

**APPENDIX A.  
INTERGOVERNMENTAL COORDINATION, PUBLIC AND AGENCY PARTICIPATION**

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## Mailing List

USFWS – Nevada Fish and Wildlife Office  
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Reno, NV 89502

Glen W. Knowles, Field Supervisor  
US Fish and Wildlife Service  
Southern Nevada Fish and Wildlife  
4701 North Torrey Pines Drive  
Las Vegas, NV 89130

Kevin J. DesRoberts, Project Leader  
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Desert National Wildlife Refuge  
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US Army Corps of Engineers  
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915 Wilshire Boulevard, Suite 1101  
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US Army Corps of Engineers  
Arizona-Nevada Area Office  
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USDA Natural Resources Conservation Service  
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Mary Farnsworth, Acting Regional Forester  
US Forest Service  
Intermountain Region (Region 4)  
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Las Vegas Service Center  
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160 N. Stephanie Street  
Henderson, NV 89074

Douglas Furtado, District Manager  
BLM – Battle Mountain District  
50 Bastian Road  
Battle Mountain, NV 89820

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Alan Jenne, Director  
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Kacey KC, State Forester  
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Adria DeCorte  
Resource Management Officer  
Nevada Department of Forestry  
Las Vegas Office  
4747 Vegas Drive  
Las Vegas, NV 89108

Mark Blankensop, Forestry Program Manager  
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4747 Vegas Drive  
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Kristin Szabo, Administrator  
Nevada Natural Heritage Program  
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Carson City, NV 89701

James B. Gibson, Chairperson  
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500 Grand Central Parkway  
Las Vegas, NV 89109

Jacob Snow, General Manager  
Regional Transportation  
Commission of Southern Nevada  
600 S. Grand Central Parkway  
Suite 350  
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Martyn James, Director of Planning Services  
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Gregory Blackburn, Director  
City of North Las Vegas  
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Irene Bustamante Adams  
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Clark County School District  
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Jennifer Olsen  
Southern Nevada Regional Planning  
240 Water Street, Mail Stop 115  
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Mark Farmer, Habitat Manager  
Utah Division of Wildlife Resources  
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2369 Orton Circle, Suite 50  
West Valley City, UT 84119

Jamie Barnes, State Forester/Director  
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533 West 2600 South, Suite 150  
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Elise Anne Boeke  
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125 S. State St, Room 4010  
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2329 Orton Circle  
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Weber County Commission  
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Weber County Commission  
2380 Washington Blvd Suite 360  
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Ogden Planning Commission  
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Ogden Transit Center  
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Environmental Program Coordinator  
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PO Box 144840  
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5320 Adams Ave Pkwy.  
Ogden, UT 84405

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Utah Department of Transportation  
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Environmental & Sustainability  
4701 W. Russell Road, Suite 200  
Las Vegas, NV 89118

Cheyenne Stone, Chairperson  
Big Pine Paiute Tribe of the Owens Valley  
PO Box 700  
Big Pine, CA 93513

Maryl Picard, Chairperson  
Bishop Paiute Tribe  
50 Tusu Lane  
Bishop, CA 93514

Glenn Lodge, Chairperson  
Chemehuevi Indian Tribe of the Chemehuevi  
Reservation, California  
PO Box 1976  
Havasu Lake, CA 92363

Amelia Flores, Chairperson  
Colorado River Indian Tribes of the Colorado  
River Indian Reservation, Arizona and California  
26600 Mohave Road  
Parker, AZ 85344

Warren Graham, Chairperson  
Duckwater Shoshone Tribe of the Duckwater  
Reservation, Nevada  
P.O. Box 140068  
Duckwater, NV 89314

Diana Buckner, Chairperson  
Ely Shoshone Tribe of Nevada  
250 Heritage Drive #B  
Ely, NV 89301

Carl Dahlberg, Chairperson  
Fort Independence Indian Community of Paiute  
Indians of the Fort Independence Reservation,  
California  
PO Box 67  
Independence, CA 93526

Timothy Williams, Chairperson  
Fort Mojave Indian Tribe of Arizona, California,  
and Nevada  
500 Merriman Avenue  
Needles, CA 92363

Roland Maldonado, Chairperson  
Kaibab Band of Paiute Indians of the Kaibab  
Indian Reservation, Arizona  
HC 65 Box 2  
Fredonia, AZ 86022

Deryn Pete, Chairperson  
Las Vegas Tribe of Paiute Indians of Las Vegas  
Indian Colony, Nevada  
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Las Vegas, NV 89106

Janet Hansen, Chairperson  
Lone Pine Paiute-Shoshone Tribe  
PO Box 747  
Lone Pine, CA 93545

Janet Myers, Chairperson  
Moapa Band of Paiute Indians  
PO Box 340  
Moapa, NV 89025

Corrina Bow, Chairperson  
Paiute Indian Tribe of Utah (Cedar Band of  
Paiutes, Kanosh Band of Paiutes, Koosharen  
Band of Paiutes, Indian Peaks Band of Paiutes,  
and Sivwits Band of Paiutes)  
440 North Paiute Drive  
Cedar City, UT 84721

George Gholson, Chairperson  
Timbisha Shoshone Tribe  
621 West Line St. Suite 109  
Bishop, CA 93514

Shane Saulque, Chairperson  
Utu Utu Gwaitu Paiute Tribe of the Benton  
Paiute Reservation, California  
25669 Highway 6, PMB I  
Benton, CA 93512

Darryl Brady, Chairperson  
Yomba Shoshone Tribe of the Yomba Reservation, Nevada  
HC 61, Box 6275  
Austin, NV 89310



**DEPARTMENT OF THE AIR FORCE  
99TH CIVIL ENGINEER SQUADRON (ACC)  
NELLIS AIR FORCE BASE, NEVADA**

19 July 2023

99 CES/CENP  
6020 Beale Avenue  
Nellis AFB, NV 89191-6520

US Army Corps of Engineers – Los Angeles  
915 Wilshire Boulevard, Suite 1101  
Los Angeles CA 90017

Dear Sir/Madam

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) in accordance with the National Environmental Policy Act to evaluate the potential impacts associated with implementing projects proposed in the 2024–2029 Integrated Natural Resources Management Plan (INRMP) within Nellis Air Force Base (AFB) and the Nevada Test and Training Range (NTTR).

**Proposed Action**

These projects include conducting survey work for identified taxa; installing and maintaining equipment such as cameras and acoustic monitors; treating invasive species with approved herbicides; monitoring water quality parameters; trapping and releasing species according to state and federal permit requirements; conducting habitat restoration projects for the benefit of special-status species; installing and monitoring exclusionary fences around sensitive areas; maintaining permits for flight safety; conducting hazardous fuel reduction projects to reduce the threats of wildland fire; updating the Natural Resources Management Database to inform management decisions; and conducting educational outreach. Taking into account various environmental concerns, the Air Force is engaging early with the appropriate resource and regulatory agencies as it formulates the Proposed Action. A project location map of the bases impacted by the Proposed Action is provided in an **Attachment** to this letter.

**Purpose and Need**

The overall purpose of the Proposed Action is to guide and document the manner in which Nellis AFB and the NTTR manage natural resources while supporting the military mission. The INRMP has established long-term goals, objectives, and projects for management and protection of natural resource assets integral to carrying out the military mission and provides guidance on avoiding impacts to natural resources during the planning, designing, and management phases of new construction/expansion projects when practicable. The Proposed Action is needed to ensure that Nellis AFB and the NTTR remain in compliance with the Sikes Act (Public Law 86-797) as amended, Air Force Manual 32-7003, *Environmental Conservation*, Air Force Policy Directive 32-70, *Environmental Considerations in Air Force Programs and Activities*, and Department of Defense Instruction (DoDI) 4715.03, *Natural Resources Conservation Program*. The INRMP provides an important tool that is referenced during the planning, design, and construction phases

of construction/ expansion projects occurring on the installations and ensures that natural resources are considered during planning, site selection, and decision-making processes.

### **Environmental Assessment**

The EA will assess the potential environmental consequences associated with the Proposed Action and No Action Alternative. Potential impacts identified during the initial planning stages include effects on noise; safety; air quality; biological, water, visual, and cultural resources; soils; land use; socioeconomics; environmental justice and protection of children; hazardous materials and wastes, toxic substances, and contaminated sites; and infrastructure, transportation, and utilities. The EA will also examine the cumulative effects when combined with past, present, and reasonably foreseeable environmental trends and future actions within the project area. In support of this process, we request your input in identifying general or specific issues or areas of concern you believe should be addressed in the EA.

We intend to notify your office when the Draft EA is completed. Additionally, electronic copies of the Draft EA will be available at <https://www.nellis.af.mil/Public-Affairs/Community-Engagement/Partnerships/Environment/>. So that we remain on schedule to complete the environmental impact analysis process in a timely manner, we are requesting your response no later than 30 days from receipt of this correspondence. Please send your response via postal mail or email (preferred) to:

**ATTN: Mr. Tod Oppenborn**  
NEPA Project Manager  
99 CES/CENPP  
6020 Beale Avenue  
Nellis AFB, NV 89191-6520  
Email: [tod.oppenborn@us.af.mil](mailto:tod.oppenborn@us.af.mil)  
Phone: (702) 652-9366

The Air Force appreciates your interest in and support of its military mission. We thank you in advance for your assistance and look forward to your response.

Sincerely,

ROWLAND.CHARLES.W.JR.10734381  
ES.W.JR.10734381  
24

Digitally signed by  
ROWLAND.CHARLES.W.JR.107  
3438124  
Date: 2023.06.15 14:50:25 -0700

CHARLES W. ROWLAND JR.  
Chief, Portfolio Optimization

Attachment:

1. Project Location Map





**DEPARTMENT OF THE AIR FORCE  
99TH CIVIL ENGINEER SQUADRON (ACC)  
NELLIS AIR FORCE BASE, NEVADA**

July 10, 2023

Lieutenant Colonel Eric S. Rosenlof, USAF  
Commander  
99th Civil Engineer Squadron  
6020 Beale Ave.  
Nellis AFB NV 89191

Honorable Meryl Picard  
Bishop Paiute Tribe  
50 Tu Su Lane  
Bishop CA 93514-8058

Dear Chairperson Picard:

The United States Air Force (Air Force) is preparing an Environmental Assessment (EA) in accordance with the *National Environmental Policy Act* to evaluate the potential impacts of implementing projects proposed in the *2024–2029 Integrated Natural Resources Management Plan* (INRMP) within Nellis Air Force Base (AFB) and the Nevada Test and Training Range (NTTR). These projects include conducting survey work for identified taxa, installing and maintaining equipment such as cameras and acoustic monitors, treating invasive species with approved herbicides, monitoring water quality parameters, trapping and releasing species according to state and federal permit requirements, conducting habitat restoration projects for the benefit of special-status species, installing and monitoring exclusionary fences around sensitive areas, maintaining permits for flight safety, conducting hazardous fuel reduction projects to reduce the threats of wildland fire, updating the Natural Resources Management Database to inform management decisions, and conducting educational outreach. A project location map of the bases impacted by the Proposed Action is provided as Attachment 1 to this letter. To consider possible environmental concerns, the Air Force is engaging early with the Bishop Paiute Tribe as it formulates the Proposed Action.

The overall purpose of the Proposed Action is to guide and document the manner in which Nellis AFB and the NTTR manage natural resources while supporting the military mission. The INRMP has established long-term goals, objectives, and projects for management and protection of natural resource assets integral to carrying out the military mission and provides guidance on avoiding impacts to natural resources during the planning, designing, and management phases of new construction/expansion projects when practicable. The Proposed Action is needed to ensure that Nellis AFB and the NTTR remain in compliance with the *Sikes Act* (Public Law 86-797) as amended, Air Force Manual 32-7003, *Environmental Conservation*, Air Force Policy Directive 32-70, *Environmental Considerations in Air Force Programs and Activities*, and Department of Defense Instruction 4715.03, *Natural Resources Conservation Program*.

The EA will assess the potential environmental consequences of the Proposed Action and No Action Alternative. Potential impacts identified during the initial planning stages include effects on noise; safety; air quality; biological, water, visual, and cultural resources; soils; land use; socioeconomics; environmental justice and protection of children; hazardous materials and wastes, toxic substances, and contaminated sites; and infrastructure, transportation, and utilities. The EA also will examine the cumulative effects when combined with past, present, and reasonably foreseeable environmental trends and future actions within the project areas. In support of this process, we request your input in identifying general or specific issues or areas of concern you believe should be addressed in the EA.

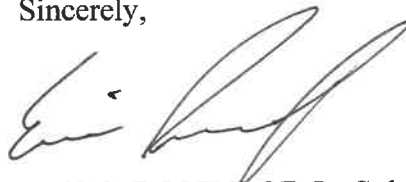
Pursuant to Executive Order 13175, *Consultation and Coordination With Indian Tribal Governments*, the Air Force seeks to initiate government-to-government consultation with Federally recognized Tribes on the Proposed Action. The Air Force invites you to provide information on any properties of historic, religious, or cultural significance that may be affected by the Proposed Action. The Air Force will make every effort, consistent with the law, to withhold from the public the disclosure of information that the Tribes identify as confidential.

We intend to notify you when the Draft EA is completed. So that we remain on schedule to complete the environmental impact analysis process in a timely manner, we are requesting your response no later than 30 days from receipt of this correspondence. Please send your response to:

ATTN: Ms. Catherine Vaughn  
Cultural Resources Program Manager  
USAF ACC 99 CES/CEIEA  
6020 Beale Ave Bldg 812 Ste 122  
Nellis AFB NV 89191-7260  
Email: catherine.vaughn@us.af.mil  
Phone: (702) 652-6097

The Air Force appreciates your interest in and support of its military mission. We thank you in advance for your assistance and look forward to your response.

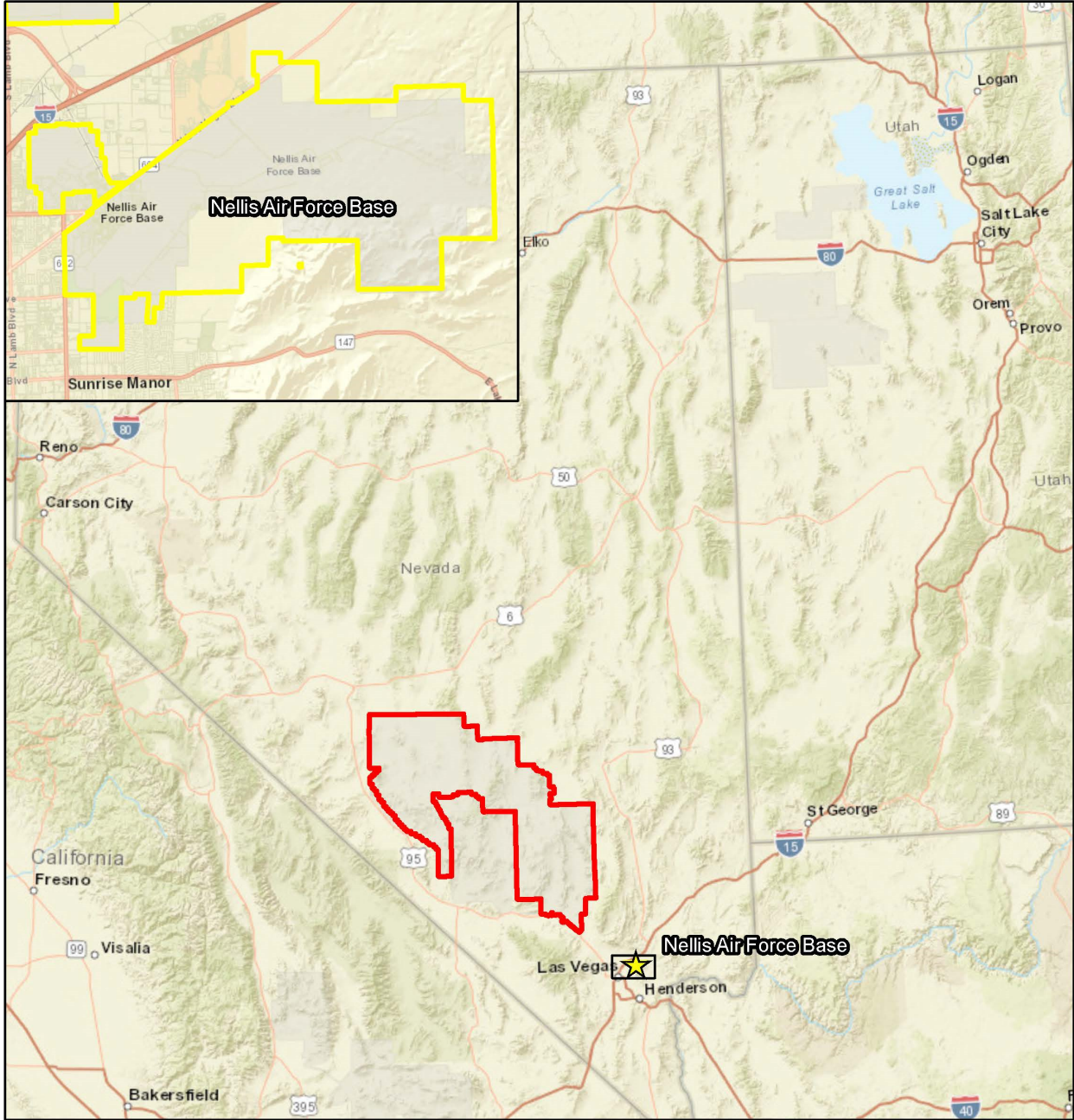
Sincerely,






ERIC S. ROSENLOF, Lt Col, USAF  
Commander

Attachment:  
Project Location Map

ATTACHMENT 1 – PROJECT LOCATION MAP



**FIGURE 1-1**  
Regional Overview

-  Sites
-  Installation Boundary
-  Nevada Test and Training Range



0 12.5 25 50 75 100 125 Mile

Imagery: ESRI, 2021  
Coordinate System: NAD 83 UTM Zone 14N





**APPENDIX B.  
AIR CONFORMITY APPLICABILITY MODEL ANALYSIS**

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# AIR CONFORMITY APPLICABILITY MODEL REPORT RECORD OF CONFORMITY ANALYSIS (ROCA)

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform a net change in emissions analysis to assess the potential air quality impact/s associated with the action. The analysis was performed in accordance with the Air Force Manual 32-7002, *Environmental Compliance and Pollution Prevention*; the *Environmental Impact Analysis Process* (EIAP, 32 CFR 989); the *General Conformity Rule* (GCR, 40 CFR 93 Subpart B); and the *USAF Air Quality Environmental Impact Analysis Process (EIAP) Guide*. This report provides a summary of the ACAM analysis.

**a. Action Location:**

**Base:** NELLIS AFB  
**State:** Nevada  
**County(s):** Clark  
**Regulatory Area(s):** Las Vegas, NV; Clark Co, NV

**b. Action Title:** Nellis AFB and the NTTR INRMP

**c. Project Number/s (if applicable):**

**d. Projected Action Start Date:** 1 / 2025

**e. Action Description:**

The Proposed Action includes natural resource management projects on Nellis AFB and the NTTR that align with established INRMP goals and objectives. These projects would include, but not be limited to, conducting survey work for identified taxa; installing and maintaining equipment such as cameras and acoustic monitors; treating invasive species with approved herbicides; monitoring water parameters; trapping and releasing species according to state and federal permit requirements; conducting habitat restoration projects for the benefit of special-status species; installing and monitoring exclusionary fences around sensitive areas; maintaining permits for flight safety; conducting hazardous fuel reduction projects to reduce the threats of wildland fire; updating the Natural Resources Management Database to inform management decisions; and conducting educational outreach.

The Nellis Natural Resources Program has established long-term goals, objectives, and projects for the management and protection of natural resource assets integral to carrying out the military mission. The proposed INRMP projects are categorized under these goals (listed below), each with a set of objectives and list of projects that support their achievement.

As a result of being in two distinct air quality control regions, the projects within the NTTR are being analyzed separate from the projects within Nellis AFB. This analysis is for the projects within Nellis AFB within the Las Vegas Intrastate Air Quality Control Region (LVIAQCR) (40 CFR § 81.80).

**f. Point of Contact:**

**Name:** J. Michael Nied  
**Title:** Environmental Engineer/ Project Manager  
**Organization:** Environmental Assessment Services, LLC  
**Email:** mnied@easbio.com  
**Phone Number:** 608.797.1326

**2. Analysis:** Total reasonably foreseeable net change in direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" (highest annual emissions) and "steady state" (no net gain/loss in emission stabilized and the action is fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

# AIR CONFORMITY APPLICABILITY MODEL REPORT RECORD OF CONFORMITY ANALYSIS (ROCA)

All emissions estimates were derived from various sources using the methods, algorithms, and emission factors from the most current *Air Emissions Guide for Air Force Stationary Sources*, *Air Emissions Guide for Air Force Mobile Sources*, and/or *Air Emissions Guide for Air Force Transitory Sources*. For greater details of this analysis, refer to the Detail ACAM Report.

  X   applicable  
       not applicable

**Conformity Analysis Summary:**

**2025**

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Las Vegas, NV			
VOC	0.610		
NOx	5.506		
CO	5.290	100	No
SOx	0.011		
PM 10	520.305		
PM 2.5	0.215		
Pb	0.000		
NH3	0.002		
Las Vegas, NV			
VOC	0.610	100	No
NOx	5.506	100	No
CO	5.290		
SOx	0.011		
PM 10	520.305		
PM 2.5	0.215		
Pb	0.000		
NH3	0.002		
Clark Co, NV			
VOC	0.610		
NOx	5.506		
CO	5.290		
SOx	0.011		
PM 10	520.305	100	Yes
PM 2.5	0.215		
Pb	0.000		
NH3	0.002		
Las Vegas, NV			
VOC	0.610	100	No
NOx	5.506	100	No
CO	5.290		
SOx	0.011		
PM 10	520.305		
PM 2.5	0.215		
Pb	0.000		
NH3	0.002		



# AIR CONFORMITY APPLICABILITY MODEL REPORT RECORD OF CONFORMITY ANALYSIS (ROCA)

**2026**

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Las Vegas, NV			
VOC	0.580		
NOx	5.049		
CO	5.129	100	No
SOx	0.011		
PM 10	520.284		
PM 2.5	0.196		
Pb	0.000		
NH3	0.002		
Las Vegas, NV			
VOC	0.580	100	No
NOx	5.049	100	No
CO	5.129		
SOx	0.011		
PM 10	520.284		
PM 2.5	0.196		
Pb	0.000		
NH3	0.002		
Clark Co, NV			
VOC	0.580		
NOx	5.049		
CO	5.129		
SOx	0.011		
PM 10	520.284	100	Yes
PM 2.5	0.196		
Pb	0.000		
NH3	0.002		
Las Vegas, NV			
VOC	0.580	100	No
NOx	5.049	100	No
CO	5.129		
SOx	0.011		
PM 10	520.284		
PM 2.5	0.196		
Pb	0.000		
NH3	0.002		

# AIR CONFORMITY APPLICABILITY MODEL REPORT RECORD OF CONFORMITY ANALYSIS (ROCA)

**2027**

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Las Vegas, NV			
VOC	0.560		
NOx	4.735		
CO	5.059	100	No
SOx	0.011		
PM 10	520.269		
PM 2.5	0.182		
Pb	0.000		
NH3	0.002		
Las Vegas, NV			
VOC	0.560	100	No
NOx	4.735	100	No
CO	5.059		
SOx	0.011		
PM 10	520.269		
PM 2.5	0.182		
Pb	0.000		
NH3	0.002		
Clark Co, NV			
VOC	0.560		
NOx	4.735		
CO	5.059		
SOx	0.011		
PM 10	520.269	100	Yes
PM 2.5	0.182		
Pb	0.000		
NH3	0.002		
Las Vegas, NV			
VOC	0.560	100	No
NOx	4.735	100	No
CO	5.059		
SOx	0.011		
PM 10	520.269		
PM 2.5	0.182		
Pb	0.000		
NH3	0.002		

# AIR CONFORMITY APPLICABILITY MODEL REPORT RECORD OF CONFORMITY ANALYSIS (ROCA)

**2028**

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Las Vegas, NV			
VOC	0.547		
NOx	4.505		
CO	5.034	100	No
SOx	0.011		
PM 10	520.259		
PM 2.5	0.172		
Pb	0.000		
NH3	0.002		
Las Vegas, NV			
VOC	0.547	100	No
NOx	4.505	100	No
CO	5.034		
SOx	0.011		
PM 10	520.259		
PM 2.5	0.172		
Pb	0.000		
NH3	0.002		
Clark Co, NV			
VOC	0.547		
NOx	4.505		
CO	5.034		
SOx	0.011		
PM 10	520.259	100	Yes
PM 2.5	0.172		
Pb	0.000		
NH3	0.002		
Las Vegas, NV			
VOC	0.547	100	No
NOx	4.505	100	No
CO	5.034		
SOx	0.011		
PM 10	520.259		
PM 2.5	0.172		
Pb	0.000		
NH3	0.002		

# AIR CONFORMITY APPLICABILITY MODEL REPORT RECORD OF CONFORMITY ANALYSIS (ROCA)

**2029**

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Las Vegas, NV			
VOC	0.532		
NOx	4.206		
CO	4.975	100	No
SOx	0.011		
PM 10	520.246		
PM 2.5	0.161		
Pb	0.000		
NH3	0.002		
Las Vegas, NV			
VOC	0.532	100	No
NOx	4.206	100	No
CO	4.975		
SOx	0.011		
PM 10	520.246		
PM 2.5	0.161		
Pb	0.000		
NH3	0.002		
Clark Co, NV			
VOC	0.532		
NOx	4.206		
CO	4.975		
SOx	0.011		
PM 10	520.246	100	Yes
PM 2.5	0.161		
Pb	0.000		
NH3	0.002		
Las Vegas, NV			
VOC	0.532	100	No
NOx	4.206	100	No
CO	4.975		
SOx	0.011		
PM 10	520.246		
PM 2.5	0.161		
Pb	0.000		
NH3	0.002		

# AIR CONFORMITY APPLICABILITY MODEL REPORT RECORD OF CONFORMITY ANALYSIS (ROCA)

**2030 - (Steady State)**

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
Las Vegas, NV			
VOC	0.000		
NOx	0.000		
CO	0.000	100	No
SOx	0.000		
PM 10	0.000		
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		
Las Vegas, NV			
VOC	0.000	100	No
NOx	0.000	100	No
CO	0.000		
SOx	0.000		
PM 10	0.000		
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		
Clark Co, NV			
VOC	0.000		
NOx	0.000		
CO	0.000		
SOx	0.000		
PM 10	0.000	100	No
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		
Las Vegas, NV			
VOC	0.000	100	No
NOx	0.000	100	No
CO	0.000		
SOx	0.000		
PM 10	0.000		
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		

# AIR CONFORMITY APPLICABILITY MODEL REPORT RECORD OF CONFORMITY ANALYSIS (ROCA)

The Criteria Pollutants (or their precursors) with a General Conformity threshold listed in the table above are pollutants within one or more designated nonattainment or maintenance area/s for the associated National Ambient Air Quality Standard (NAAQS). These pollutants are driving this GCR Applicability Analysis. Pollutants exceeding the GCR thresholds must be further evaluated potentially through a GCR Determination.

The pollutants without a General Conformity threshold are pollutants only within areas designated attainment for the associated NAAQS. These pollutants have an insignificance indicator for VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM 10, PM 2.5, and NH<sub>3</sub> of 250 ton/yr (Prevention of Significant Deterioration major source threshold) and 25 ton/yr for Pb (GCR de minimis value). Pollutants below their insignificance indicators are at rates so insignificant that they will not cause or contribute to an exceedance of one or more NAAQSs. These indicators do not define a significant impact; however, they do provide a threshold to identify actions that are insignificant. Refer to the *Level II, Air Quality Quantitative Assessment Insignificance Indicators* for further details.

Some annual net change in estimated emissions associated with this action are above the GCR threshold values established at 40 CFR 93.153 (b); therefore, the requirements of the GCR are applicable and further evaluation is required (potentially through a GCR Determination).

J. Michael Nied, Environmental Engineer/ Project Manager

Sep 26 2023

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**Name, Title**

**Date**

**APPENDIX C.  
ANALYSIS OF THREATENED, ENDANGERED, AND SENSITIVE SPECIES KNOWN  
OR HAVING THE POTENTIAL TO OCCUR ON NAFB AND THE NTTR**

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Common Name	Scientific Name	Federal Status	State Status	Documents on Nellis AFB or NTRR?
<b>Amphibians</b>				
Amargosa Toad	<i>Anaxyrus nelsoni</i>	Sensitive	SGCN, Protected, S2	No
Northern Leopard Frog	<i>Lithobates pipiens</i>	Sensitive	SGCN, Protected, S2S3	No
<b>Reptiles</b>				
Mojave Shovel-nosed Snake	<i>Chionactis occipitalis</i>	Sensitive	SGCN, S4	Yes
Western Banded Gecko	<i>Coleonyx variegatus</i>	No Status	SGCN, S4	Yes
Sidewinder	<i>Crotalus cerastes</i>	Sensitive	SGCN, S4	Yes
Great Basin Collared Lizard	<i>Crotaphytus bicinctores</i>	Sensitive	SGCN, S4	Yes
Desert Iguana	<i>Dipsosaurus dorsalis</i>	Sensitive	SGCN, S3	Yes
Long-nosed Leopard Lizard	<i>Gambelia wislizenii</i>	Sensitive	SGCN, S4	Yes
Desert Tortoise	<i>Gopherus agassizii</i>	Threatened	SGCN, Threatened, S2S3	Yes
Banded Gila Monster	<i>Heloderma suspectum cinctum</i>	Sensitive	SGCN, Protected, S2	Yes
Sonoran Mountain Kingsnake	<i>Lampropeltis pyromelana</i>	Sensitive	SGCN, Protected, S2	No
Rosy Boa	<i>Lichanura orcutti</i>	Sensitive	SGCN, Protected, SNR	No
Desert Horned Lizard	<i>Phrynosoma platyrhinos</i>	Sensitive	SGCN, S4	Yes
Western Red-tailed Skink	<i>Plestiodon gilberti rubricaudatus</i>	Sensitive	SGCN, S2S3	Yes
Common Chuckwalla	<i>Sauromalus ater</i>	Sensitive	SGCN, S3	
Long-tailed Brush Lizard	<i>Urosaurus graciosus</i>	No Status	SGCN, S4	Yes
<b>Birds</b>				
Northern Goshawk	<i>Accipiter gentilis</i>	Sensitive, MBTA	SGCN, Sensitive, S3	Yes
Golden Eagle	<i>Aquila chrysaetos</i>	Sensitive, PIF, MBTA, BGEPA	SGCN, Sensitive, S4	Yes
Western Burrowing Owl	<i>Athene cunicularia hypugaea</i>	Sensitive, PIF, MBTA, BCC	SGCN, S3B	Yes
Ferruginous Hawk	<i>Buteo regalis</i>	Sensitive, BCC, MBTA	SGCN, S3B, S4N	Yes
Swainson's Hawk	<i>Buteo swainsoni</i>	Sensitive, MBTA	SGCN, S3B	Yes
Greater Sage-grouse	<i>Centrocercus urophasianus</i>	Sensitive, PIF	SGCN, Game Species, S3	Yes
Western Snowy Plover, interior population	<i>Charadrius alexandrinus nivosus</i>	Sensitive, BCC, MBTA	SGCN, S3B	No
Peregrine Falcon	<i>Falco peregrinus</i>	Sensitive, MBTA	Sensitive, Endangered, S3	Yes
Pinyon Jay	<i>Gymnorhinus cyanocephalus</i>	Sensitive, PIF, BCC, MBTA	SGCN, S3	Yes
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Sensitive, MBTA, BGEPA	SGCN, Sensitive, Endangered, S2B, S4N	No
Loggerhead Shrike	<i>Lanius ludovicianus</i>	Sensitive, PIF, MBTA	SGCN, Sensitive, S3	Yes

Common Name	Scientific Name	Federal Status	State Status	Documents on Nellis AFB or NTTR?
Black Rosy-finch	<i>Leucosticte atrata</i>	Sensitive, BCC, MBTA	SGCN, S2	No
Lewis's Woodpecker	<i>Melanerpes lewis</i>	Sensitive, PIF, BCC, MBTA	SGCN, S2B	Yes
Sage Thrasher	<i>Oreoscoptes montanus</i>	Sensitive, BCC, MBTA	SGCN, Sensitive, S4B	Yes
Brewer's Sparrow	<i>Spizella breweri</i>	Sensitive, MBTA	SGCN, Sensitive, S3B	Yes
Bendire's Thrasher	<i>Toxostoma bendirei</i>	Sensitive, PIF, BCC, MBTA	SGCN, S1B	No
LeConte's Thrasher	<i>Toxostoma lecontei</i>	Sensitive, PIF, BCC, MBTA	SGCN, S2	Yes
<b>Mammals</b>				
Pallid Bat	<i>Antrozous pallidus</i>	Sensitive	Protected, S3	Yes
Spotted Bat	<i>Euderma maculatum</i>	Sensitive	SGCN, Threatened, S2	Yes
Western Mastiff Bat	<i>Eumops perotis</i>	Sensitive	Sensitive, S1	Yes
Allen's Big-eared Bat or Allen's Lappet-eared Bat	<i>Idionycteris phyllotis</i>	Sensitive	SGCN, Protected, S1	No
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	Sensitive	SGCN*, Protected*, S3	Yes
Western Red Bat	<i>Lasiurus blossevillii</i>	Sensitive	SGCN, Sensitive, S2	Yes
Hoary Bat	<i>Lasiurus cinereus</i>	Sensitive	SGCN, Protected*, S2S3	Yes
Western Yellow Bat	<i>Lasiurus xanthinus</i>	No Status	SGCN, Protected*, S1	
California Leaf-nosed Bat	<i>Macrotis californicus</i>	Sensitive	SGCN, Protected, S2	Yes
California Myotis	<i>Myotis californicus</i>	Sensitive	Protected*, S3S4	Yes
Western Small-footed Myotis	<i>Myotis ciliolabrum</i>	Sensitive	SGCN, Protected*, S3S4	
Long-eared Myotis	<i>Myotis evotis</i>	Sensitive	SGCN, Protected*, S3	Yes
Little Brown Myotis	<i>Myotis lucifugus</i>	Sensitive, C	SGCN, Protected*, S2S3	
Fringed Myotis	<i>Myotis thysanodes</i>	Sensitive	SGCN, Protected, S2	Yes
Southwestern Cave Myotis	<i>Myotis velifer brevis*</i>	No Status	SNR	Yes
Long-legged Myotis	<i>Myotis volans</i>	Sensitive	Protected*, S3S4	Yes
Yuma Myotis	<i>Myotis yumanensis</i>	Sensitive	Protected*, S3	Yes
Dark Kangaroo Mouse	<i>Microdipodops megacephalus</i>	Sensitive	SGCN, Protected, S2	Yes
Pale Kangaroo Mouse	<i>Microdipodops pallidus</i>	Sensitive	SGCN, Protected, S2	Yes
Mule Deer	<i>Odocoileus hemionus</i>	No Status	SGCN, Game Species, S5	
Desert Bighorn Sheep	<i>Ovis canadensis nelsoni</i>	Sensitive	SGCN, Game Species, S4	

Common Name	Scientific Name	Federal Status	State Status	Documents on Nellis AFB or NTTR?
Canyon Bat	<i>Parastrellus hesperus</i>	Sensitive	SGCN, Protected*, S3S4	Yes
Townsend's Big-eared Bat	<i>Placitos townsendii</i>	Sensitive	SGCN, Sensitive, S2	Yes
Brazilian Free-tailed Bat	<i>Tadarida brasiliensis</i>	Sensitive	Protected, S4	Yes
Botta's Pocket Gopher	<i>Thomomys bottae</i>	Sensitive	SGCN, SH	Yes
Desert kangaroo Rat	<i>Dipodomys deserti</i>	No Status	SGCN, S2S3	Yes
Pygmy Rabbit	<i>Brachylagus idahoensis</i>	Sensitive	SGCN, Game Species, S3	Yes
<b>Invertebrates</b>				
Mojave Poppy Bee	<i>Perdita meconis</i>	Sensitive	S1	No
Monarch	<i>Danaus plexippus</i>	Sensitive, C	S3	No
<b>Plants</b>				
Las Vegas Bearpoppy	<i>Arctomecon californica</i>	Sensitive	Critically Endangered, S3	Yes
Las Vegas Buckwheat	<i>Eriogonum corymbosum</i> var. <i>nilesii</i>	Sensitive	S2	Yes
White Bearpoppy	<i>Arctomecon merriamii</i>	Sensitive	S3	Yes
Threecorner Milkvetch or Geyer's Milkvetch	<i>Astragalus geyeri</i> var. <i>triquetrus</i>	Sensitive, C	Critically Endangered, S2S3	Yes
Ash Meadow Milkvetch	<i>Astragalus phoenix</i>	Sensitive, LT	Critically Endangered, S1	Yes*
Ackerman Milkvetch	<i>Astragalus ackermanii</i>	No Status	S2	Yes
Nye Milkvetch	<i>Astragalus nyensis</i>	No Status	S3	Yes
Gilman Milkvetch	<i>Astragalus gilmanii</i>	Sensitive	S1	Yes*
Inyo Milkvetch	<i>Astragalus inyoensis</i>	No Status	S1	Yes*
Clokey Eggvetch	<i>Astragalus oophorus</i> var. <i>clokeyanus</i>	No Status	S2	Yes
Egg Milkvetch	<i>Astragalus oophorus</i> var. <i>oophorus</i>	No Status	SNR	Yes
Desert Candle	<i>Caulanthus inflatus</i>	No Status	SNR	Yes
Spring-Loving Centaury	<i>Centaureum namophilum</i>	Sensitive, LT	Critically Endangered, S1	Yes*
Sticky Buckwheat	<i>Eriogonum viscidulum</i>	Sensitive	Critically Endangered, S2	Yes*
Remote Rabbitbrush	<i>Chrysothamnus eremobius</i>	No Status	S1	Yes*
Sunnyside Green Gentian or Sunnyside Frasera	<i>Frasera gypsicola</i>	Sensitive	Critically Endangered, S2	Yes*
Gilman's Springparsely	<i>Cymopterus gilmanii</i>	No Status	S2S3	Yes
Death Valley Jointfir	<i>Ephedra funerea</i>	No Status	S2	Yes
Antelope Canyon Goldenbush	<i>Ericameria cervina</i>	Sensitive	S1	Yes*
West Humboldt Buckwheat	<i>Eriogonum anemophilum</i>	Sensitive	S1	Yes
Kingston Mountains Bedstraw	<i>Galium hilendiae</i> ssp. <i>kingstonense</i>	No Status	S1	Yes
Unusual Catseye or Las Vegas Cryptantha	<i>Cryptantha insolita</i>	No Status	Critically Endangered, SH	Yes*

Common Name	Scientific Name	Federal Status	State Status	Documents on Nellis AFB or NTTR?
Armored Hedgehog Cactus	<i>Echinocereus engelmannii</i> var. <i>armatus</i>	No Status	S1, CY	Yes*
Ash Meadows Sunray	<i>Enceliopsis nudicaulis</i> var. <i>corrugata</i>	Sensitive, LT	Critically Endangered, S1	Yes*
Sticky Buckwheat	<i>Eriogonum viscidulum</i>	Sensitive	Critically Endangered, S2	Yes
Sunnyside Green Gentian or Sunnyside Frasera	<i>Frasera gypsicola</i>	Sensitive	Critically Endangered, S2	Yes*
Ash Meadows Gumplant	<i>Grindelia fraxinopratensis</i>	Sensitive, LT	Critically Endangered, S1	Yes*
Ash Meadows Mousetails or Ash Meadows Ivesia	<i>Ivesia kingii</i> var. <i>eremica</i>	Sensitive, LT	Critically Endangered, S1	Yes*
Owens Valley Beardstongue	<i>Penstemon confusus</i>	No Status	SNR	Yes
Ash Meadows Blazingstar	<i>Mentzelia leucophylla</i>	Sensitive, LT	Critically Endangered, S1	Yes*
Cliff Needlegrass	<i>Piptatherum shoshoneanum</i>	No Status	S1	Yes
Burrograss	<i>Scleropogon brevifolius</i>	No Status	S2	Yes
Bashful Beardstongue	<i>Penstemon pudicus</i>	Sensitive	S1	Yes*
San Pedro Matchweed	<i>Xanthocephalum gymnospermoides</i>	No Status	SNR	Yes
Desert Rockdaisy	<i>Perityle intricata</i>	No Status	S3	Yes
Sagebrush Cholla	<i>Grusonia pulchella</i>	No Status	S3, CY	Yes
Blue Diamond Cholla	<i>Opuntia whipplei</i> var. <i>multigeniculata</i>	Sensitive	Critically Endangered, S2	Yes*
Williams Combleaf or Washoe Combleaf	<i>Polyctenium williamsiae</i>	Sensitive	Critically Endangered, S2	Yes*

Federal Status: LT = Listed Threatened, LE = Listed Endangered, C = Candidate for Federal Listing, Sensitive = BLM Sensitive Species, BCC = USFWS Birds of Conservation Concern, PIF = DoD Partners in Flight Mission Sensitive Species  
 State Status: S1 = Critically Imperiled, S2 = Imperiled, S3 = Vulnerable, SB = Breeding Population, SGCN = Species of Greatest Conservation Need, NAC Listing = (Game Species, Protected, Threatened, Endangered, Critically Endangered), SNR = No Status Rank