

APPENDIX O

NATURAL RESOURCE SURVEYS CONDUCTED ON NBC

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Natural Resource Surveys Conducted on NBC

<i>Natural resources surveys completed on Naval Air Station North Island.</i>		
Species	Project Duration and Objective	Source
INVERTEBRATES	February - August 2005: day, night, and cover-board surveys were completed as part of the NR inventory effort.	U.S. Navy 2006a
WETLAND DELINEATIONS	January and June 2005: wetland delineation completed as part of the NR inventory effort.	U.S. Navy 2006a
PLANTS	February – October 2005: Rare and invasive plant surveys and vegetation mapping completed as part of NR inventory.	U.S. Navy 2006a
	Rare plant surveys are conducted annually on NASNI, NAB/SSTC-N, and SSTC-S every year since 2005.	Pers. Comm. Munson 2013.
AMPHIBIANS and REPTILES	March through September 2005: cover-board and meandering transect surveys were completed as part of the NR inventory effort.	U.S. Navy 2006a
BIRDS	One year of quarterly surveys were conducted at 10 point count stations as part of the NR inventory effort.	U.S. Navy 2006a
	June 1999-January 2000: Surveys were conducted monthly by the National Wildlife Research Center (NWRC) to provide information for the BASH program. Both live and dead birds were counted.	USDA Wildlife Services 2000
	May 2006 – present: BASH biologist (USDA Wildlife Services) conducts Airport Wildlife Hazard Surveys twice each month at NASNI and NOLF IB. Surveys are conducted at eight survey stations around each airfield three times throughout the day at dawn, midday, and dusk.	USDA Wildlife Services 2010
	March 2006 – February 2007: Comprehensive waterbird and shorebird surveys of San Diego Bay. Effort at NASNI included three point counts along the shoreline and area searches of all shorebird habitats.	Tierra Data 2008
	March 2009 – February 2010: Comprehensive waterbird and shorebird surveys of San Diego Bay. Effort at NASNI included three point counts along the shoreline and area searches of all shorebird habitats.	Tierra Data 2011
Hérons and Egrets	1995: Surveys included nest and roost site surveillance and bird banding.	USFWS 1996
	1996: Colonies surveyed once a week for nest activity, chicks, fledglings and mortality.	Jehl et al. 1997
	1997 Colonies surveyed once a week during breeding season.	Jehl et al. 1997
	March–August 1998: Surveys included documenting nest activity, the number of chicks and fledglings present, chick mortality, and human activities.	Henry and Jehl 1998
	January-September 1999, 2000 approximately every 8 days during breeding season. Activity was observed using binoculars. Species present were recorded, as well as number of active nests, adults, chicks, fledglings, egg shell fragments and dead birds.	Tierra Data 2000

Natural resources surveys completed on Naval Air Station North Island.

Species	Project Duration and Objective	Source
Hérons and Egrets (cont'd.)	April - August 2008: Monthly surveys to document nesting activity, count numbers of chicks/fledglings/adults, and map active nesting areas. Surveys were conducted at all SD Bay metro bases including NASNI.	U.S. Navy 2009a
	March - September 2009: Monthly surveys to document nesting activity, count numbers of chicks/fledglings/adults, and map active nesting areas. Surveys were conducted at all SD Bay metro bases including NASNI.	U.S. Navy 2010a
	December 2011 - August 2012: Monthly surveys to document nesting activity, count numbers of chicks/fledglings/adults, and map active nesting areas. Surveys were conducted at all SD Bay metro bases including NASNI.	U.S. Navy 2013
Western Snowy Plover	1994–present: Birds were surveyed for distribution and abundance, breeding success, human disturbance, and banding combinations.	Copper 1997 Pers. Comm Copper 1997-2001 U.S. Navy 2010b Pers. Comm. Shepherd 2010
California Least Tern	1977 – present: NAS North Island was surveyed for California Least Tern nest distribution, abundance, and breeding success.	Copper and Patton 1999 Pers. Comm Copper 2000-2001 U.S. Navy 2010b Pers. Comm. Shepherd 2010
Burrowing Owl	1989-1996: Burrowing Owl surveys were conducted by Clark Winchell. Owls were banded and some telemetry work performed.	Pers. Comm. Winchell 2001a
	Management began again in 1999 and continues to the present. Owls are surveyed for number and location of breeding pairs and banded.	Pers. Comm. Winchell 2001b
	1999: Telemetry study was completed to determine home range sizes of NASNI Burrowing Owls.	Winchell and Pavelka 2004
	2001-present: Burrowing Owls counted by Billy Stewart of USDA-APHIS Wildlife Services (2001-2005). Status of all recently active burrows is recorded by USDA BASH biologist weekly during breeding season and every other week during non-breeding season (2006-present).	Pers. Comm. Stewart 2001 Pers. Comm. Shepherd 2013
Burrowing Owl	2006-2008: Owls monitored under cooperative agreement with University of Arizona. Activities were conducted on NASNI and NOLF and included surveying active owl nests, banding adults and chicks, establishing a comprehensive quarterly survey methodology, and preparing a draft management plan. Quarterly base-wide survey conducted 2007 to present.	Garcia and Conway 2010 Garcia et al. 2008 Garcia and Conway 2008 Pers. Comm. Shepherd 2013
MAMMALS	April - August 2005: general visual surveys, small mammal trapping, and scent stations were completed as part of the NR inventory effort.	U.S. Navy 2006a

Natural resources surveys completed on Naval Amphibious Base Coronado

Species	Project Duration and Objective	Source
WETLAND DELINEATIONS	2009 delineation completed at Silver Strand housing as part of NR inventory for metro housing areas.	U.S. Navy 2009c
	Remaining areas of NAB to be delineated as part of NR inventory effort scheduled for 2013	
PLANTS	2009: Rare and invasive plant surveys and vegetation mapping completed at Silver Strand housing as part of NR inventory for metro housing areas.	U.S. Navy 2009c
	Vegetation mapping, invasive survey, and comprehensive survey of rare plants to be completed as part of NR inventory effort scheduled for 2013	
	Rare plant surveys are conducted annually on NASNI, NAB/SSTC-N, and SSTC-S every year since 2005.	Pers. Comm. Munson 2013.
INVERTEBRATES	May 1996, two days. Invertebrate Surveys-pitfall traps and directed searching for globose dune beetles and two species of tiger beetle.	U.S. Navy 1996
	2009: Invertebrate survey completed at Silver Strand housing as part of NR inventory for metro housing areas.	U.S. Navy 2009c
	Comprehensive survey of terrestrial invertebrates to be completed as part of NR inventory effort scheduled for 2013.	
AMPHIBIANS and REPTILES	May 1996, three days. Amphibian and Reptile Surveys-surveyors slowly walked through native vegetation and identified animals by sight.	U.S. Navy 1996
	2009: Herp reconnaissance survey completed at Silver Strand housing as part of NR inventory for metro housing areas.	U.S. Navy 2009c
	Comprehensive reptile/amphibian survey to be completed as part of NR inventory effort scheduled for 2013.	
BIRDS	Feb-April 1996, four days. A general bird survey was conducted. Developed areas were briefly surveyed, with the bulk of the field efforts focused on natural areas (appear to be point surveys, looking with binoculars and listening for vocalizations).	U.S. Navy 1996
BIRDS	Oct-Nov 1981, three days. Ornithological field surveys and habitat evaluations were conducted. Surveys were done with binoculars and listening for vocalizations.	1982 Natural Resources Inventory of Naval Amphibious Base Coronado
	December 2010: General avian surveys conducted at Silver Strand housing as part of NR inventory for metro housing areas.	U.S. Navy 2009c
	Comprehensive avian survey to be completed as part of NR inventory effort scheduled for 2013.	
	March 2006 – February 2007: Comprehensive waterbird and shorebird surveys of San Diego Bay. Effort at NAB included three point counts along the shoreline and area searches of all shorebird habitats.	Tierra Data 2008
	March 2009 – February 2010: Comprehensive waterbird and shorebird surveys of San Diego Bay. Effort at NAB included three point counts along the shoreline and area searches of all shorebird habitats.	Tierra Data 2011

Natural resources surveys completed on Naval Amphibious Base Coronado

Species	Project Duration and Objective	Source
Western Snowy Plover	1992-present: Birds were surveyed for distribution and abundance, breeding success, human disturbance, and banding combinations.	Copper 1997 Pers. Comm Copper 1998-2000 U.S. Navy 2010b Pers. Comm. Shepherd 2013
California Least Tern	1978-present: NAB was surveyed for California Least Tern nests. Surveys on Delta Beach North began in 1978. Unclear when surveys at Delta Beach South were initiated but first nest was found in 1992. Surveys on NAB oceanside training lanes began in 1992.	Copper and Patton 1999 Pers. Comm Copper 2000-2001 U.S. Navy 2010b Pers. Comm. Shepherd 2013
MAMMALS	May 1996, two days. Small Mammal Trapping. Daytime surveys conducted by sight and live trapping.	U.S. Navy 1996
	Small mammal trapping on the portion of NAB that the California Department of Parks and Recreation leases.	U.S. Navy 1998
	2009: Mammal reconnaissance survey completed at Silver Strand housing as part of NR inventory for metro housing areas.	U.S. Navy 2009c
	Comprehensive mammal survey to be completed during NR inventory effort scheduled for 2013.	

Natural resources surveys completed on Silver Strand Training Complex South

Species	Project Duration and Objective	Source
WETLAND DELINEATIONS	April - July 2002: wetland delineation completed as part of the NR inventory effort.	U.S. Navy 2004
PLANTS	January - May 2002: Sensitive plant surveys and vegetation mapping completed during NR inventory.	U.S. Navy 2004
	Rare plant surveys are conducted annually on NASNI, NAB/SSTC-N, and SSTC-S every year since 2005.	Pers. Comm. Munson 2013.
	Spring - summer 2012: Rare and invasive plant surveys and vegetation mapping completed to support Coast Campus EIS. Did not include Camp Surf or biological study area.	Pers. Comm. Shepherd 2013
	Additional plant surveys, which will cover areas not completed as part of Coast Campus EIS, will be completed during NR inventory effort scheduled for 2013.	Pers. Comm. Shepherd 2013
INVERTEBRATES	May 1996, three days. Sensitive invertebrates-surveys consisted of pitfall trapping, aerial netting, and directed searches during the day for tiger beetles and sifting sand samples for globose dune beetles.	U.S. Navy 1998
	June - October 2002: Invertebrate surveys completed during NR inventory. Effort included live-trapping for nocturnally and diurnally active invertebrates on the beach, aerial netting, and directed searches for sensitive beetles.	U.S. Navy 2004
	Additional terrestrial invertebrate surveys throughout SSTC-S will be completed during NR inventory effort scheduled for 2013.	Pers. Comm. Shepherd 2013

Natural resources surveys completed on Silver Strand Training Complex South

Species	Project Duration and Objective	Source
San Diego fairy shrimp	January-May 2001 and February-May 2003: Presence/absence surveys for fairy shrimp were conducted on ephemeral pools and salt marshes.	Cobb 2003
	October 2010-May 2011: Presence/absence surveys for fairy shrimp were conducted within ephemeral pools and basins.	U.S. Navy 2012a
AMPHIBIANS and REPTILES	May 1996, two days. Surveys consisted of slowly walking through the native vegetation, animals identified by sight.	U.S. Navy 1998
	May 2002: Meandering transect surveys were completed as part of the NR inventory effort.	U.S. Navy 2004
	Additional reptile and amphibian surveys throughout SSTC-S will be completed during NR inventory effort scheduled for 2013.	Pers. Comm. Shepherd 2013
orange-throated whiptail	July 1995: Survey consisted of slowly walking through the native vegetation, animals identified by sight.	U.S. Navy 1998
BIRDS	March-April 1996, three days. General bird survey- birds surveyed by sight and by listening to vocalizations.	U.S. Navy 1998
	November 2001 - August 2002: Quarterly avian surveys conducted as part of NR inventory effort. Surveys were conducted using meandering transects.	U.S. Navy 2004
	March 2006 – February 2007: Comprehensive waterbird and shorebird surveys of San Diego Bay. Effort at SSTC-S included a point count within the biological study area and area searches of all shorebird habitats.	Tierra Data 2008
BIRDS	March 2009 – February 2010: Comprehensive waterbird and shorebird surveys of San Diego Bay. Effort at SSTC-S included a point count within the biological study area, a point count in the southern part of SSTC-S, and area searches of all shorebird habitats.	Tierra Data 2011
	Spring 2012 - January 2013: General avian surveys completed to support Coast Campus EIS. Surveys included point counts and area searches. Did not include Camp Surf or biological study area.	AECOM 2012a
	Additional avian surveys, which will cover areas not completed as part of Coast Campus EIS, will be completed during NR inventory effort scheduled for 2013.	
Light-footed Clapper Rail	The Light-footed Clapper Rail is monitored annually in the biological study area as part of a state-wide effort.	CDFG 2010
	March – July 2005: Focused surveys for Clapper Rail were conducted within the biological study area.	Hoffman 2007
Western Snowy Plover	1994-present: The number of plovers was recorded, gender was determined when possible and behavior was identified. Nest monitoring was initiated in 1994 and is conducted annually.	Copper 1999 Pers. Comm Copper 2000-2001 U.S. Navy 2010b Pers. Comm. Shepherd 2013

Natural resources surveys completed on Silver Strand Training Complex South

Species	Project Duration and Objective	Source
MAMMALS	Surveys were conducted concurrently with other directed searches. Signs of mammals were looked for, (i.e. tracks, scat, and burrows).	U.S. Navy 1998
	July 2002: Reconnaissance mammal surveys conducted as part of NR inventory effort. Did not include bats.	U.S. Navy 2004
	August and October 2012: Focused bat surveys using AnaBat™ Bat Detectors, thermal imaging cameras, and roost searches were completed to support Coast Campus EIS. Did not include Camp Surf or biological study area.	AECOM 2012b
	Additional mammal (including bat) surveys, which will cover areas not completed as part of Coast Campus EIS, will be completed during NR inventory effort scheduled for 2013.	Pers. Comm. Shepherd 2013
Pacific Pocket Mouse	July 2002: Focused PPM trapping was conducted as part of the NR inventory effort.	U.S. Navy 2004
	July 2012: Focused PPM trapping was conducted to support Coast Campus EIS.	Ramirez 2012

Natural resources surveys completed on Naval Outlying Landing Field Imperial Beach

Species	Project Duration and Objective	Source
WETLAND DELINEATIONS	May 2002 – June 2004: Delineation performed as part of a NR inventory.	U.S. Navy 2006b
	March 2010 – March 2011: Delineation performed as part of a NR inventory.	U.S. Navy 2011
PLANTS	February 2002 - June 2004: Rare plant surveys and vegetation mapping completed as part of a NR inventory.	U.S. Navy 2006b
	April 2009 – July 2010: Rare and invasive plant surveys and vegetation mapping completed as part of NR inventory.	U.S. Navy 2011
INVERTEBRATES	Benthic invertebrates are monitored annually at the Tijuana River Estuarine Reserve.	CONCUR 1999
	June 2002 – June 2004: Terrestrial invertebrate survey conducted as part of NR inventory. Methods included direct sampling, leaf litter sampling, pitfall trap sampling, and black-light pitfall sampling	U.S. Navy 2006b
	May 2009 – September 2009: Terrestrial invertebrates were surveyed as part of the NR inventory at seven sampling locations using a variety of methods at each sample site. Methods included sticky strips, pitfall trap, sweep netting, black-light trap, and visual surveys for macro-invertebrates.	U.S. Navy 2011
	September 2009: Aquatic invertebrates were sampled at three stations as part of the NR inventory.	U.S. Navy 2011
FISH	Fish are monitored quarterly in the Tijuana River Estuarine Reserve.	CONCUR 1999
	September 2009: Fish were sampled at three stations as part of the NR inventory.	U.S. Navy 2011

Natural resources surveys completed on Naval Outlying Landing Field Imperial Beach

Species	Project Duration and Objective	Source
AMPHIBIANS and REPTILES	Herpetofauna is monitored annually in the Tijuana River Estuarine Reserve.	CONCUR 1999
	May 2002 – July 2002: Reptile and amphibians survey completed as part of a NR inventory.	U.S. Navy 2006b
	January 2009 – September 2009: Reptile and amphibian surveys were completed using pitfall traps and shelter boards as part of the NR inventory.	U.S. Navy 2011
BIRDS	1987-General bird species list based on a survey by-Paul Jorgensen (CDFG).	Wagoner and Grizzle 1989
	January 2002 – October 2002: General avian surveys conducted using walking transects as part of the NR inventory.	U.S. Navy 2006b
	March 2009 – December 2009: General avian day and night surveys were conducted using walking transects as part of the NR inventory.	U.S. Navy 2011
	Annually 2009 – present: A MAPS banding station is run within the riparian area on NOLF IB from May through August each year in order to monitor the productivity and survival of migratory birds.	AMEC 2011
BIRDS	November 1999-March 2000-(Wildlife Hazard Assessment), 13 separate surveys, 4 days from 1 week a month. Bird abundance and activity patterns on airfield were surveyed using time-area counts and incidental sightings at eight stations on the outlying edge of NOLF IB.	USDA 2000
	May 2006 – present. BASH biologist (USDA Wildlife Services) conducts Airport Wildlife Hazard Surveys twice each month at NASNI and NOLF IB. Surveys are conducted at eight survey stations around each airfield three times throughout the day at dawn, midday, and dusk.	USDA Wildlife Services 2010
Light-footed Clapper Rail	1979, 1981. Clapper Rail censusing and nesting studies for Tijuana Marsh used high tide counts, nest and breeding activity, and mapped vocalizing rails in spring.	Jorgensen 1979, 1981.
	The Light-footed Clapper Rail is monitored annually in the Tijuana River Estuarine Reserve as part of a state-wide effort.	CDFG 2010
	March – April 2005: Focused surveys for Clapper Rail were conducted within NOLF IB.	Hoffman 2007
California Least Tern	The California Least Tern Is monitored annually in the Tijuana River Estuarine Reserve.	CONCUR 1999.
Belding’s Savannah Sparrow	Belding’s Savannah Sparrow is monitored annually in the Tijuana River Estuarine Reserve.	CONCUR 1999
Least Bell’s Vireo	April – July 2009: Protocol presence/absence surveys were conducted for the vireo within NOLF IB. Effort also included limited nest monitoring and observation of banded birds.	U.S. Navy 2011
	April – July 2012: Protocol presence/absence surveys were conducted for the vireo within NOLF IB.	Arnold and Clune 2012

Natural resources surveys completed on Naval Outlying Landing Field Imperial Beach

Species	Project Duration and Objective	Source
Southwestern Willow Flycatcher	April – July 2009: Protocol presence/absence surveys were conducted for the flycatcher within NOLF IB.	U.S. Navy 2011
	April – July 2012: Protocol presence/absence surveys were conducted for the flycatcher within NOLF IB.	Arnold and Clune 2012
Burrowing Owl	2001-present: Burrowing Owls counted by USDA Wildlife Services BASH biologist (2001-2005). Status of all recently active burrows is recorded by USDA BASH biologist weekly during breeding season and every other week during non-breeding season (2006-present).	Pers. Comm. Stewart 2001 Pers. Comm. Shepherd 2013
	2006-2008: Owls monitored under cooperative agreement with University of Arizona. Activities were conducted on NASNI and NOLF and included surveying active owl nests, banding adults and chicks, establishing a comprehensive quarterly survey methodology, and preparing a draft management plan. Quarterly base-wide survey conducted 2007 to present.	Garcia and Conway 2010 Garcia et al. 2008 Garcia and Conway 2008 Pers. Comm. Shepherd 2013
MAMMALS	November 1999-October 2000, 12 night surveys. Mammals were surveyed for the Wildlife Hazard Assessment using nighttime spotlight counts, surveying a strip on either side of the route used for the time-area bird counts described above.	USDA 2000
	Small mammals are trapped periodically in the Tijuana River Estuarine Reserve.	CONCUR 1999
	November 2005: Bat monitoring at NOLF IB occurred at three passive stations, along four transects and at seven potential bat roosts as part of the NR inventory	U.S. Navy 2006b
	March 2009 – October 2009: During the NR inventory, large mammal surveys were conducted using walking transects and baited motion-sensor night cameras, small mammal surveys were conducted using Sherman live-traps, and bat surveys were conducted using Anabat and roost surveys.	U.S. Navy 2011
Pacific Pocket Mouse	August 2002: Survey for small mammals with a focus on PPM was conducted as part of the NR inventory effort.	U.S. Navy 2006b

Natural resources surveys completed on Camp Michael Monsoor and Camp Morena.

Species	Project Duration and Objective	Source
GENERAL	Camp Michael Monsoor - A general survey focused effort on locating listed species or suitable habitat for listed species but failed to find any.	USDoN SWDIV 1998
	Camp Michael Monsoor – A survey effort focused on general wildlife, rare plants, and vegetation mapping was conducted to support the development of the 2007 EA for training and construction of P-781.	U.S. Navy 2007b
WETLAND DELINEATIONS	Camp Morena, April 2009: Wetland delineation completed as part of NR inventory.	U.S. Navy 2009b
	Camp Michael Monsoor – wetland delineation associated with development of the 2007 EA for training and construction of P-781	U.S. Navy 2007b

Natural resources surveys completed on Camp Michael Monsoor and Camp Morena.

Species	Project Duration and Objective	Source
PLANTS	Camp Morena, November 2008 – June 2009: Rare plant surveys and vegetation mapping completed as part of NR inventory.	U.S. Navy 2009b
INVERTEBRATES	Camp Morena - No systematic invertebrate inventories are known.	
	Camp Michael Monsoor - No systematic invertebrate surveys are known.	
Quino Checkerspot Butterfly	Camp Morena, March – April 2009: protocol surveys were conducted to look for QCB.	U.S. Navy 2009b
	Camp Michael Monsoor – February 2004: QCB Habitat assessment in Existing Withdrawal and Parcels C and G.	U.S. Navy 2005
	Camp Michael Monsoor – March/April 2004: QCB presence/absence protocol survey in portions of the Existing Withdrawal and Parcel C.	U.S. Navy 2005
	Camp Michael Monsoor – June 2004: Habitat assessment in Parcel E.	U.S. Navy 2005
	Camp Michael Monsoor – April/May 2006: QCB presence/absence protocol surveys in previously unsurveyed portion of Existing Withdrawal and Parcels E and G.	RECON 2006
	Camp Michael Monsoor – May 2006: QCB host plants focused surveys in portions of Parcel C.	RECON 2006
	Camp Michael Monsoor – March and May 2007: QCB presence/ absence protocol surveys in previously unsurveyed portions of the Existing Withdrawal and Parcel C.	RECON 2007
	Camp Michael Monsoor – March/April 2008: QCB presence/absence protocol surveys in portions of Parcel C, the Existing Withdrawal, Parcel E, and Parcel G.	U.S. Navy 2008
	Camp Michael Monsoor – April/May 2008: QCB eggs and pre-diapause larvae focused survey in portions of Parcel C.	U.S. Navy 2008
	Camp Michael Monsoor – Spring 2010: protocol surveys were conducted for QCB.	U.S. Navy 2010c
	Camp Michael Monsoor – March/April/May 2010: QCB habitat assessment and presence/absence protocol survey in 670 acres fragmented throughout the installation.	U.S. Navy 2010c
	Camp Michael Monsoor – April/May 2012: QCB host and nectar plants focused survey along front fence and La Posta Road, range 110 reorientation, West Utilities Road, and Parcel C Warfare Training Facility.	U.S. Navy 2012b
	AMPHIBIANS and REPTILES	Camp Morena, March – June 2009: Herpetofauna surveys conducted using meandering transects as part of the NR inventory.
Camp Michael Monsoor - No systematic reptile and amphibian inventories are known.		
BIRDS	Camp Morena, November 2008 – June 2009: General avian surveys conducted using meandering transects (day and night-time) as part of the NR inventory.	U.S. Navy 2009b
	Camp Michael Monsoor, January – October 2012. Focused project-level bird surveys conducted in support of the P-888 EA.	Ecology and Environment 2012
	Camp Michael Monsoor - no systematic avian inventories are known.	

Natural resources surveys completed on Camp Michael Monsoor and Camp Morena.

Species	Project Duration and Objective	Source
MAMMALS	Camp Morena, February – June 2009: Ocular reconnaissance and small mammal trapping conducted as part of the NR inventory. Included visual searches for bats.	U.S. Navy 2009b
	Camp Michael Monsoor - no systematic mammal inventories are known.	

Natural resources surveys completed on Remote Training Site Warner Springs.

Species	Project Duration and Objective	Source
GENERAL	A general survey focused effort on locating listed species or suitable habitat for listed species but failed to find any.	USDoN SWDIV 1998
WETLAND DELINEATIONS	April – October 2006: Wetland delineation of USFS exclusive use area surrounding SERE compound.	U.S. Navy 2007a
PLANTS	2006: Vegetation maps developed from aerial photography and ground-truthing as part of the NR inventory effort.	U.S. Navy 2007a
INVERTEBRATES	2006: Invertebrates were sampled at seven sites representing the various vegetation types as part of the NR inventory. Sampling methods at each site included: pan traps, sweep netting, blacklight traps, sticky traps, and Pollard walks. NR inventory	U.S. Navy 2007a
Quino Checkerspot Butterfly	Habitat assessment for QCB conducted January – February 2005 followed by protocol QCB surveys during Spring 2006 within highest quality habitat (1,000 acres) as part of NR inventory.	U.S. Navy 2007a
	Spring 2011: Protocol surveys were conducted to look for QCB.	U.S. Navy 2012a
FISH	January and May 2006: Seine netting for fishes was conducted in the only perennial waters at RTSWS, the West Fork, as part of the NR inventory effort.	U.S. Navy 2007a
AMPHIBIANS and REPTILES	February – September 2006: general surveys for herpetofauna conducted as part of the NR inventory.	U.S. Navy 2007a
Arroyo Toad	April – June 2006: Protocol surveys for Arroyo Toad were conducted as part of the NR inventory effort.	U.S. Navy 2007a
	April – August 2010: Arroyo Toad monitoring conducted by U.S. Geological Survey. Included development of a triennial Arroyo Toad population monitoring methodology for RTSWS.	U.S. Navy 2010d
Western Pond Turtle	2010: Focused trapping conducted for one week at West Fork. Work was conducted by USGS during Arroyo Toad surveys.	U.S. Navy 2010d
BIRDS	December 2005 – September 2006: For two to three consecutive days a month, a total of 28 visits were made to survey for general avifauna as part of the NR inventory.	U.S. Navy 2007a
	Spring – fall 2013: A MAPS banding station will be initiated at RTSWS followed by a fall migration study.	Pers. Comm. Shepherd 2013
Least Bell's Vireo	May – August 2006: Protocol presence/absence surveys conducted for the vireo during the NR inventory effort.	U.S. Navy 2007a
Southwestern Willow Flycatcher	May – July 2006: Protocol presence/absence surveys conducted for the flycatcher during the NR inventory effort.	U.S. Navy 2007a

Natural resources surveys completed on Remote Training Site Warner Springs.

Species	Project Duration and Objective	Source
MAMMALS	2006: General surveys for mammals, which included small mammal trapping and incidental observations, were conducted as part of the NR inventory.	U.S. Navy 2007a
Stephens' Kangaroo Rat	April and October 2006: Protocol surveys were conducted during the NR inventory to determine presence/absence of SKR.	U.S. Navy 2007a
	Fall 2010 and summer 2011: SKR monitoring conducted by U.S. Geological Survey. Included development of a triennial SKR population monitoring methodology for RTSWS.	U.S. Navy 2011i

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Pers. Comm Copper 1997-2001	Copper, E. 1997. The status of the western snowy plover at Naval Air Station, North Island, Coronado from November 1994 through December 1995. Unpublished report prepared for the Natural Resources Management Branch, Southwest Division Naval Facilities Engineering Command, San Diego, California.
Pers. Comm Copper 2000-2001	Ornithologist. Consultant. Coronado, California. Personal communication.
Pers. Comm. Munson 2013	Comment Response Matrix, NBC Pre Draft INRMP Consolidated CRM, 110111 Comprehensive January 3-June 29. Comment 388.
Pers. Comm. Shepherd 2010	Shepherd, T. 2010. Information Request for NBC INRMP Chapters. August 20, 2010.
Pers. Comm. Shepherd 2013	Burrowing Owls counted by Billy Stewart of USDA-APHIS Wildlife Services (2001-2005). Status of all recently active burrows is recorded by USDA BASH biologist weekly during breeding season and every other week during non-breeding season (2006-present).
Pers. Comm. Stewart 2001	Burrowing Owls counted by Billy Stewart of USDA-APHIS Wildlife Services (2001-2005). Status of all recently active burrows is recorded by USDA BASH biologist weekly during breeding season and every other week during non-breeding season (2006-present).
Pers. Comm. Winchell 2001a	Burrowing Owl surveys were conducted by Clark Winchell. Owls were banded and some telemetry work performed.
Pers. Comm. Winchell 2001b	Management began again in 1999 and continues to the present. Owls are surveyed for number and location of breeding pairs and banded.
Ramirez 2012	Ramirez, R. 2012. Naval Base Coronado Coastal Campus Project Pacific Pocket Mouse (<i>Perognathus longimembris pacificus</i>) 45-Day Summary Report, San Diego County, California. 28 Sept 2012.
RECON 2006	Final 2006 Quino Checkerspot Butterfly Survey Results on a Portion of La Posta Mountain Warfare Training Facility, Campo, California Prepared for Prepared by Kimberly O'Connor RECON Environmental, Inc. Botany Program Manager 1927 Fifth Avenue Commander, Navy Region Southwest San Diego, CA 92101-2358
RECON 2007	2007 Quino Checkerspot Butterfly Post-survey Report for La Posta Mountain Warfare Training Facility, Campo, California Prepared for Prepared by Kimberly O'Connor RECON Environmental, Inc. Botanist, Natural Resources Office 1927 Fifth Avenue Commander, Navy Region Southwest San Diego, CA 92101-2358
Tierra Data 2000	Surveys and Management Plan for Great Blue Herons and Black-Crowned Night-Herons NAS North Island, California (Draft). Prepared for USDoN SWDIV and Natural Resources Office, NASNI. San Diego, California. Prepared by Tierra Data, Inc. 2000.

Tierra Data 2008	San Diego Bay Avian Species Survey 2006-2007. Prepared for the U.S. Department of the Navy, Commander Navy Region Southwest and the San Diego Unified Port District, San Diego, California. 2008. Prepared by Tierra Data, Inc.
Tierra Data 2011	San Diego Bay Avian Species Survey 2009-2010. Prepared by Tierra Data, Inc.
U.S. Navy 1996	Natural Resources Management Plan for the Naval Station, San Diego. Prepared by RECON. San Diego, CA.
U.S. Navy 1998	Final Integrated Natural Resources Management Plan for the Naval Radio Receiving Facility Imperial Beach, California. Prepared by RECON. San Diego, CA.
U.S. Navy 2004	Final Biological Resources Survey Report for the Naval Radio Receiving Facility, Naval Base Coronado, San Diego, California. February 2004.
U.S. Navy 2005	Predator Management to Protect the California Least Tern and Western Snowy Plover Nest Sites at Naval Base Coronado, 2005 Final Report. 2005.
U.S. Navy 2006a	Natural Resources Inventory Report for Naval Air Station North Island, Naval Base Coronado, San Diego, California. April 12, 2006.
U.S. Navy 2006b	Naval Outlying Landing Field, Imperial Beach, Naval Base Coronado Natural Resources Inventory Final Report. June 2006.
U.S. Navy 2007a	Biological Resources Surveys 2005-2006, Remote Training Site Warner Springs, CA. July 2007.
U.S. Navy 2007b	Final La Posta Mountain Warfare Training Facility Environmental Assessment, San Diego, California. June 2007.
U.S. Navy 2008	Final La Posta Mountain Warfare Training Facility Environmental Assessment. February 2008.
U.S. Navy 2009a	Heron and Egret Surveys for Navy Bases in San Diego Metropolitan Areas, San Diego, CA. Final report prepared by ICF Jones and Stokes. 90 pages.
U.S. Navy 2009b	Natural Resource Inventory, Camp Morena, California. July 2009.
U.S. Navy 2009c	Draft Final Report for the Natural Resources Baseline Inventory for the Navy San Diego Metro Housing Areas at Naval Base San Diego, Naval Base Coronado, and Naval Base Point Loma, San Diego County, California. November 2009.
U.S. Navy 2010a	Heron and Egret Surveys for Navy Bases in San Diego Metropolitan Areas, San Diego, CA. Final report prepared by ICF Jones and Stokes. 123 pages.
U.S. Navy 2010b	The Status of the California Least Tern and Western Snowy Plover at Naval Base Coronado, San Diego, California; 2006. January 2010.
U.S. Navy 2010c	Quino Checkerspot Butterfly Survey report, Camp Michael Monsoor, California. Prepared by ICF International. December 2010.
U.S. Navy 2010c	Quino Checkerspot Butterfly Survey report, Camp Michael Monsoor, California. Prepared by ICF International. December 2010.
U.S. Navy 2010d	Arroyo Toad Monitoring Results at Naval Base Coronado, Remote Training Site, Warner Springs 2010. Prepared by: USGS Western Ecological Research Center. Sacramento, California 2011.
U.S. Navy 2011	Biological Resources Surveys 2009-2010. Naval Base Coronado, Naval Outlying Field Imperial Beach, California. Prepared by Tierra Data Inc. September 2011.
U.S. Navy 2012a	ICF International. 2012. Results of Protocol Surveys for Listed Fairy Shrimp, Silver Strand Training South, Naval Base Coronado. Draft. February. Prepared for Naval Facilities Engineering Command Southwest.
U.S. Navy 2012b	SSTC EIS Record of Decision for Final Environmental Impact Statement for the Silver Strand Training Complex, San Diego California. Signed 21 Aug 2012
U.S. Navy 2013	Heron and Egret Surveys for Navy Bases in San Diego Metropolitan Areas, San Diego, CA. Draft report prepared by ICF Jones and Stokes. In prep.
USDA 2000	U.S. Department of Agriculture (USDA) Wildlife Hazard Assessment for the Naval Outlying Field, Imperial Beach. 200. San Diego, California.

USDA Wildlife Services 2000	U.S. Department of Agriculture. Wildlife Hazard Assessment for the Naval Outlying Field, Imperial Beach. 2000. San Diego County, CA.
USDA Wildlife Services 2010	Comprehensive Bird/Animal Aircraft Strike Hazard (BASH) Program at Naval Base Coronado, San Diego, CA. 2010 Final Report. 78 pages
USDoN SWDIV 1998	
USFWS 1996	1995: Surveys included nest and roost site surveillance and bird banding.
Wagoner and Grizzle	Wagoner, Benjamin and B.J. Grizzle. 1989. Natural Resources Management Plan, Naval Outlying Landing Field, Imperial Beach, CA.
Winchell and Pavelka 2004	Surveys to determine the home range of Burrowing Owls on Naval Air Station North Island, Naval Base Coronado. U.S. Fish and Wildlife Service.