

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
Song sparrow <i>Melospiza melodia</i>	year-round					
White-crowned sparrow <i>Zonotrichia leucophrys</i>	summer resident					
Golden-crowned sparrow <i>Zonotrichia atricapilla</i>	migrant, summer resident					
Fox sparrow <i>Passerella iliaca</i>	winter resident					
Dark-eyed junco <i>Junco hyemalis</i>	year-round					
Red-winged blackbird <i>Agelaius phoeniceus</i>	summer resident					
Brewer's blackbird <i>Euphagus cyanocephalus</i>	year-round					
Brown-headed cowbird <i>Molothrus ater</i>	migrant, summer resident					
Purple finch <i>Carpodacus purpureus</i>	year-round			X		
House finch <i>Carpodacus mexicanus</i>	year-round					
Red crossbill <i>Loxia curvirostra</i>	year-round			X		
Pine siskin <i>Carduelis pinus</i>	year-round					
American goldfinch <i>Carduelis tristis</i>	year-round					
Evening grosbeak <i>Coccothraustes vespertinus</i>	summer resident					

Table E-2. Bird Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		PIF BIRD OF CONSERVATION CONCERN? ¹	USFWS BIRD OF CONSERVATION CONCERN? ²	WDFW PRIORITY SPECIES? ³
		FEDERAL STATUS	WASHINGTON STATE STATUS			
House sparrow <i>Passer domesticus</i>	year-round					

¹ Altman 1999a, 1999b.

² USFWS 2002.

³ WDFW 2008c

Sources: Taber and Raedeke 1983; Navy 2001; Opperman 2003; Wahl et al 2005; Nysewander et al 2005; Agness and Tannenbaum 2008a; Kitsap Audubon Society 2008.

Table E-3. Mammal Species Known or Expected to Occur at NBK-Bangor

COMMON NAME	SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		WDFW PRIORITY SPECIES? ¹
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Marine Mammals					
Grey whale	<i>Eschrichtius robustus</i>	year-round (rare)		Sensitive	X
Minke whale	<i>Balaenoptera acutorostrata</i>	spring, summer and fall (rare)			
Humpback whale	<i>Megaptera novaeangliae</i>	spring and fall (rare)	Endangered	Endangered	
Killer whale (Transient)	<i>Orcinus orca</i>	year-round (rare)			
Dall's porpoise	<i>Phocoenoides dalli</i>	year-round (rare)			
Harbor porpoise	<i>Phocoena phocoena</i>	year-round (rare)			
Harbor seal	<i>Phoca vitulina richardsi</i>	year-round (common, resident species)			
Northern elephant seal	<i>Mirounga angustirostris</i>	summer and fall (rare)			
California sea lion	<i>Zalophus californianus californianus</i>	fall to late spring (common)			X
Steller sea lion	<i>Eumetopias jubatus</i>	year-round (rare)	Threatened	Threatened	
Game					
Cougar	<i>Felis concolor</i>	year-round			
Black bear	<i>Ursus americanus</i>	early spring to fall (active), and winter hibernation			
Black-tailed deer	<i>Odocoileus hemionus</i>	year-round			

Table E-3. Mammal Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME	SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		WDFW PRIORITY SPECIES? ¹
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Non-Game					
Virginia opossum	<i>Didelphis virginiana</i>	year-round			
Feral dog	<i>Canis familiaris</i>	year-round			
Feral cat	<i>Felis catus</i>	year-round			
Masked shrew	<i>Sorex cinereus</i>	year-round			
Vagrant shrew	<i>Sorex vagrans</i>	year-round			
Trowbridge's shrew	<i>Sorex trowbridgii</i>	year-round			
Coast mole	<i>Scapanus orarius</i>	year-round			
Myotis bats	<i>Myotis spp.</i>	year-round			X
Hoary bat	<i>Lasiurus cinereus</i>	year-round			
Silver-haired bat	<i>Lasionycteris noctivagans</i>	year-round			
Big Brown bat	<i>Eptesicus fuscus</i>	year-round			
Townsend's Big-eared bat	<i>Corynorhinus townsendii</i>	year-round	Species of concern	Candidate	
Snowshoe hare	<i>Lepus americanus</i>	year-round			
Mountain beaver	<i>Aplodontia rufa</i>	year-round			
Townsend's chipmunk	<i>Tamias townsendii</i>	year-round			
Eastern gray squirrel	<i>Sciurus carolinensis</i>	year-round			

Table E-3. Mammal Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME	SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		WDFW PRIORITY SPECIES? ¹
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Douglas's squirrel	<i>Tamiasciurus douglasii</i>	year-round			
Northern flying squirrel	<i>Glaucomys sabrinus</i>	year-round			
Beaver	<i>Castor canadensis</i>	year-round			
Bushy-tailed woodrat	<i>Neotoma cinerea</i>	year-round			
Forest deer mouse	<i>Peromyscus keeni</i>	year-round			
Deer mouse	<i>Peromyscus maniculatus</i>	year-round			
Gapper's red-backed vole	<i>Clethrionomys gapperi</i>	year-round			
Long-tailed Vole	<i>Microtus longicaudus</i>	year-round			
Townsend's vole	<i>Microtus townsendii</i>	year-round			
Creeping vole	<i>Microtus oregoni</i>	year-round			
Pacific jumping mouse	<i>Zapus trinotatus</i>	year-round			
Muskrat	<i>Ondatra zibethicus</i>	year-round			
Porcupine	<i>Erethizon dorsatum</i>	year-round			
Nutria	<i>Myocastor coypus</i>	year-round			
House mouse	<i>Mus musculus</i>	year-round			
Norway rat	<i>Rattus norvegicus</i>	year-round			
Black rat	<i>Rattus rattus</i>	year-round			
Coyote	<i>Canis latrans</i>	year-round			

Table E-3. Mammal Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME	SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		WDFW PRIORITY SPECIES? ¹
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Red fox	<i>Vulpes vulpes</i>	year-round			
Black bear	<i>Ursus americanus</i>	year-round			
Raccoon	<i>Procyon lotor</i>	year-round			
Ermine	<i>Mustela erminea</i>	year-round			
Long-tailed weasel	<i>Mustela frenata</i>	year-round			
Mink	<i>Mustela vison</i>	year-round			
Striped skunk	<i>Mephitis mephitis</i>	year-round			
Western spotted skunk	<i>Spilogale gracilis</i>	year-round			
River otter	<i>Lutra canadensis</i>	year-round			

¹ WDFW 2008b

Sources: Osborne et al. 1988; Calambokidis and Baird 1994; Johnson and Cassidy 1997; Osmek et al. 1998; Jeffries et al. 2000; Navy 2001; Paulson 2003b; Jeffries 2006, personal communication; Laake 2006, personal communication; Carretta et al. 2007; Agness and Tannenbaum 2008b.

Table E-4. Amphibian and Reptile Species Known or Expected to Occur at NBK-Bangor

COMMON NAME	SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		WDFW PRIORITY SPECIES? ¹
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Amphibians					
Northwestern salamander	<i>Ambystoma gracile</i>	year-round			
Long-toed salamander	<i>Ambystoma macrodactylum</i>	year-round			
Roughskin newt	<i>Taricha granulosa</i>	year-round			
Western red-backed salamander	<i>Plethodon vehiculum</i>	year-round			
Ensatina	<i>Ensatina eschscholtzii</i>	year-round			
Western toad	<i>Bufo boreas</i>	year-round	Species of concern	Candidate	
Pacific treefrog	<i>Hyla regilla</i>	year-round			
Northern red-legged frog	<i>Rana aurora</i>	year-round			
Bullfrog (Non-native)	<i>Rana catesbeiana</i>	year-round			

Table E-4. Amphibian and Reptile Species Known or Expected to Occur at NBK-Bangor (continued)

COMMON NAME	SCIENTIFIC NAME	SEASON(S) OF OCCURRENCE	FEDERAL AND STATE LISTED SPECIES		WDFW PRIORITY SPECIES? ¹
			FEDERAL STATUS	WASHINGTON STATE STATUS	
Reptiles					
Western painted turtle	<i>Chrysemys picta bellii</i>	year-round			
Slider (Introduced)	<i>Trachemys scripta</i>	year-round			
Northern alligator lizard	<i>Elgaria coerulea principis</i>	year-round			
Western fence lizard	<i>Sceloporus occidentalis</i>	year-round			
Rubber boa	<i>Charina bottae</i>	year-round			
Western terrestrial garter snake	<i>Thamnophis elegans</i>	year-round			
Northwestern garter snake	<i>Thamnophis ordinoides</i>	year-round			
Common garter snake	<i>Thamnophis sirtalis</i>	year-round			

¹ WDFW 2008b

Sources: Storm and Leonard 1995; Dvornich et al. 1997; Navy 2001; Paulson 2003a; Jones et al. 2005.

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